SECTION 28 25 00

VIDEO SURVEILLANCE POSITIONING EQUIPMENT

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* StrongPoles; Security camera poles and accessories.
This section is based on the products of StrongPoles, which is located at:203 N. Elm St.Kemp, TX 75143Toll Free Tel: 844-669-3537Tel: 903-498-0980Fax: 844-319-3025Email: [request info (sales@strongpoles.com)](https://arcat.com/rfi?action=email&company=StrongPoles&message=RE%253A%2520Spec%2520Question%2520(13700spl)%253A%2520&coid=53639&spec=13700spl&rep=&fax=844-319-3025)
Web: <https://www.strongpoles.com>
 [ [Click Here](https://arcat.com/company/strongpoles-53639) ] for additional information.
StrongPoles is the manufacture of the world's only engineered security camera poles. StrongPoles products are built strong to provide a sturdy, steady security camera mounting platform. Simply put, StrongPoles builds the strongest security camera poles in the world! Not only are StrongPoles rigid, the SteadyMax actively fights against vibration and shakes with its Vibration Suppression Systems.
StrongPoles was started by security equipment manufacturers who identified the need of purpose-designed engineered security mounting solutions. For the past 7 years, StrongPoles has seen steady growth as architects, engineers, and security professionals recognize that nothing beats StongPoles!

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Security Camera Poles:
			1. SteadyMax poles.
			2. Square, 4 inch poles.
			3. Square Direct Bury poles.
		2. Building mounts.
			1. HD corner mount.
			2. HD parapet wall camera mount.
			3. Arm with dual gussets, 2 foot.
			4. Fly-out mount.
			5. Fly-over mount.
			6. Parapet PTZ camera mount.
			7. Reacher mount, 5 foot.
			8. Camera mounts with built-in junction box.
			9. Wall mount bracket.
			10. Surface mount pole and plate.
		3. Keypad and Reader Pedestals:
			1. Dual height keypad pedestals.
			2. Touch-less reader pedestals.
			3. Gooseneck direct-burial keypad pedestals.
			4. Heavy duty architectural keypad and reader pedestals.
			5. Gooseneck keypad and reader pedestals.
		4. LED Lighting:
			1. Select-A-Watt LED area lights.
			2. LED area lights.
		5. Accessories.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 03 30 00 - Cast-in-Place Concrete.
		2. Section 07 84 13 - Penetration Firestopping.
		3. Section 26 05 48 - Vibration and Seismic Controls for Electrical Systems.
		4. Section 27 05 29 - Hangers and Supports for Communications Systems.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. American Association of State Highway and Transportation Officials (AASHTO):
			1. AASHTO LTS - Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals 2013 (Revised 2019).
		2. Florida Building Code 2017.
		3. Institute of Electrical and Electronics Engineers (IEEE):
			1. IEEE C2 - National Electrical Safety Code 2017.
		4. National Electrical Contractors Association (NECA):
			1. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.
			2. NECA 303 - Standard for Installing and Maintaining Closed-Circuit Television (CCTV) Systems 2019.
		5. National Electrical Manufacturers Association (NEMA):
			1. NEMA/UL Enclosure Ratings.
		6. Underwriters Laboratories (UL).
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data:
			1. Manufacturer's data sheets on each product to be used.
			2. Preparation instructions and recommendations.
			3. Storage and handling requirements and recommendations.
			4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern and color.
		2. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
		2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
		3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Retain mock-up during construction as a standard for comparison with completed work.
			4. Do not alter or remove mock-up until work is completed or removal is authorized.
	1. PRE-INSTALLATION CONFERENCE
		1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
		2. Protect from damage due to weather, excessive temperature, and construction operations.
	3. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
	4. WARRANTY
		1. Manufacturer's standard limited warranty unless indicated otherwise.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: StrongPoles, which is located at:203 N. Elm St.Kemp, TX 75143Toll Free Tel: 844-669-3537Tel: 903-498-0980Fax: 844-319-3025Email: [request info (sales@strongpoles.com)](https://arcat.com/rfi?action=email&company=StrongPoles&message=RE%253A%2520Spec%2520Question%2520(13700spl)%253A%2520&coid=53639&spec=13700spl&rep=&fax=844-319-3025);Web: <https://www.strongpoles.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Delete articles not required.

