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This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

 Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select or deselect HIDDEN TEXT.

This guide specification covers LiftMaster’s operators for swing, slide, and overhead gates.

The following should be noted in using this specification:

Hypertext links to manufacturer websites are included after manufacturer names to assist in product selection and further research. Hypertext links are shown in blue text, e.g.:

www.acme.com

Optional text requiring a selection by the user is enclosed within brackets and shown in red text, e.g.: Color: [Red.] [Black.]"

Items requiring user input are enclosed within brackets and shown in red text, e.g.: "Section [\_\_ \_\_ \_\_ - \_\_\_\_\_\_\_\_]."

Optional paragraphs are separated by an "OR" statement shown in red text, e.g.:

 \*\*\*\* OR \*\*\*\*

For assistance on the use of the products in this section, contact LiftMaster by calling 800-282-6225 or visit their website at www.LiftMaster.com or visit https://www.liftmaster.com/for-businesses/gate-operators to assist you in editing the below text.

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This specification has been prepared based on SimpleSpecs™ specification templates. The SimpleSpecs™ Master Guide Specification system comprises a full architectural master specification that can be used to specify all project requirements. For additional information on SimpleSpecs™ products visit the ZeroDocs.com website at www.zerodocs.com.

**SECTION 32 31 11 – GATE OPERATORS**

 GENERAL

 SUBMITTALS

 Action Submittals:

 Shop Drawings: Illustrate products, installation, and relationship to adjacent construction.

 Product Data: Manufacturer’s descriptive data and product attributes.

 Closeout Submittals:

 Operation and Maintenance Data.

 QUALITY ASSURANCE

 Installer Qualifications: Firm specializing in work of this Section, with minimum [2] [\_\_] years’ experience.

 WARRANTY

Refer to LiftMaster technical data for warranties available for each operator model.

 Manufacturer’s [2] [5] [7] year warranty against material and manufacturing defects.

 PRODUCTS

 MANUFACTURERS

 Contract Documents are based on products by LiftMaster. [www.LiftMaster.com](http://www.liftmaster.com/)

 Substitutions: [Refer to Division 01.] [Not permitted.]

 MANUFACTURED UNITS

Retain the following for a heavy high cycle type operator for standard lift overhead gates measuring up to 16 feet wide, weighing maximum 1000 pounds. Please refer to LiftMaster Technical literature for additional product details.

 Door Operators:

 Model: HCTDCUL.

 Operation: Gear reduced.

 Rated duty cycle: Continuous.

 Operator speed: Adjustable, up to 11 inches per second opening speed.

 Automatic closing if door is pushed off closed position.

 Battery backup.

 LED diagnostics display.

* + - 1. Meet UL 325, UL 991, ASTM F2200, and CAS C22.2 No. 247.
			2. Power: 120/230 VAC, single phase.

 Motor: 24 VDC, prewired, listed by Underwriters Laboratories, sized to door conditions.

 Enclosure: NEMA 1.

 Monitoring and controls:

* + - * 1. Internet connectivity: 50 channel FHSS myQ technology.
				2. Control station: [Three push button type] [Three position key operated type] in NEMA [1] [4] [4X] [7/9] enclosure.
				3. Remote controls: [One button DIP.] [Three button DIP.] [Two button rolling code Security+ 2.0.] [Four button rolling code Security+ 2.0.]
				4. Primary entrapment protection: [Photo eyes, rigid housing.] [Photo eyes, flexible housing.] [Retro-reflective sensor system.] [Through-beam photo eyes.]
				5. Secondary entrapment protection: [Photo eyes, rigid housing.] [Photo eyes, flexible housing.] [Retro-reflective sensor system.] [Through-beam photo eyes.]

Following accessories are available as options. Refer to LiftMaster technical literature for assistance in selecting accessories.

* + - 1. Accessories:
				1. Commercial wireless keypad.
				2. Red/green traffic light.
				3. [CAPXLV] [CAPXM] Smart video intercom.
				4. Commercial access control receiver.

 EXECUTION

 INSTALLATION

 Install in accordance with manufacturer’s instructions.

 CLOSEOUT ACTIVITIES

 Test and adjust operators for proper operation.

 Demonstration: Demonstrate operation and programming of operators to Owner.

END OF SECTION