The Application Form is at the end of this Guidelines document.

Please follow all instructions:

1. Use only the currently posted version of all Forms from:

www.cor.net/fire/permits

- 2. Download this document to your computer;
- 3. Open the downloaded document in Adobe Acrobat Reader DC or other compatible PDF software:
 - o If needed, download and install the free *Adobe Acrobat Reader DC* from: https://get.adobe.com/reader/
 - o Do not complete the Forms in a web browser unless you can digitally sign them there.
- 4. Tab or mouse through the Forms to complete each field all applicable information is required:
 - o Some fields contain a drop-down box from which a selection can be made.
- 5. Digitally sign each Form after completion by clicking on the signature field and following the prompts:
 - o Do not "lock" the document.
- 6. Save the completed *Application Form* and *Signature Form* [if applicable] and email these with supporting documents:
 - o Email to firepermits@cor.gov;
 - o In the subject line, enter:
 - New Permit Application; OR,
 - The existing permit number and type of resubmittal, e.g. 20-023 Resubmittal, in the subject line.



Fire Alarm System Guidelines

Richardson Fire Department 300 N. Greenville Avenue, Richardson, TX 75081

Telephone: 972-744-5750 Fax: 972-744-5796 <u>www.cor.net/fire</u>

[Revised 11/22/2022]
Latest Revisions are in Red.

I. General:

- A. Applications are reviewed in the order submitted;
- B. Permit is required before commencing work unless approved in writing in advance;
- C. Separate Application is required for each address/suite.

II. Permit Required:

- A. A Permit is required where:
 - 1) System is upgraded or replaced, or a new fire alarm system is installed;
 - 2) 5 or more notification appliances;
 - 3) Initiating devices are affected;
 - 4) Communicator/Dialer is affected;
 - 5) Control [FACU, FACP, Power Supply, etc.] replacements/upgrades;
 - 6) Remove/Demolition;
 - 7) Other work not specifically exempt call for information.
- B. Exemptions [No permit, submittals, or acceptance test required. Appropriate Service Tag is required.]:
 - 1) System Repairs;
 - 2) Fewer than 5 notification appliances only are affected;
 - 3) Firmware/software updates, replacing boards of the same model with chips utilizing the same or newer firmware; OR,
 - 4) New supervision of hood suppression system added to existing FACU [FACP] licensee must be present during hood suppression acceptance testing.

III. Fees:

A. Permit fee is 1% of the total cost, with minimum fee of \$60.00 per system.

EXCEPTION: No fee for a demolition permit.

Permit fees can be paid by credit card AFTER Application is approved. Permit fees are not payable in advance.

- B. First review and one re-submittal review are included in permit fee for each subsequent review, a fee of one-half (1/2) the original permit fee, up to \$250, will be assessed;
- C. First inspection and one reinspection are included in permit fee for each subsequent inspection, a fee of \$100 will be assessed;
- D. For construction or operation commenced prior to obtaining a required permit, an amount equal to the original permit fee [prior to exemptions], up to \$2,000, shall be added to the permit fee.

IV. Submittals:

- A. Submit completed Applications and supporting documents to firepermits@cor.gov with "Permit Application" in the subject line:
 - 1) Submit the original design file saved or printed to unprotected .PDF file format. Please do not print and scan the file;
 - 2) Submittals and application should be combined in a single .PDF file;
 - 3) The File should be a maximum size of approximately 10MB at 200 dpi larger files are typically not necessary.
- B. Phased work, where applicable, must be clearly identified;
- C. Construction documents [including "as-builts"] shall be prepared, stamped, signed[†], & dated [after revision], by a licensed design professional OR accompanied by a completed and signed Signature of Licensed Design Professional Form.
 - 1) [†]Approved digital signatures have verifiable "digital certificates". [See "What is a digital signature?"];
 - 2) Pasted/inserted & typed signatures are NOT approved.
- D. Indicate the following:
 - 1) Use(s);
 - 2) Occupancy Classification [Group];
 - 3) Occupant Load;
 - 4) Un-sprinklered, Partially Sprinklered [describe], or Fully Sprinklered?
 - 5) High-rise or not high-rise.
- E. Specify on the plans the correct editions of the applicable Codes and standards, including, but not limited to:
 - 1) 2018 International Fire Code as amended and adopted by The City of Richardson, ord. 4374;
 - 2) 2022 ed. NFPA 72;
 - 3) 2017 ed. NFPA 70/NEC.

