SECTION 28 13 00

ACCESS CONTROLS



Display hidden notes to specifier by using “Tools”/“Options”/“Display”/“Hidden Text”.

\*\* NOTE TO SPECIFIER \*\* LiftMaster; Access Control Systems, Telephone Entry Control Systems. .

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This section is based on the products of The LiftMaster Group, Inc., which is located at:

 300 Windsor Drive

 Oak Brook, IL 60523

 Tel: 800.282.6225

 Email: specs@LiftMaster.com

 Web: LiftMaster.com

 [{click Here} for additional information.](http://www.arcat.com/arcatcos/cos42/arc42485.html?src=spec)

LiftMaster’s full commercial and residential garage door operator/gate operator/access control product lines meet the needs of Architects, Designers, Engineers, and Specifiers in any design or conceptual plan, while offering 100 percent compliance with UL 325-2010 safety and construction codes.  Our entire product line also contributes to energy-efficiency credits for LEED green building certification from the U.S. Green Building Council.  LiftMaster is a registered presenter of the American Institute of Architects and is approved to present any of our AIA CEUs at your firm’s location. For learning objectives and to schedule a Lunch & Learn for your firm, please send a request to specs@LiftMaster.com.  Find a complete library of architectural specifications, shop drawings, CSI format 3-part specs, CAD, and BIM product renderings, visit LiftMaster.com.

1. GENERAL
	1. SECTION INCLUDES
		1. Access Control Systems:
			1. Single entry access keypad and proximity reader (LiftMaster Model KPR2000).
	2. RELATED SECTIONS

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

* + 1. Section 03300 - Cast-in-Place Concrete: Concrete mounting pads.
		2. Section 16050 - Basic electrical materials and methods.
		3. Section 16720 - Telephone Entry Systems.
		4. Division 16 - Requirements for electrical connections.
	1. REFERENCES

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

* + 1. Underwriters Laboratories (UL):
			1. UL 325 - Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems.
			2. UL 991 - Standard for Tests for Safety-Related Controls Employing Solid-State Devices.
		2. NFPA 70 - National Electrical Code.
		3. FCC Regulations.
		4. Canadian Department of Communications.
	1. SUBMITTALS
		1. Submit under provisions of Section 01300.

\*\* NOTE TO SPECIFIER \*\* Applicable to Access Control Systems and Telephone Entry Systems. Delete if not required.

* + 1. Submittals:
			1. Manufacturer’s Data: Submit copies of the following:
				1. Product data sheets and system description.
				2. Installation instructions.
				3. Authorized dealer certificate and certified training certificates of installers who will be working on this project.

\*\* NOTE TO SPECIFIER \*\* Applicable to Access Control Systems. Delete if not required.

* + - * 1. Block diagrams.
				2. Equipment list.
			1. Shop Drawings: Submit the following:
				1. Access system layout and locations, including size requirements.
				2. Detailed wiring diagrams of access equipment.
				3. Load calculations of all equipment for proper sizing of electrical provided by the customer and standby emergency generator circuits.

\*\* NOTE TO SPECIFIER \*\* Delete the following paragraph if not required by building owner.

* + - 1. As-Built Drawings: Update shop drawings to create final as-built drawings. Submit 3 copies and digitally in AutoCAD 14 or later format on a CD (3 copies).
			2. Operation Data: Include 3 copies of the software administrator and operator manuals.
			3. Maintenance Data: Include maintenance and repair procedures.
	1. DELIVERY, STORAGE, AND HANDLING
		1. Store products in manufacturer’s unopened packaging with labels intact until ready for installation.
		2. Schedule delivery of parking control equipment so that spaces are sufficiently complete that operators can be installed upon delivery.

\*\* NOTE TO SPECIFIER \*\* Applicable to Access Control Systems. Delete if not required.

* + 1. Owner will provide, on-site, a secure, dry, locked storage area for all equipment delivered under this scope of work.
	1. QUALITY ASSURANCE

\*\* NOTE TO SPECIFIER \*\* Applicable to Access Control Systems and Telephone Entry Systems. Delete if not required.