* 1. SECURITY CAMERA POLES
		1. Performance Requirements:
			1. Standards Compliance:
				1. AASHTO LTS.
			2. Wind Load: Include effective projected area (EPA) of cameras, supports, and accessories to be installed.

\*\* NOTE TO SPECIFIER \*\* SteadyMaxFL is designed for wind speeds of 190 mph. SteadyMax is designed for wind speeds of 150 mph. Delete design wind speeds not required.

* + - * 1. Design Wind Speed: 190 mph (306 kph).
				2. Design Wind Speed: 150 mph (241 kph).
				3. Design Wind Speed: As indicated on Drawings.
				4. Design Wind Speed: As required by Code.
				5. Design Wind Speed: \_\_\_\_ mph (\_\_\_\_ kph).
				6. Gust Factor: 1.3.
			1. Dead Load: Include weight of proposed cameras, supports, and accessories.
		1. General:
			1. Provide poles suitable for cameras, supports, and accessories to be installed.
			2. Included Parts:
				1. Hand hole at 18 inches (457 mm) from base.

\*\* NOTE TO SPECIFIER \*\* Second hand hole is optional, delete if not required.

* + - * 1. Hand hole at 48 inches (1219 mm) from base.
				2. Ground lug, accessible from handhole.
				3. Top cap.
				4. Anchor bolts with leveling nuts or leveling shims.
				5. Anchor base cover.
				6. Pole-top tenon, size as required for installed camera/bracket.
				7. Cables as indicated or as required for connections between system components.
				8. Accessory racks and cabinets as indicated or as required for equipment mounting.
			1. Mounting: Install on concrete foundation, unless otherwise indicated.

\*\* NOTE TO SPECIFIER \*\* Delete product options not required.

* + 1. Basis of Design: SteadyMax Camera Poles; as manufactured by StrongPoles, LLC.

\*\* NOTE TO SPECIFIER \*\* Delete pole configuration options not required.

* + - 1. Pole Configuration: As indicated on Drawings.
			2. Pole Configuration:
				1. Shape: Round.

\*\* NOTE TO SPECIFIER \*\* Delete diameter option not required.

Diameter: 6 inches (152 mm).

Diameter: 8 inches (203 mm).

\*\* NOTE TO SPECIFIER \*\* Delete shape option not required.

* + - * 1. Tapered.
				2. Straight, not tapered.

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 12 feet (3658 mm).
				2. Height: 16 feet (4877 mm).
				3. Height: 20 feet (6096 mm).
				4. Height: 25 feet (7620 mm).
				5. Height: \_\_\_\_\_.
			1. Features:
				1. Factory installed vibration suppression system.
				2. Maximum movement of 3 percent.
			2. Material: 6063-T6 aluminum.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: White powder coat.
			2. Finish: Dark bronze powder coat.
		1. Basis of Design: SteadyMaxFL Camera Poles; as manufactured by StrongPoles, LLC.
			1. Standards Compliance:
				1. Florida Building Code 2017.

\*\* NOTE TO SPECIFIER \*\* Delete pole configuration options not required.

* + - 1. Pole Configuration: As indicated on Drawings.
			2. Pole Configuration:
				1. Shape: Round.
				2. Diameter: 6 inches (152 mm).
				3. Straight, not tapered.
				4. Height: 12 feet (3658 mm).
			3. Features:
				1. Factory installed vibration suppression system.
				2. Maximum movement of 3 percent.
			4. Material: 6063-T6 aluminum.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: White powder coat.
			2. Finish: Dark bronze powder coat.
		1. Basis of Design: 4 inch Square Camera Poles; as manufactured by StrongPoles, LLC.

\*\* NOTE TO SPECIFIER \*\* Delete pole configuration options not required.

* + - 1. Pole Configuration: As indicated on Drawings.
			2. Pole Configuration:
				1. Shape: Square.
				2. Size: 4 inches (102 mm).
				3. Straight, not tapered.