- A detailed description of the proposed work shall be on the first page of the plans or in a Scope letter:
- G. Exceptions used in the design must be specifically identified by code or standard, and section number;
- H. Plans shall be drawn in a clearly legible, and professional manner;
- 1/8" = 1'00" 20 ft North shall be indicated, and plans shall be drawn to scale – a graphic scale shall be indicated, e.g.: ▶
- A legend identifying each symbol, component, make/model number & quantity shall be provided; J.
- Unique room names and/or numbers, and room use shall be indicated for every room;
- Show ceiling height(s), wall height(s) & ALL walls, doors, partitions, equipment & structural elements that affect the system;
- M. DO NOT SHOW Systems, furnishings, and other elements that do not affect the system design;
- N. Submit riser diagram for every affected circuit [show each device and setting in each circuit];
- O. Show point-to-point wiring and end-of-line [EOL] resistors;
- P. Submit data-sheets for each affected device & significant component [e.g. FACU [FACP], PS, Detector, A/V, Communicator, etc.];
- Q. Battery/Voltage Drop Calculations:
 - 1) Submit worksheets for each affected power supply, and for each affected circuit. [Manufacturer's original worksheets with pre-entered values are PREFERRED]; AND,
 - Submit documentation of the SOURCE of EVERY SPECIFIC CURRENT DRAW USED IN THE CALCS. EXCEPTION: Values pre-entered into submitted, manufacturer's calculation worksheets:
 - Highlight the SOURCE of EVERY value used in battery/voltage-drop calculations:
 - b) Highlight ONLY the SOURCE of the specific values used;
- FACU [FACP] and/or Communicator Replacement/Upgrade only:
 - A. Submit a Scope Letter with the Permit Application:
 - 1) Indicate the make and model of the original equipment to be replaced/upgraded;
 - 2) Submit Datasheet(s) for new or changed equipment;
 - 3) Indicate the correct editions of the applicable Codes and standards that apply, [See IV E above]:
 - 4) Confirm the APS/PE has validated the new FACU [FACP] battery calculations complete calcs are not required for initial
 - 5) The APS/PE must stamp and sign the Scope Letter to confirm he/she has reviewed the proposed work.
 - B. Submit a basic plan showing the proposed location(s) of new equipment, sprinkler riser room/fire pump, and access doors leading to the equipment;
 - C. Other applicable items in this document apply.
- VI. Demolition of System and/or Related Equipment, only:
 - A. Submit a Scope Letter with the Permit Application:
 - 1) Describe the system/equipment/function(s) to be removed;
 - 2) Describe the reason for the demolition.
 - B. Submit a floor plan showing the approximate location(s) of the equipment/device(s) to be removed;
 - Indicate the following:
 - 1) Use(s):
 - 2) Occupancy Classification [Group];
 - 3) Occupant Load;
 - 4) Un-sprinklered, Partially Sprinklered [describe], or Fully Sprinklered?
 - 5) High-rise or not high-rise.