* + 1. Quality Assurance:
			1. Manufacturer: The access control system shall be from a single-source manufacturer that specializes in telephone entry control systems with a minimum of 5 years of experience.
			2. Installer: Company specializing in access control systems with a minimum of 3 years of experience on systems of similar size and scope. Technicians working on project must have been certified on the hardware and software used for this project.
	1. 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 absolute limits.
	2. WARRANTY
		1. Manufacturer’s Standard Warranty:
			1. Access Control System Warranty: 1 year limited warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: LiftMaster; 300 Windsor Drive, Oak Brook, IL 60523. Toll-Free: 800.282.6225; Email: specs@LiftMaster.com; Web: LiftMaster.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 01600.
	1. ACCESS CONTROL SYSTEMS

\*\* NOTE TO SPECIFIER \*\* Install the LiftMaster Model KPR2000 on a LiftMaster pedestal and pair it with a LiftMaster gate or commercial door operator for a superior total entry control solution. Delete if not required.

* + 1. Single Entry Access Keypad and Proximity Reader: LiftMaster KPR2000 Single Entry Access Control Keypad and Proximity Reader.
			1. Performance:
				1. Operating Voltage: 12V to 24V DC.
				2. Current Draw: 25 mA idle; 60 mA peak.
				3. Proximity Card Reader: HID 26-bit and 30-bit Wiegand format.
				4. Industry standard 125 kHz.
				5. Read Range – Proximity: 1 to 2-1/2 inches (25 mm to 64 mm).
				6. Weatherization: Meets or exceeds IP68.
				7. Operating Temperature: -4 degrees F (-20 degrees C) to 140 degrees F (60 degrees C).
				8. Operating Humidity: 10% to 90% non-condensing.
			2. Construction: Zinc-alloy enclosure.
			3. Dimensions: Surface mount, 5 inches H x 3-1/5 inches W x 1-1/10 inches D (127 mm H x 81 mm W x 28 mm D).
			4. Standard Features:
				1. Stand-alone controller and pass-through mode.
				2. Selectable ASCII keypad mode, or 26-bit card keypad mode.
				3. Controls access for up to 2,000 users (card only, card or PIN, card and PIN).
				4. Integrated alarm buzzer.
				5. Additional alarm output (20A).
				6. Rugged vandal-resistant backlit metal enclosure.
				7. One programmable relay output (2A, form A).
				8. Timed or latch mode to hold door/gate open (1 to 99 second timer).
				9. Supports second keypad configuration for in and out same door or gate.
				10. Block enrollment capability.
				11. Program cards included for rapid programming.
				12. Anti-tamper alarm (1 to 3 minute timer).

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

* + - 1. Accessories:
				1. Low-Profile Access Pedestal (LiftMaster Model PED42).
				2. High-Profile Access Pedestal (LiftMaster Model PED64).
				3. Trim Plate Kit (LiftMaster Model 142A0271) Decorative trim piece for face plate. Powder coated finish-black
				4. 12V DC, 2A Power Supply (LiftMaster Model PS12D2A).
				5. HID 26-Bit Proximity Card, or Key Fob.

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

1. EXECUTION
	1. EXAMINATION AND PREPARATION
		1. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer’s recommended installation tolerances and conditions.
		2. Do not proceed with installation until substrates have been properly prepared and deviations from manufacturer’s recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
		3. Clean surfaces thoroughly prior to installation.
		4. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	2. INSTALLATION
		1. Install in accordance with manufacturer’s instructions including but not limited to the following:
			1. Mount directly to concrete pad, firmly secured, plumb and level.
			2. Mount to mounting pedestal; provide base plate.
			3. Wire in accordance with National Electric Code.
			4. Enclose all splices in easily accessible junction boxes or on terminal boards.
			5. Tag and identify all cable runs in all junction boxes.
		2. Test system and adjust to assure components and accessories are properly connected and in working order.

\*\* NOTE TO SPECIFIER \*\* Applicable to Access Control systems. Delete if not required.

* + 1. Wiring shall be in accordance with national electric codes and manufacturer’s instructions. Make conduit and wiring connections to existing gate and door hardware devices as required.
	1. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch up, repair or replace damaged products before Substantial Completion.
	2. MAINTENANCE
		1. Maintain at 3-month intervals during specified maintenance period, checking external reversing devices once per month.

 END OF SECTION