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Height: 5 feet (1524 mm).
				2. Height: 8 feet (2438 mm).
				3. Height: 12 feet (3658 mm).
				4. Height: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete mounting base option not required.

* + - 1. Mounting Base: Fixed base.
			2. Mounting Base: Tilt over base.

\*\* NOTE TO SPECIFIER \*\* Delete anchor basket options not required.

* + - 1. Anchor Basket: None.
			2. Anchor Basket: Fixed anchor basket.
			3. Anchor Basket: Tilt over anchor basket.

\*\* NOTE TO SPECIFIER \*\* Delete hand hole options not required.

* + - 1. Hand Hole Cover: Blank.
			2. Hand Hole Cover: Single 1 inch (25 mm) hole.
			3. Hand Hole Cover: Two 1 inch (25 mm) holes.
			4. Material: 6005-T5 aluminum.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: White powder coat.
			2. Finish: Dark bronze anodized.
		1. Basis of Design: Square Direct Bury Poles; as manufactured by StrongPoles, LLC.

\*\* NOTE TO SPECIFIER \*\* Delete pole configuration options not required.

* + - 1. Pole Configuration: As indicated on Drawings.
			2. Pole Configuration:
				1. Shape: Square.

\*\* NOTE TO SPECIFIER \*\* Delete size option not required.

* + - * 1. Size: 4 inches (102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

Height: 12 feet (3658 mm), buried 4 feet (1219 mm).

Height: 16 feet (4877 mm), buried 5 feet (1524 mm).

Height: 20 feet (6096 mm), buried 5 feet (1524 mm).

Height: \_\_\_\_\_.

* + - * 1. Size: 5 inches (127 mm).

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

Height: 8 feet (2438 mm), buried 4 feet (1219 mm).

Height: 11 feet (3353 mm), buried 4 feet (1219 mm).

Height: 16 feet (4877 mm), buried 5 feet (1524 mm).

Height: 20 feet (6096 mm), buried 5 feet (1524 mm).

Height: 25 feet (7620 mm), buried 5 feet (1524 mm).

Height: \_\_\_\_\_.

* + - * 1. Straight, not tapered.

\*\* NOTE TO SPECIFIER \*\* Delete anchor basket options not required.

* + - 1. Material: Aluminum.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: White powder coat.
			2. Finish: Dark bronze powder coat.
	1. BUILDING MOUNTS

\*\* NOTE TO SPECIFIER \*\* Delete product options not required.

* + 1. Basis of Design: HD Corner Mount; as manufactured by StrongPoles, LLC.
			1. Description: Mounts to exterior corner of building.
			2. Dimensions: 11 x 9 x 9 inches (279 x 229 x 229 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: HD Parapet Wall Camera Mount; as manufactured by StrongPoles, LLC.
			1. Description: For mounting PTZ security cameras and wireless devices to parapet walls. Mounts to interior of parapet walls.
			2. Dimensions: 62 x 28 x 6 inches (1575 x 711 x 152 mm).
			3. Features:
				1. Folds back to parapet interior to allow easy access to mounted equipment.
				2. Adjustable angle.
			4. Included Options:

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

* + - * 1. Parapet extension.
				2. Twin PTZ adapter.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: 2 Foot Arm with Dual Gussets; as manufactured by StrongPoles, LLC.
			1. Description: Supports any PTZ, camera, or accessory that fits 1-1/2 inch (38 mm) NPT fitting.
			2. Mounting Plate: 3.5 x 6 inches (89 x 162 mm).
			3. Dimensions: 24 x 4 x 6 inches (610 x 102 x 152 mm).

\*\* NOTE TO SPECIFIER \*\* Delete flourish option not required.

* + - 1. Flourish: None.
			2. Flourish: Included.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: Fly-Out Mount; as manufactured by StrongPoles, LLC.
			1. Description: Supports any PTZ, camera, or accessory that fits 1-1/2 inch (38 mm) NPT fitting.
			2. Mounting Plate: 3 x 6 inches (76 x 152 mm).
			3. Dimensions: 36 x 21 x 6 inches (914 x 533 x 152 mm).