VII. Notification:

- A. Where egress from occupiable outdoor space(s) requires re-entry into a building, notification is required as if the space is indoors;
- B. Indicate the ambient design sound pressure levels for the specific various coverage areas;
- Visible notification is required in alterations, unless specifically approved;
- D. Spacing in Rooms applies to room walls and room dimensions. E.g. Data halls or warehouses where it might be impractical to provide complete visual notification due to server and cable racks, or shelving;
- E. Audible appliances provided for sleeping areas to awaken occupants shall be low-frequency, including apartment living rooms;
- F. Notification is not required in elevator cars and should be omitted in exit stair enclosures and exit passageways [does not apply to Emergency voice/alarm communication systems].
- G. Occupiable means, "[a] room or enclosed space designed for human occupancy". The following are generally not occupiable and may be exempt from notification:
 - 1) Private garages in apartment complexes when used only for parking of vehicles and storage of personal items;
 - 2) Closets and storage rooms:
 - a) Includes small computer rooms [IDF and MDF] and telecommunications equipment rooms;
 - b) Not including file rooms, data halls, and warehouses;
 - c) If a workspace is present [e.g. desk, table, chairs] notification is required.
 - Walk-in coolers/freezers in restaurants: Public-use "walk-ins" in Groups M and S occupancies are not generally exempt.

- 4) Mechanical Rooms smaller than 1,000 square feet, containing only mechanical equipment, and not "regularly occupied": If a workspace is present [e.g. desk, table, chairs] notification is required.
- 5) Electrical Rooms: If a workspace is present [e.g. desk, table, chairs] notification is required.
- 6) Private offices [not shared]: Small conference tables in private offices do not necessarily trigger visible notification.

VIII. Smoke and Heat Detection:

- Where non-required automatic fire detection is installed, meet the prescriptive spacing requirements of NFPA 72 Chapter 17 and protect, at minimum, common paths of egress throughout the protected premises, OR

- B. Demonstrate how the prescriptive requirements of the Code are met, OR
 C. Submit documentation supporting a Performance-based design in accordance with NFPA 72 section 17.3, OR
 D. IF an existing, previously approved system protects a building with detection only in the means of egress, a design may propose the same method of protection. This must be clearly indicated in the proposed design documentation.
- IX. Duct smoke detectors [when supervised by a fire alarm system]:
 - A. Test duct smoke detectors that use sampling tubes to ensure they will properly sample the airstream in the duct using a method acceptable to the manufacturer or in accordance with their published instructions [See NFPA 72 Table 14.4.3.2]: Exception: Existing duct smoke detectors are presumed to have been properly tested if previously supervised system.
 - BEFORE requesting "final" inspection, email the following [.PDFs ONLY] to firepermits@cor.gov, with the permit # and "close-out documents" in the subject line:
 - 1) A copy of the page(s) of the manufacturer's instructions, describing the test methods and the acceptable differential pressure range; AND,
 - The individual measurements and differential calculations for each unit. The measurements and results must be on letterhead, signed by a representative of the fire alarm or HVAC contractor.
 - C. When CRAH units and CRAC units are provided with factory installed duct smoke detectors that are not required by the 2018 International Mechanical Code, Section 606, Smoke Detection Systems Control, these shall be supervised by a Fire Alarm system ONLY when the following conditions apply:
 - 1) Each component of the duct smoke detection system [smoke detector, smoke detector housing, sampling tubes, etc...] shall be listed for the specific application, and installed and tested according to the smoke detector manufacturer's instructions and NFPA 72 [see above].
 - 2) Duct smoke detectors shall initiate a "supervisory" condition and required smoke control functions, only;
 - D. Duct smoke detectors shall not be supervised by Dedicated Function Fire Alarms such as "Sprinkler Monitoring" systems.

X. Where Sprinklered:

- A. FACU [FACP] shall be located at the fire sprinkler riser unless otherwise approved;
- B. Exterior, weatherproof, "waterflow-only" A/V, min. 75cd, shall identify the primary access to the fire sprinkler riser room:
- "Waterflow-only" alarm shall activate ONLY upon 45-60 seconds of constant waterflow through smallest sprinkler orifice;
- D. "Waterflow" alarms shall be "silenceable";
- E. Knox Box Key Box, with durably labeled keys, is required at the exterior of the Riser Room.

