SECTION 10 81 13

BIRD CONTROL SYSTEMS

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 \*\* Avian Flyaway, Inc.; bird control or avian averting systems.
This section is based on the products of Avian Flyaway, Inc., which is located at:
661 Justin Rd.
Rockwall, TX 75087-5300
Toll Free Tel: 800-888-0165
Tel: 972-771-6679
Fax: 972-722-0165
Email: [request info (info@avianflyawayinc.com)](https://arcat.com/rfi?action=email&company=Avian%252BFlyaway%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(10290avi)%253A%2520&coid=39868&spec=10290avi&rep=&fax=972-722-0165)
Web: <http://avianflyawayinc.com>
 [ [Click Here](https://arcat.com/company/avian-flyaway-inc-39868) ] for additional information.
Avian Flyaway, Inc.'s mission is to provide superior, permanent, and humane systems for pest bird control.
While being environmentally responsible and presenting the very highest quality of service, Avian's Averting System is the nation's most dependable pest bird control system and provides the best value for the customer
Satisfaction Guaranteed
All of the Avian Flyaway Systems are guaranteed to permanently eliminate nesting and roosting in areas where the systems are installed. Customer satisfaction is paramount; therefore, all installations are guaranteed
Custom Designed and Corporate Installed!

1. GENERAL
	1. SECTION INCLUDES

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

* + 1. Bird Control Systems of the following types:
			1. Electronic avian averting systems.
			2. Low-visibility avian averting systems.
	1. RELATED SECTIONS

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

* + 1. Division 16 - Electrical.
	1. REFERENCES

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

* + 1. Occupational Safety and Health Administration (OSHA).
		2. National Electrical Manufacturers Association (NEMA):
			1. NEMA Ratings for Electrical Enclosures.
		3. Underwriters Laboratories (UL):
			1. UL 69 - Standard for Electric-Fence Controllers.
	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 five 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 on 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 Warranty: Provide manufacturer's standard limited warranty.
			1. U.V. Breakdown Duration: 5 years.
			2. Parts Replacement Duration: 12 years.
			3. Installation Duration: 1 year.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Avian Flyaway, Inc., which is located at:
		661 Justin Rd.
		Rockwall, TX 75087-5300
		Toll Free Tel: 800-888-0165
		Tel: 972-771-6679
		Fax: 972-722-0165
		Email: [request info (info@avianflyawayinc.com)](https://arcat.com/rfi?action=email&company=Avian%252BFlyaway%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(10290avi)%253A%2520&coid=39868&spec=10290avi&rep=&fax=972-722-0165);Web: <http://avianflyawayinc.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 Article if not required.

* 1. ELECTRONIC AVIAN AVERTING SYSTEMS
		1. Performance Requirements:
			1. Standards Compliance:
				1. UL 69.
				2. NEMA Type 3 or 4 weatherproof enclosure.
			2. Include written safety program covering lifts, ladders, OSHA requirements, hazards of working heights.
		2. Basis of Design: AFI Model E 1007; as manufactured by Avian Flyaway, Inc.
			1. Electrical:
				1. Input: 110-120 VAC, 0.035 A, 60 Hz.
				2. Output: Approximately 1.2 kV.
			2. Enclosure:
				1. Size, HxWxD: 8 x 8 x 4 inches (203 x 203 x 102 mm).
				2. Includes lights to signify readiness of system.
			3. High Voltage Cable and Connectors: Stranded copper cable No. 18/2 AWG 2C Flat, 600V, 105 degrees dry, 75 degrees wet.
				1. Water and oil resistant.
				2. Color: Gray.
			4. Ground Wire: Insulated ground wire shall be 18 MTW.

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

* + - * 1. Color: Tan.
				2. Color: Black.
				3. Color: Brown.
			1. Wire Field: Hot wire with ground wire cable shall be hand drawn 316 stainless steel, high tensile strength.

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

* + - * 1. Diameter: 0.03 inch (0.8 mm).
				2. Diameter: As indicated on Drawings.
				3. Diameter: \_\_\_\_\_.

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

* + - 1. Insulators: Polycarbonate, with UL inhibitor.
				1. Shape: L shaped
				2. Size, WxHxThickness: 1.4 x 1.4 x 0.225 inches (36 x 36 x 5.72 mm).
				3. Fastening Holes:

Top: Three, 0.1 inch (2.5 mm).

Bottom: Two, 0.1 inch (2.5 mm) and one 0.25 inch (6.4 mm).

* + - 1. Adhesive Fasten Insulator:
				1. Size, WxLxHxThickness: 3 x 5 x 1.5 x 0.25 inches (76 x 127 x 13 x 6.4 mm).
				2. Top Holes: Three, 0.1 inch (2.5 mm).
				3. Bottom Holes: Two, 0.1 inch (2.5 mm).
				4. Base: 10 gluelock holes across the base.
				5. Ridged across the bottom, or finished metal base shaped to surface.
				6. Insulator Material: Clear polycarbonate with UV inhibitor.
				7. Plate Material:

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

Material: Aluminum.

Finish: Kynar 500.

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

Color: To be selected by Architects.

Color: As indicated on Drawings.

Color: \_\_\_\_\_.

Material: Clear polycarbonate with UV inhibitor.

* + - 1. Fasteners: Grade 5 or better, stainless steel.
			2. Washers: 1/4 inch (6.4 mm) flat cut stainless steel or neoprene.
			3. Conduit Straps: Stainless steel.
			4. Anchors: Must be 10-12 x 1 inch (25 mm) blue plastic.
			5. Stainless Steel Springs: Passivated, loops random position.
				1. Outside Diameter: 0.375 inch (9.52 mm).
				2. Wire Diameter: 0.37 inch (9.40 mm).
				3. Maximum Load: 5.8 pounds (2.6 Kg).
				4. Free Length: 1.50 inch (38 mm).
				5. Initial Tension: 0.70 pounds (0.32 Kg).
			6. Warning Decals: In English and Spanish and applied to all windows where electrified wire bird system is on the ledge outside.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. LOW-VISIBILITY AVIAN AVERTING SYSTEMS
		1. Basis of Design: AFI Low Visibility Exclusion; as manufactured by Avian Flyaway, Inc:
			1. Mesh: Manufacturer's standard mesh.

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

* + - * 1. Mesh Size: 3/4 inch (19 mm).
				2. Mesh Size: 1/2 inch (13 mm).
				3. Mesh Size: 3/8 inch (9.5 mm).
			1. Attachment: Manufacturer's standard attachment system.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly constructed and prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Surface shall be thoroughly cleaned and free of bird droppings, nesting materials, rust, peeling paint or other debris.

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

* + 1. Adhesive installs shall follow adhesive manufacturer's guidelines for surface preparation.
		2. Remove or repair article that may damage bird deterrent system after installation, including overhanging foliage, brush and loose parts on the structure.
	1. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
			1. Bird deterrent system shall cover all necessary required areas.
	2. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.
	3. 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