\*\* NOTE TO SPECIFIER \*\* Delete wall mount bracket option not required.

* + - 1. Wall Mount Bracket: None.
			2. Wall Mount Bracket: Included.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: Fly-Over Mount; as manufactured by StrongPoles, LLC.
			1. Description: Designed to get structure as far away from the camera as possible, 1-1/2 inch (38 mm) NPT fitting.
			2. Mounting Plate: 3 x 6 inches (76 x 152 mm).
			3. Dimensions: 52 x 28 x 6 inches (1321 x 711 x 152 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: Parapet PTZ Camera Mount; as manufactured by StrongPoles, LLC.
			1. Description: For mounting PTZ security cameras and wireless devices to parapet walls. Mounts to interior of parapet walls.
			2. Dimensions: 52 x 28 x 6 inches (1321 x 711 x 152 mm).
			3. Features:
				1. Folds back to parapet interior to allow easy access to mounted equipment.
				2. Adjustable angle.
			4. Attachments:

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

* + - * 1. Dome camera mount.
				2. Dual dome camera mount.
				3. Twin adapter.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: 5 Foot Reacher Mount; as manufactured by StrongPoles, LLC.
			1. Description: Designed to reach out over a property line or fence.
			2. Dimensions: 65 x 16 x 16 inches (1651 x 406 x 406 mm).

\*\* NOTE TO SPECIFIER \*\* Delete mounting options not required.

* + - 1. Mounting: Pole mount, 6-7 inch (152-178 mm) round.
			2. Mounting: Pole mount, 4 inch (102 mm) square.
			3. Mounting: Pole mount, 5 inch (127 mm) square.
			4. Mounting: Corner mount.
			5. Mounting: Flat mount.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: Camera Mounts with Built-In Junction Box; as manufactured by StrongPoles, LLC.
			1. Description: Provides three different faces for camera mounting.
			2. Dimensions: 14 x 11 x 8 inches (356 x 279 x 203 mm).

\*\* NOTE TO SPECIFIER \*\* Delete mounting options not required.

* + - 1. Mounting: Corner mount.
			2. Mounting: Flat mount.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: Wall Mount Bracket; as manufactured by StrongPoles, LLC.
			1. Description: For mounting 4 inch (102 mm) square poles to wall or parapet.
			2. Dimensions: 13 x 13 x 5 inches (330 x 330 x 127 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: Surface Mount Pole and Plate; as manufactured by StrongPoles, LLC.
			1. Description: For mounting under building eaves or from building faces.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - 1. Length: 15 inches (381 mm).
			2. Length: 30 inches (762 mm).
			3. Length: 48 inches (1219 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
			3. Color: Hammered Black.
	1. KEYPAD AND READER PEDESTALS

\*\* NOTE TO SPECIFIER \*\* Delete product options not required.

* + 1. Basis of Design: Dual Height Keypad Pedestals; as manufactured by StrongPoles, LLC.
			1. Description: Dual height pad mounted pedestal for cars and big trucks.
			2. Dimensions: 79 x 19 x 9 inches (2007 x 483 x 229 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: Touch-Less Reader Pedestals; as manufactured by StrongPoles, LLC.
			1. Description: For mounting single or multiple contact-less card readers, RFID, or reader antennas.
			2. Dimensions: 54 x 9 x 9 inches (1372 x 229 x 229 mm).

\*\* NOTE TO SPECIFIER \*\* Delete top option not required.

* + - 1. Top: Pyramid.
			2. Top: Flat.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: Gooseneck Direct-Burial Keypad Pedestals; as manufactured by StrongPoles, LLC.
			1. Description: Can be buried 2 feet (610 mm).
			2. Dimensions: 70 x 13 x 13 inches (1778 x 330 x 330 mm).
			3. Features:
				1. Anti-turn paddles.
				2. Below ground wire gland.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: Heavy Duty Architectural Keypad and Reader Pedestals; as manufactured by StrongPoles, LLC.
			1. Dimensions: 54 x 19 x 9 inches (1372 x 483 x 229 mm).
			2. Top: Pyramid.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Basis of Design: Gooseneck Keypad and Reader Pedestals; as manufactured by StrongPoles, LLC.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

* + - 1. Model: 36 inch (914 mm) curb-mount.
			2. Model: 42 inch (1067 mm) pad-mount.
			3. Model: 48 inch (1219 mm) pad-mount.
			4. Model: 42 inch (1067 mm) direct burial.
			5. Color: Black hammered.
	1. LED LIGHTING

\*\* NOTE TO SPECIFIER \*\* Delete product options not required.