XI. Other System Requirements:

- A. System shall transmit to supervising station the specific initiating device address, location, device type, floor level where applicable, and status, including indication of normal, alarm, trouble, and supervisory status, as appropriate, unless exempt.
- B. One fire alarm control panel is permitted per building, unless specifically approved;
- C. Document cabinet is required for all systems, new and existing;
- D. Elevator Shunt-trip:
 - 1) Automatic Sprinklers shall not be installed in elevator machine rooms, elevator machine spaces, and elevator hoistways, other than pits where such sprinklers would not necessitate shunt trip under any circumstances:
 - Fire Department recommends removal of sprinklers in such spaces, and subsequent removal of shunt-trip functions.

XII. Inspections:

- A. Installers and testing personnel must have a copy of the Plan Review Notes and the approved plans they must comply with all conditions noted therein;
- B. Complete and check all work [pre-test] before requesting inspections all conditions must be met;
- C. Confirm and record audibility levels throughout protected areas using an ANSI S1.4a compliant sound level meter with all walls, ceilings, floors, windows, and doors installed. Use ONLY dBA scale and "fast" time-weighted settings;
- D. Close-out documents must be submitted BEFORE requesting acceptance test [see Review Notes for each permit]. EXCEPTION: When sub-permits are assigned under a main permit number, ALL close-out documents must be submitted before the main permit number will be marked "final".
- E. Permit holder shall request inspections by calling (972) 744-5750. Inspections will be scheduled based on availability;
- Licensed personnel familiar with the specific work under each permit [installer, designer, etc...] must be present during inspection;
- G. Work that is exempt from permitting does not require an inspection or submittals, except as specifically noted, e.g. hood suppression supervision.



Fire Alarm System Construction Permit Application

Richardson Fire Department

300 N. Greenville Avenue, Richardson, TX 75081 Telephone: 972-744-5750 Fax: 972-744-5796 www.cor.net/fire [Revised 11/18/2021]

Fire Department Permit Forms and Information are available at www.cor.net/fire/permits.

APPLICATIONS THAT DO NOT COMPLY WITH THE FOLLOWING MAY NOT BE REVIEWED:

E-mail this COMPLETED Form and supporting .PDFs to firepermits@cor.gov with the original Application/Permit Number [if applicable] and submittal type in the subject line [E.g.: New Permit Application or 20-123 Resubmittal].

- Use ONLY the current version of all Forms;
- Comply with ALL instructions and guidelines;
- Submit a separate Application for each address/suite#;
- Forms must be complete, correct, readable, and signed;

- COMPLETE and CORRECT address must match Building Permit or Certificate of Occupancy;
- Submit ONLY documents applicable to the proposed work

Cubmittal Type [Initial Decubmittal December Madification on As hoults]												
Submittal Type [Initial, Resubmittal, Renewal, Modification, or As-builts]:												
TYPE	SUBMITTAL TYPE:											
_												
"Project" is the property and owner/agent of the property [E.g. Property Manager, Construction Manager, etc]:												
	PROJECT NAME [name of business or property]:	PROJECT CONTACT	PROJECT CONTACT TYPE [Not the Fire Protection Contractor]:									
 _	$\label{eq:project} \mbox{PROJECT CONTACT (\mathbf{A} \ensuremath{\mathbf{PERSON}}): [\mathbf{Not}$ the Fire Protection Contract \mathbf{A}]} \label{eq:projection}$	CONTACT'S E-MAIL:										
PROJECT												
2	PROJECT COMPLETE AND CORRECT ADDRESS [Include direction, e.g.: N. S. E. W., and suite #, if applicable]:											
4												
	BRIEF description of Scope and Area of Work Proposed:											
"Applicant" is an agent of the licensed fire protection firm and is RESPONSIBLE FOR ALL WORK UNDER THE PERM												
	LICENSED FIRE PROTECTION FIRM:		FIRM'S PHONE:	FIRM'S LICENSE #: ACR-								
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APPLICANT	FIRM'S MAILING ADDRESS - STREET ADDRESS/SUITE #:	CITY:	ST: ZIP:	DESIGN PROFESSIONAL'S LICENSE #:								
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	APPLICANT'S NAME: APPLICANT'S TITI	LE: DIRECT PHONE:	APPLICANT'S E-MAIL	ADDRESS:								
	"System" is the fire protection system to be	permitted. A separate Ap	oplication is required for e	each license type:								
Σ	SYSTEM TYPE:											
SYSTEM	EXTENT OF WORK:											
34	TOTAL COST OF THE SYSTEM(s) TO BE COVERED BY THIS PERMIT [Include all labor, materials, etc]:											
Ар	olicant has reviewed & complied with all guideli	nes and instructions a	nd all information is co	mpiete and correct.								
APPLICANT'S SIGNATURE* [Must be signed by the Applicant named above.] *Approved digital signatures have verifiable "digital certificates". [See "What is a digital signature?"] Pasted/inserted & typed signatures are NOT approved.												
	Approved <i>digital signatures</i> have verifiable "digital certificates" If you cannot digitally sign: Print this page, sign in ink, so											
OFFICE USE ONLY												
	MIT #: BLDG. PERMI			FEE: \$ EXEMPT:								
DA ⁻	E ISSUED: CC or Chec	k #:	PERMIT ISSUED BY:									
NOTES:												



SUBMITTAL TYPE:

Signature of Licensed Design Professional Form

Richardson Fire Department

300 N. Greenville Avenue, Richardson, TX 75081 Telephone: 972-744-5750 Fax: 972-744-5796 www.cor.net/fire

Fire Department Permit Forms and Information are available at www.cor.net/fire/permits.

Meets signature requirements of TAC 34.6 The Fire Alarm Rules.

READ AND FOLLOW ALL INSTRUCTIONS:

- This Form is mostly auto-filled when the Application is computer completed. TAB through to complete the remaining fields;
- Use ONLY the current version of all Forms;
- This Form is an optional alternative to digitally stamping & signing plans, including "as-builts". Please do **NOT** print and re-scan plans;

Original FIRE DEPARTMENT Application/Permit # [IF applicable]:

• The Stamp **must** be signed and dated by the Licensed Design Professional.

PROJECT NAME:		1000500 Ft.																
PROJECT COMPL	LETE AND CORRECT	ADDRESS [Include of	direction, e.g.: N.	S. E.	W., and suite #, i	f applicable]:												
DO NOT LEAVE THE FOLLOWING SECTION BLANK!																		
TOTAL NUMBER C	OF STAMPED PAGES:																	
Sheet Number	Date Drawn / Revised	Sheet Number	Date Drawn / Revised		Sheet Number	Date Drawn / Revised	Sheet Number	Date Drawn / Revised										
				-			Attach additiona	l Forms if needed.										
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FIRE ALARM PLANS					□FIRE EXTINGUISHER FIXED SYSTEM NOT PRE-ENGINEERED □FIRE ALARM □FIRE SPRINKLER													
I have reviewed these plans and certify that they comply with 2018 International Fire Code as amended and adopted by The City of Richardson, currently published applicable					☐ For Submit	ttal	☐ As Built Record Drawings											
					I have reviewed these plans and ☐ certify that they comply with 2018 International Fire Code as amended													
NFPA standards, and 2017 edition of NFPA 70 (if applicable); OR, certify they were copied from sealed engineering plans and any violations of the applicable codes or standards are specifically noted on these plans. ACR-					and adopted by The City of Richardson, currently published applicable NFPA standards, and 2017 edition of NFPA 70 (if applicable); OR, certify they were copied from sealed engineering plans and any violations of the applicable codes or standards are specifically noted on these plans. Registered Firm's Name: Street Address:													
										City, State, Zip: Phone Number:								
														Registration Type and Number:				
																	[include ALL letters, e.g	. 5CK-G-1234]
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