* + 1. Basis of Design: Select-A-Watt LED Area Light; as manufactured by StrongPoles, LLC.
			1. Compliance: UL Certified.
			2. Description : Switchable LED lights.
			3. Dimensions: 24 x 18 x 8 inches (610 x 457 x 203 mm).
			4. Body Material: Die-cast aluminum.

\*\* NOTE TO SPECIFIER \*\* Delete color temperature options not required.

* + - 1. Color Temperature: 3000K.
			2. Color Temperature: 4000K.
			3. Color Temperature: 5000K.
			4. Color Temperature: 5700K.

\*\* NOTE TO SPECIFIER \*\* Delete optics options not required.

* + - 1. Optics: Type III.
			2. Optics: Type IV.
			3. Optics: Type V.

\*\* NOTE TO SPECIFIER \*\* Delete mounting options not required.

* + - 1. Mounting: Square and round pole mount.
			2. Mounting: Adjustable square and round pole mount.
			3. Mounting: Slip fitter mount.
			4. Mounting: Trunnion mount.
			5. Voltage: AC120-277.

\*\* NOTE TO SPECIFIER \*\* Delete wattage option not required.

* + - 1. Wattage: 80-150W.
			2. Wattage: 240-310W.
			3. Minimum Temperature Rating: Minus 40 degrees F (minus 40 degrees C).
			4. Finish: Dark Bronze.
			5. Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete accessories not required.

* + - * 1. External half glare shield.
				2. External 360 full visor.
				3. Photocell control.
				4. Shorting cap control.
				5. PIR motion sensor control.
				6. Surge protection device.
		1. Basis of Design: LED Area Lights; as manufactured by StrongPoles, LLC.
			1. Compliance: UL Listed.
			2. Dimensions: 20 x 17 x 6 inches (508 x 432 x 152 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color temperature option not required.

* + - 1. Color Temperature: 4000K.
			2. Color Temperature: 5000K.
			3. Optics: Type III.
			4. Voltage: AC120-277.

\*\* NOTE TO SPECIFIER \*\* Delete wattage options not required.

* + - 1. Wattage: 100W.
			2. Wattage: 150W.
			3. Wattage: 200W.
			4. Wattage: 250W.
			5. Wattage: 300W.
	1. ACCESSORIES

\*\* NOTE TO SPECIFIER \*\* Delete accessory options not required.

* + 1. Camera Pole Anchor Basket, 4 inch (102 mm):
			1. Description: For anchoring to a poured concrete foundation.

\*\* NOTE TO SPECIFIER \*\* Delete option not required.

* + - 1. Fixed base anchor basket.
			2. Tilt over anchor basket.
		1. Pole Top Mounting Pedestal:
			1. Dimensions: 13 x 10 x 4 inches (330 x 254 x 102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Antenna Top Mount Mast:
			1. Dimensions: 48 x 4 x 4 inches (1219 x 102 x 102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Antenna Mast for Birdhouse:
			1. Dimensions: 40 x 12 x 12 inches (1016 x 305 x 305 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Side Mount Antenna Mast use:
			1. Dimensions: 36 x 6 x 3 inches (914 x 152 x 76 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Wrap Around Mount:
			1. Dimensions: 16 x 9 x 9 inches (406 x 229 x 229 mm).

\*\* NOTE TO SPECIFIER \*\* Delete mount option not required.

* + - 1. Mount: With RR mount.
			2. Mount: Without RR mount.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Fence-Guard Mount:
			1. Dimensions: 49 x 16 x 16 inches (1245 x 406 x 406 mm).

\*\* NOTE TO SPECIFIER \*\* Delete mount options not required.

* + - 1. Mount: Pole.
			2. Mount: Corner.
			3. Mount: Flat.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Square Pedestal, 8 inch (203 mm) :
			1. Dimensions: 8 x 8 x 8 inches (203 x 203 x 203 mm).

\*\* NOTE TO SPECIFIER \*\* Delete top mount pedestal options not required.

* + - 1. Top Mount Pedestal: Single mount.
			2. Top Mount Pedestal: HD single mount.
			3. Top Mount Pedestal: HD twin mount.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Junction Box, 6 x 6:
			1. Dimensions: 8 x 8 x 8 inches (203 x 203 x 203 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Birdhouse Mounting Platform:

\*\* NOTE TO SPECIFIER \*\* Delete size option not required.

* + - 1. Size: 8 x 10 inches (203 x 254 mm).
			2. Size: 8 x 16 inches (203 x 406 mm).

\*\* NOTE TO SPECIFIER \*\* Delete mount option not required.

* + - 1. Mount: With SP-RR mount.
			2. Mount: Without SP-RR mount.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Light Pole Adapter:
			1. Dimensions: 20 x 20 x 15 inches (508 x 508 x 381 mm).

\*\* NOTE TO SPECIFIER \*\* Delete hardware option not required.

* + - 1. Hardware: Without hardware.
			2. Hardware: With 5/8 inch (16 mm) pole mounting hardware.

\*\* NOTE TO SPECIFIER \*\* Delete shim option not required.

* + - 1. Shims: With shims.
			2. Shims: Without shims.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. SteadyMax Pole Enclosure Mounts:

\*\* NOTE TO SPECIFIER \*\* Delete length option not required.

* + - 1. Mounting Bar Length: 8 inches (203 mm).
			2. Mounting Bar Length: 16 inches (406 mm).

\*\* NOTE TO SPECIFIER \*\* Delete cap options not required.

* + - 1. Caps: White.
			2. Caps: Black.
			3. Caps: None.

\*\* NOTE TO SPECIFIER \*\* Delete clamp size option not required.

* + - 1. Clamp Size: Regular, 4 to 8 inches (102 to 203 mm).
			2. Clamp Size: XL, 4 to 12 inches (102 to 305 mm).
		1. Panoramic Camera Mount:
			1. Dimensions: 11 x 9 x 9 inches (279 x 229 x 229 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. StrongMount-44:
			1. Compliance: NEMA/UL 4X.
			2. Material: Polycarbonate.
			3. Camera Mounting Area: 4 x 4 inches (102 x 102 mm).
			4. Inside Depth: 2-1/2 inches (64 mm).
			5. Finish: High gloss.
		2. StrongMount-55:
			1. Compliance: NEMA/UL 6P.
			2. Material: Polycarbonate.
			3. Camera Mounting Area: 4-3/4 x 4-3/4 inches (121 x 121 mm).
			4. Inside Depth: 3 inches (76 mm).
			5. Finish: High gloss.
		3. StrongMount-66:
			1. Compliance: NEMA/UL 6P.
			2. Material: Polycarbonate.
			3. Camera Mounting Area: 5-3/4 x 5-3/4 inches (146 x 146 mm).
			4. Inside Depth: 3 inches (76 mm).
			5. Finish: High gloss.
		4. StrongMount-86:
			1. Compliance: NEMA/UL 6P.
			2. Material: Polycarbonate.
			3. Camera Mounting Area: 7-3/4 x 5-3/4 inches (197 x 146 mm).
			4. Inside Depth: 3 inches (76 mm).
			5. Finish: High gloss.
		5. StrongMount-98:
			1. Compliance: NEMA/UL 6P.
			2. Material: Polycarbonate.
			3. Camera Mounting Area: 8-1/2 x 7-1/2 inches (216 x 190 mm).
			4. Inside Depth: 2-1/2 inches (64 mm).
			5. Finish: High gloss.
		6. StrongMount-2016:
			1. Compliance: NEMA/UL 6P.
			2. Material: Polycarbonate.
			3. Camera Mounting Area: 20 x 16 inches (508 x 406 mm).
			4. Inside Depth: 8-1/2 inches (216 mm).
			5. Finish: High gloss.
		7. Dome Camera Mount:
			1. Dimensions: 13 x 10 x 4 inches (330 x 254 x 102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Dual Camera Mount with PTZ Adapter:
			1. Dimensions: 12 x 8 x 6 inches (305 x 203 x 152 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Side Mount Platform:
			1. Dimensions: 7 x 7 x 4 inches (178 x 178 x 102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Dual Dome/Bullet Adapter:
			1. Dimensions: 12 x 8 x 6 inches (305 x 203 x 152 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Horizontal Tenon, 6 inch:
			1. Dimensions: 7 x 7 x 4 inches (178 x 178 x 102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Vertical Tenon, 4 inch:
			1. Dimensions: 12 x 7 x 5 inches (305 x 178 x 127 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Twin PTZ Adapter:
			1. Dimensions: 19 x 8 x 3 inches (483 x 203 x 76 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Modular Accessory Platform:
			1. Dimensions: 10 x 10 x 13 inches (254 x 254 x 330 mm).

\*\* NOTE TO SPECIFIER \*\* Delete bottom plate option not required.

* + - 1. Bottom Plate: 1-1/2 inch (38 mm) threaded connector.
			2. Bottom Plate: Blank plate.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Modular Junction Box:

\*\* NOTE TO SPECIFIER \*\* Delete bottom plate option not required.

* + - 1. Bottom Plate: 1-1/2 inch (38 mm) threaded connector.
			2. Bottom Plate: Blank plate.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Junction Box with Side Mounts:
			1. Dimensions: 13 x 10 x 4 inches (330 x 254 x 102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete plate option not required.

* + - 1. Plates: Threaded top and bottom plates.
			2. Plates: Threaded top plate, solid bottom plate.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Pipe Clamp Strong Strut Mounting Bars:

\*\* NOTE TO SPECIFIER \*\* Delete length option not required.

* + - 1. Mounting Bar Length: 8 inches (203 mm).
			2. Mounting Bar Length: 16 inches (406 mm).

\*\* NOTE TO SPECIFIER \*\* Delete cap color options not required.

* + - 1. Cap Color: White.
			2. Cap Color: Black.
			3. Cap Color: None.
		1. Beam Clamp Strong Strut Mounting Bars:

\*\* NOTE TO SPECIFIER \*\* Delete length option not required.

* + - 1. Mounting Bar Length: 8 inches (203 mm).
			2. Mounting Bar Length: 16 inches (406 mm).

\*\* NOTE TO SPECIFIER \*\* Delete cap color options not required.

* + - 1. Cap Color: White.
			2. Cap Color: Black.
			3. Cap Color: None.
		1. Egyptian Style Strong Strut Mounting Bars. :

\*\* NOTE TO SPECIFIER \*\* Delete length option not required.

* + - 1. Mounting Bar Length: 8 inches (203 mm).
			2. Mounting Bar Length: 16 inches (406 mm).

\*\* NOTE TO SPECIFIER \*\* Delete bar option not required.

* + - 1. Bar: Single bar.
			2. Bar: Double bar.

\*\* NOTE TO SPECIFIER \*\* Delete cap color options not required.

* + - 1. Cap Color: White.
			2. Cap Color: Black.
			3. Cap Color: None.
		1. TV Mount Bolts.
		2. TV Mount:
			1. Dimensions: 4 x 4 x 4 inches (102 x 102 x 102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Junction and MAP Hand Hole Gasket:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Junction and MAP 4 x 4 inch Gasket:
			1. Dimensions: 4 x 4 inches (102 x 102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Strong Strut Nut without Spring, 3/8 inch (9.5 mm).
		2. MP810 1.5 inch (38 mm) Cap, Main Holes:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. MP68 1-1/8 inch (29 mm) Cap, Main Holes:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. MP68 Multi-Purpose Hand Hole Cover with 2 Screws:

\*\* NOTE TO SPECIFIER \*\* Delete hole options not required.

* + - 1. Holes: One.
			2. Holes: Two.
			3. Holes: None.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. MAP Caps, Small Holes:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. MAP 1.5 inch (38 mm) Cap, Main Holes:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. MAP Main Body:
			1. Dimensions: 13 x 10 x 4 inches (330 x 254 x 102 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Junction 5/8-11x1 BH Torx Screw.
		2. Junction Hand Hole Cover with 2 Screws:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Junction and MAP Top Plate with 1.5 inch (38 mm) Threaded Cover:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Junction and MAP Full Bottom Plate with 4 Holes:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Junction Main Body:
			1. Dimensions: 4 x 4 x 7 inches (102 x 102 x 178 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Strong Strut - 10 foot (3048 mm):

\*\* NOTE TO SPECIFIER \*\* Delete round option not required.

* + - 1. Round: Short round.
			2. Round: Long round.
		1. TV Suspension Mounts:

\*\* NOTE TO SPECIFIER \*\* Delete option not required.

* + - 1. Type: Single.
			2. Type: Pair.
		1. CamBlox - No Drill Solutions:

\*\* NOTE TO SPECIFIER \*\* Delete type options not required.

* + - 1. Type: Single wide, 8 x 8 x 3 inches (203 x 203 x 76 mm).
			2. Type: Double wide, 8 x 12 x 3 inches (203 x 305 x 76 mm).
			3. Type: Triple wide, 8 x 16 x 3 inches (203 x 406 x 76 mm).

\*\* NOTE TO SPECIFIER \*\* Delete mount options not required.

* + - 1. Mount: Beam clamp.
			2. Mount: Pipe clamp.
			3. Mount: Pendant mount.

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. Multi-Purpose 6 x 8 Box, MP-68:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Egyptian-Style Ceiling Mount:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Black.
		1. Pipe Drop with 1.5 inch to 1.5 inch (38 mm to 38 mm) Double Alum Pipe Coupler with 2 Set Screws:

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

* + - 1. Length: 8 inches (203 mm).
			2. Length: 19-1/2 inches (495 mm).
			3. Length: 4 feet (1219 mm).
			4. Length: 6 feet (1829 mm).
			5. Length: 8 feet (2438mm).
			6. Length: 10 feet (3048 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
		1. NPT Female to Female Coupler, 1-1/2 inch (38 mm):

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: White.
			2. Color: Dark Bronze.
1. EXECUTION
	1. EXAMINATION
		1. Verify that field measurements are as indicated.
		2. Verify that ratings and configurations of system components are consistent with the indicated requirements.
		3. Verify that mounting surfaces are ready to receive system components.
		4. Verify that branch circuit wiring installation is completed, tested, and ready for connection to system where applicable.
		5. Verify that conditions are satisfactory for installation prior to starting work.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
		2. Install video surveillance system in accordance with NECA 1, general workmanship, and NECA 303.
		3. Provide required support and attachment in accordance with Division 26.
		4. Pole-Mounted Cameras:
			1. Maintain the following minimum clearances:
				1. Comply with IEEE C2.
				2. Comply with utility company requirements.
			2. Foundation-Mounted Poles:
				1. Provide cast-in-place concrete foundations for poles as indicated; see Section 03 30 00 - Cast-in-Place Concrete.

Install anchor bolts plumb using template furnished by pole manufacturer.

Position conduits to enter pole shaft.

* + - * 1. Install foundations plumb.
				2. Install poles plumb, using leveling nuts or shims as required to adjust to plumb.
				3. Tighten anchor bolt nuts to manufacturer's recommended torque.
				4. Install nonshrink grout between pole anchor base and concrete foundation, leaving small channel for condensation drainage.
				5. Install anchor base covers or anchor bolt covers as indicated.
			1. Embedded Poles: Install poles plumb.
		1. Provide grounding and bonding in accordance with Division 26.
		2. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 07 84 13 - Penetration Firestopping.
		3. Identify system wiring and components in accordance with Division 26.
	1. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.
	2. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturer's recommendations.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION