

REQUEST FOR PROPOSAL FOR FIRE ALARM REPLACEMENT

Sunset Tower 941 Main St. Sanford, ME

October 30, 2023

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INVITATION FOR REQUEST FOR PROPOSAL

The Sanford Housing Authority, (SHA) will receive proposals for Fire Alarm Contractor services associated with the replacement and upgrade to the existing fire alarm system at Sunset Tower located at 941 Main St. until <u>Tuesday</u>, <u>December 5</u>, <u>2023</u>, <u>at 10:00 a.m. EST</u>. SHA invites vendors to submit proposals responsive to the specific requirements set forth in this request for proposal (RFP).

All vendors interested in submitting a proposal are encouraged to attend a walkthrough of the building on <u>Monday</u>, <u>November 20</u>, <u>2023</u>, at 10:00 a.m. EST.

Questions regarding this request for proposal should be submitted in writing to Randy Levangie at rlevangie@sanfordhousing.org by Monday, November 27, 2023, at 10:00 a.m. EST. Responses will be provided by the end of business on Thursday, November 30, 2023.

Proposals may be dropped off at 17 School St., mailed or emailed. All proposals must be marked "Sunset Tower FA Upgrade RFP." Please include your companies name, address and contact information. No proposal may be withdrawn or modified in any way after the deadline for proposal openings, and no faxed proposals will be accepted. All proposals will remain sealed or unopened until **Tuesday**, **December 5**, **2023**, at **10:00 a.m. EST**.

Proposals should be addressed as follows:

Randy Levangie, Maintenance Director Sanford Housing Authority 17 School St. P.O. Box 1008 Sanford, Maine 04073 rlevangie@sanfordhousing.org

All proposers will be required to certify that they are not on the federal Consolidated List of Debarred, Suspended and Ineligible Contractors.

All labor is required to be paid at a rate not less than the greater amount of the current Federal Davis-Bacon Prevailing Wage and State Prevailing Wage (published with RFP documents).

The Housing Authority reserves the right to postpone, accept, or reject any and all bids as the Housing Authority deems in its own best interest, subject to the terms and provisions of the Contract documents.

For any additional information, please contact Randy Levangie at the Housing Authority at (207) 324-6747 x116 or rlevangie@sanfordhousing.org.

REQUEST FOR PROPOSAL

ABOUT:

The Sanford Housing Authority (SHA) is a Public Housing Authority that provides affordable housing to the Sanford community. SHA owns and operates 227 rental units, of which 121 are Low Income Public Housing and are regulated by the U.S. Department of Housing and Urban Development (HUD).

Sunset Tower is an 8 story (75'), 72-unit mid-rise apartment building. The building is of Type 1 construction and is home to a population of senior and disabled low-income individuals. The development is located at 941 Main St in Sanford, ME. The building was constructed in 1970 and the fire alarm system was upgraded, and a sprinkler system was installed in 1990. The building is currently fully occupied.

SCOPE OF WORK:

The existing fire alarm system is a Pyrotronics System 3 by Siemens. Siemens has discontinued the sale and support of the System 3 fire alarm system panels. The scope of this project includes the installation of an entirely new addressable fire alarm system and complete removal of all existing equipment as indicated on the Contract Documents completed by TARR Engineering (**Exhibit A**).

PROPOSAL FORMAT:

Proposals must include the following (in the following order):

1. **Letter of Interest** discussing the company's approach to the scope of services.

2. Technical Proposal

- a. Project Approach: Provide a narrative which explains the company's experience in performing and coordinating fire alarm system replacements of a similar nature and scope. Provide a schedule for the completion of the work.
- b. Proposed Fee: Include a breakdown of the costs of major components as well as a guaranteed maximum price for all of the work. Also, identify any costs that cannot be determined at this time, if any, as allowances.

3. Organization, Support and Experience

- a. A list of projects successfully completed of a similar nature
- b. Recommendations and references
- 4. **Proposals over \$250,000** require the following in addition to the items above:

a. Bid Bond Certification

- 1. Bid bond certification equal to 5% of the proposed price bid bond secured by a surety company acceptable to the U.S. Government and authorized to do business in the state where the work is to be performed.
- b. HUD 5369-A Representations, Certifications, and Other Statements of Bidders (EXHIBIT C)

AWARD OF CONTRACT:

The Award of Contract will be based on the results of the proposal evaluations. The Sanford Housing Authority will select the top company on the basis of the proposal that represents the best overall value to the Housing Authority considering factors based upon the proposal (not necessarily the lowest pricing). Housing Authority reserves the right to conduct negotiations with one or more respondents if, in the sole opinion of the Housing Authority this will provide the greatest benefit.

SELECTION PROCESS:

All proposals will be reviewed by the Housing Authority. The purpose of this RFP is to solicit proposals so that the Housing Authority may, from among a range of proposals, select an offer of services that best meets its needs and requirements. It is further desired that the RFP process will establish the cost of the Project and ensure cost competitiveness among respondents.

Proposals will be reviewed and evaluated by an evaluation committee from the Sanford Housing Authority. The committee will select a preferred vendor from the submitted proposals within 30 days from the proposal due date. Proposals must be valid for ninety (90) days following the opening date.

Interested parties are urged to carefully review the requirements of this RFP. Written proposals containing the requested information will serve as the basis for final selection. The Housing Authority retains the right to accept or reject any and all proposals.

Criteria	Points
Qualifications	25
Cost	30
Project Plan	25
References	10
Completeness of Bid	10
Total	100

PROCUREMENT SCHEDULE:

The Housing Authority anticipates the selection based on the following schedule (subject to revision):

Date	Event
10/30/2023	RFP Issued and Available
11/20/2023	Walkthrough Property – 10:00AM
11/27/2023	Question Submissions Due
11/30/2023	Question Responses Due
12/5/2023	Written Proposals Due
12/18/2023	Award of Contract

WRITTEN QUESTIONS:

Only written questions (including emails) received by the Housing Authority by the date noted above will be addressed. Any question or answer that materially impacts the information contained in the RFP will be clarified by a written addendum or amendment, which will be sent to all that initially received the RFP and any firms who inform the Authority of their interest. If an addendum or amendment materially impacts the information in the RFP and there is not enough time for an adequate response, the submission date for the proposals will be extended.

All questions, comments and inquiries are to be made to Housing Authority Questions should be addressed as follows:

Randy Levangie, Maintenance Director Sanford Housing Authority 17 School Street P.O. Box 1008 Sanford ME 04073

FAX: (207) 324-6870

EMAIL: rlevangie@sanfordhousing.org

SUNSET TOWER FIRE ALARM SYSTEM UPGRADE

941 MAIN STREET SANFORD, MAINE

EXHIBIT A

CONSTRUCTION DOCUMENTS
OCTOBER 25, 2023

LIST OF DRAWINGS

G00-1 COVER SHEET

ELECTRICAL

E00-1 ELECTRICAL LEGEND

E00-2 ELECTRICAL SPECIFICATIONS

E05-1 FIRE ALARM EXISTING CONDITIONS FIRST FLOOR PLAN

E05-2 FIRE ALARM EXISTING CONDITIONS SECOND FLOOR PLAN

E05-3 FIRE ALARM EXISTING CONDITIONS THIRD FLOOR PLAN

E05-4 FIRE ALARM EXISTING CONDITIONS FOURTH FLOOR PLAN

E05-5 FIRE ALARM EXISTING CONDITIONS FIFTH FLOOR PLAN

E05-6 FIRE ALARM EXISTING CONDITIONS SIXTH FLOOR PLAN

E05-7 FIRE ALARM EXISTING CONDITIONS SEVENTH FLOOR PLAN

E05-8 FIRE ALARM EXISTING CONDITIONS EIGHTH FLOOR PLAN

E20-1 FIRE ALARM FIRST FLOOR PLAN

E20-2 FIRE ALARM SECOND FLOOR PLAN

E20-3 FIRE ALARM THIRD FLOOR PLAN

E20-4 FIRE ALARM FOURTH FLOOR PLAN

E20-5 FIRE ALARM SIXTH FLOOR PLAN

FIRE ALARM SEVENTH FLOOR PLAN

FIRE ALARM EIGHTH FLOOR PLAN

TARR Engineering

tarreng@outlook.com 207-212-6022 - New Gloucester, Maine

SUNSET TOWER FIRE ALARM UPGRADE

> 941 Main Street Sanford, Maine

Project No.	22012
Key Plan	Proj North

PROGRESS

SEPTEMBER 13, 2023

Rev Date Revision Description

PROGRESS
NOT FOR
CONSTRUCTION

Drawing Scales	
PA / PE: JWT - Drawn By: JMB	© 2023 TARR Engineering

COVER SHEET

G00-1

ELECTRICAL LEGEND HOMERUN TO PNLBRD - ARROWS INDICATE NUMBER OF CIRCUITS. CROSS LINES INDICATE NUMBER OF CONDUCTORS OTHER THAN TWO LP-1,3 **◄◄!!!!** CIRCUIT NUMBER(S) PANEL DESIGNATION WIRING CONCEALED IN WALL OR CEILING (EXPOSED OR SURFACE ONLY WHERE SPECIFICALLY INDICATED) WIRING IN RACEWAY CONCEALED UNDER FLOOR/UNDER GROUND -----JUNCTION BOX \Box DISCONNECT SWITCH ď FUSED DISCONNECT SWITCH PANELBOARD - 120/208V - SURFACE MOUNTED PANELBOARD - 120/208V - FLUSH MOUNTED FIRE ALARM CONTROL PANEL VOIC FIRE ALARM SYSTEM VOICE AMPLIFIER FIRE ALARM SYSTEM REMOTE ANNUNCIATOR AND MICROPHONE STATION F FIRE ALARM MANUAL PULL STATION - MOUNT C/L UP 48" S FIRE ALARM SYSTEM SPEAKER FIRE ALARM SPEAKER/LIGHT UNIT - CANDLE POWER (CD) PER NFPA 72 AND AS NOTED - 15/75 WHERE NOT OTHERWISE INDICATED ON PLANS -MOUNT C/L UP 90" ON WALL $\square \! \square$ FIRE ALARM HORN/LIGHT UNIT - CANDLE POWER (CD) PER NFPA 72 AND AS NOTED - 15/75 WHERE NOT OTHERWISE INDICATED ON PLANS -MOUNT C/L UP 90" ON WALL FIRE ALARM STROBE LIGHT UNIT - CANDLE POWER (CD) PER NFPA 72 AND AS NOTED - 15/75 WHERE NOT OTHERWISE INDICATED ON PLANS -MOUNT C/L UP 90" ON WALL FIRE ALARM STROBE LIGHT UNIT - CANDLE POWER (CD) PER NFPA 72 AND AS NOTED - 15/75 WHERE NOT OTHERWISE INDICATED ON PLANS -MOUNT ON CEILING FIRE ALARM SYSTEM DUCT SMOKE DETECTOR WITH SAMPLING TUBE 3 FIRE ALARM SYSTEM SMOKE DETECTOR - CEILING MOUNTED - COORDINATE EXACT LOCATION WITH MECHANICAL DIFFUSERS AND GRILLES - DO NOT LOCATE WITHIN 5 FEET OF A MECHANICAL DIFFUSER OR GRILLE FIRE ALARM SYSTEM SMOKE DETECTOR WITH SOUNDER BASE - WALL MOUNTED WITHIN 12" OF CEILING - COORDINATE EXACT LOCATION WITH FANS, MECHANICAL DIFFUSERS AND GRILLES - DO NOT LOCATE WITHIN 5 FEET OF A FAN, MECHANICAL DIFFUSER OR GRILLE - "LF" INDICATES LOW-FREQUENCY FIRE ALARM SYSTEM COMBINATION SMOKE AND CO DETECTOR WITH SOUNDER BASE - WALL MOUNTED WITHIN 12" OF CEILING - COORDINATE EXACT LOCATION WITH FANS, MECHANICAL DIFFUSERS AND GRILLES - DO NOT LOCATE WITHIN 5 FEET OF A FAN, MECHANICAL DIFFUSER OR GRILLE - "LF" INDICATES LOW-FREQUENCY FIRE ALARM SYSTEM HEAT DETECTOR - CEILING MOUNTED - COORDINATE EXACT LOCATION WITH MECHANICAL DIFFUSERS AND GRILLES - DO NOT LOCATE WITHIN 5 FEET OF A MECHANICAL DIFFUSER OR GRILLE FIRE ALARM SYSTEM COMBINATION SMOKE AND CO DETECTOR - CEILING MOUNTED - COORDINATE EXACT LOCATION WITH MECHANICAL DIFFUSERS AND GRILLES - DO NOT LOCATE WITHIN 5 FEET OF A MECHANICAL DIFFUSER OR GRILLE FIRE ALARM ADDRESSABLE INPUT MODULE FIRE ALARM ADDRESSABLE OUTPUT MODULE FIRE ALARM SYSTEM GAS DETECTOR FIRE ALARM TAMPER SWITCH SMOKE ALARM - 120V INDICATOR LIGHT - 120V LOCKABLE KEY BOX **KEYNOTE TAG** WEATHER PROOF

TARR Engineering

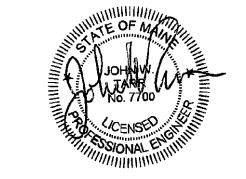
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> SUNSET TOWER FIRE ALARM UPGRADE

> > 941 Main Street Sanford, Maine

Project No. 22012

Key Plan



CONSTRUCTION DOCUMENTS

October 25, 2023

Rev Date Revision Description

Drawing Scales

PA / PE: JWT

Drawn By: JWT

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LEGEND

E00-1

SECTION 26100 ELECTRIC PART 1 – GENERAL 1 SECTION INCLUDES A. THE WORK INCLUDED UNDER THIS SECTION CONSISTS OF A COMPLETE UPGRADE OF THE FACILITY FIRE ALARM SYSTEM, INCLUDING THE COMPLETE REMOVAL OF ALL DEMOLISHED WIRING, EQUIPMENT AND COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM. FURNISH, INSTALL AND CONNECT ALL SYSTEM COMPONENTS AS REQUIRED FOR A FULLY FUNCTIONAL ADDRESSABLE FIRE ALARM SYSTEM. FURNISH AND INSTALL ALL REQUIRED SYSTEM AND EQUIPMENT GROUNDS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AND ADDITIONAL GROUNDING AS INDICATED AND SPECIFIED. SECURE AND PAY FOR ALL PERMITS AND CERTIFICATES AS REQUIRED BY LOCAL, STATE AND FEDERAL LAWS. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE NATIONAL ELECTRICAL CODE, NFPA-70 AND NFPA-72 ADOPTED BY THE STATE OF MAINE AND CITY OF SANFORD, AND ALL CITY OF SANFORD FIRE ALARM REGULATIONS. A. CONDITIONS OF THE CONTRACT AND DIVISION 1, GENERAL REQUIREMENTS, APPLY TO ALL THE WORK, INCLUDING THE WORK OF THIS DIVISION. EXAMINE ALL CONTRACT DOCUMENTS FOR REQUIREMENTS AFFECTING THE WORK. .3 SHOP DRAWINGS A. THE CONTRACTOR SHALL, AFTER AWARD OF CONTRACT AND BEFORE INSTALLATION, SUBMIT SHOP DRAWINGS, OWNER'S MANUALS AND OPERATING INSTRUCTIONS FOR EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS (SHOP DRAWINGS ARE REQUIRED PRIOR TO ACCEPTANCE) 1. FIRE ALARM SYSTEM COMPONENTS, SHOP DRAWINGS SHALL SHOW INDICATING AND INITIATING DEVICE TYPE AND LOCATION AND SHALL INDICATE ANY DEVICE CONTROLLED IN SUCH CASES. SHOP DRAWINGS SHALL ALSO PROVIDE DEVICE NUMBER, AREA OR ROOM NUMBER INDICATING DEVICE LABEL, TYPE AND ENGINEERING DATA. SUBMIT SIGNED LETTER CERTIFYING THAT THE PROPOSED EQUIPMENT/SYSTEM/PHASING PLAN HAS BEEN REVIEWED AND APPROVED BY THE LOCAL FIRE DEPARTMENT. THIS FIRE DEPARTMENT REVIEW AND CERTIFICATION SHALL HAPPEN PRIOR TO SUBMISSION OF SHOP DRAWINGS TO ENGINEER. SHOP DRAWINGS WILL NOT BE REVIEWED WITHOUT THE REQUIRED CERTIFICATION LETTER.

1.4 PROJECT CLOSE-OUT DOCUMENTATION

PART 2 - PRODUCTS

2.1 WIRING MATERIALS

2.4 METALLIC BONDING SYSTEM

A. SAFETY MATERIAL SAFETY DATA SHEETS RECEIVED.

DATE, AND SHALL BE DELIVERED TO THE OWNER.

RECORD DRAWINGS FOR THE COMPLETE FIRE ALARM SYSTEM.

BATTERY CALCULATIONS (IF REVISIONS TO SYSTEM WERE MADE DURING INSTALLATION).

OBTAIN APPROVAL FROM THE OWNER BEFORE RUNNING EXPOSED WIRING.

OR APPROVED EQUAL. FOR PARALLEL RUNS OF CONDUIT.

KNOCKOUTS TOP AND BOTTOM AND COVER ON FRONT.

FUSING SIZED ACCORDINGLY. WIRE SHALL BE INSULATED FOR 600 VOLTS.

EARS TO RECEIVE FIXTURE BARS. USE 4-11/16" SQUARE BOXES WHERE REQUIRED.

A. PROVIDE AND INSTALL BONDING CONDUCTOR TO EACH ITEM OF ELECTRICAL EQUIPMENT.

ALL BOXES SHALL BE RIGIDLY SUPPORTED AS APPROVED.

GENERAL WIRING CONCEALED WITHIN WALL AND CEILING CAVITIES MAY BE TYPE MC CABLE.

INSTRUCTION MANUALS SHALL BE PROVIDED FOR ALL PROPOSED EQUIPMENT, COMPONENTS, AND ACCESSORIES.

A. THE CONTRACTOR SHALL KEEP A MARKED SET OF DRAWINGS AT THE SITE AS A RECORD SET INDICATING ALL REVISIONS IN THE WORK AS THE WORK

PROGRESSES. UPON COMPLETION OF THE WORK, THE DRAWINGS SHALL BE MARKED "AS-BUILT DRAWINGS" WITH THE CONTRACTOR'S NAME AND

A. IN GENERAL, WHEREVER BUILDING CONDITIONS ALLOW, CABLES AND RACEWAYS SHALL BE CONCEALED ABOVE CEILINGS AND WITHIN FINISHED WALLS

SHALL BE EXPOSED OVERHEAD SUCH THAT ALL RACEWAYS ARE PARALLEL OR PERPENDICULAR TO JOISTS, COLUMNS OR BEAMS.

ALL COUPLINGS AND CONNECTORS FOR ELECTRICAL METALLIC TUBING SHALL BE SET-SCREW OR COMPRESSION TYPE

MINIMUM SIZE SHALL BE 3/4" EXCEPT AS NOTED OR WITH APPROVAL FROM THE OWNER AND ENGINEER.

BRANCH CIRCUITS OF 120 VOLTS MORE THAN 100 FEET LONG FROM PANEL TO LOAD SHALL BE NO. 10 AWG.

SECURELY SUPPORTED IN ACCORDANCE WITH CODE REQUIREMENTS. WIRING IN AREAS WITH NO FINISHED CEILINGS (EXPOSED CONSTRUCTION)

EXCEPT AS OTHERWISE SPECIFICALLY NOTED, ALL EXPOSED WIRING THROUGHOUT THE BUILDING, INCLUDING RACEWAYS FOR EACH OF THE SYSTEMS

TERMINATION FOR ALL CONDUIT AND TUBING SHALL HAVE INSULATED BUSHINGS OR INSULATED THROAT CONNECTORS IN ACCORDANCE

C. WIREWAYS SHALL BE FURNISHED AND INSTALLED COMPLETE AS INDICATED ON THE DRAWINGS OR AS REQUIRED, FOR THE NUMBER OF CIRCUITS INDICATED.

CONDUCTORS FROM COVER SCREWS. FITTINGS SHALL HAVE REMOVABLE FRONT COVERS FOR INSTALLATION OF WIRES. WIREWAY SHALL HAVE

PROVIDE SUPPORTS AS APPROVED WITH SUPPORTS LOCATED AT EVERY SPLICE AND FITTING AND AT INTERVALS NOT EXCEEDING FIVE FEET.

SIZES SHALL BE NOT LESS THAN INDICATED. BRANCH CIRCUIT CONDUCTORS SHALL BE NOT SMALLER THAN NO. 12 AWG. CONDUCTORS FOR

E. ALL EXTERIOR EXPOSED WIRING SHALL HAVE THREADED CAST "CONDULET" TYPE FITTINGS. FITTINGS AND BOXES FOR EXTERIOR INSTALLATION SHALL BE

MINIMUM DEPTH, EXCEPT AS NOTED. PROVIDE PLASTER RINGS RAISED UP TO 1-1/4" ON BOXES AS REQUIRED. JUNCTION BOXES SHALL BE SPECIALLY

PULL BOXES SHALL BE INSTALLED WHERE INDICATED OR REQUIRED. BOXES SHALL BE GALVANIZED STEEL OF ADEQUATE SIZE FOR ALL

CONDUIT CONNECTIONS: WHEN CONDUIT IS JOINED TO A NON-THREADED OR HUBLESS NEMA 1 OR NEMA 1A BOX OR ENCLOSURE, IT SHALL

BE JOINED BY MEANS OF TWO LOCKNUTS AND INSULATED OR GROUNDING BUSHING, AS REQUIRED. WHEN CONDUIT IS JOINED TO A NON-

CONDUITS AND SLEEVES PENETRATING FIRE RATED BARRIERS SHALL BE SEALED AND/OR FILLED WITH APPROVED MATERIAL TO MAINTAIN THE

G. BACKBOXES FOR ALL FIRE ALARM DEVICES AND APPLIANCES SHALL BE FACTORY BACKBOXES TO FIT THE RESPECTIVE DEVICE WITHOUT LEAVING SHARP EDGES.

HREADED OR HUBLESS NEMA 12 OR WATERTIGHT BOX OR ENCLOSURE, IT SHALL BE JOINED BY MEANS OF MYERS "SCRU-TITE," OR EQUAL HUBS,

CONSTRUCTED OF CODE GAUGE GALVANIZED SHEET STEEL WHERE REQUIRED. LIGHT OUTLET BOXES ARE TO BE PROVIDED WITH DRILLED AND TAPPED

F. JUNCTION BOXES SHALL BE STANDARD TYPE GALVANIZED STEEL MINIMUM SIZE FOUR INCH (4") OCTAGON OR FOUR INCH (4") SQUARE 2-1/8"

1. OUTLET BOXES, FITTINGS, ETC., FOR EXTERIOR USE SHALL BE CAST TYPE "CONDULET" WITH GASKETS FOR WATERPROOFING

BONDING CONDUCTORS SHALL BE CONTINUOUS WHERE POSSIBLE. WHERE SPLICES ARE REQUIRED, PROVIDE T & B, OR APPROVED EQUAL,

COMPRESSION CONNECTORS OF APPROVED PATTERN. INSULATE CONNECTORS TO EQUIVALENT THICKNESS OF CONDUCTORS

CONDUCTORS INSTALLED THEREIN, AND SHALL HAVE EITHE SCREW TYPE OR HINGED FLUSH COVERS AS REQUIRED.

WIREWAYS SHALL BE AS MANUFACTURED BY ITE, SQUARE D, OR GENERAL ELECTRIC, OR APPROVED EQUAL, FOR TRIM AND NEAT INSTALLATION

OTHERWISE. WIRING #8 AWG AND LARGER SHALL BE STRANDED. ALL WIRING SHALL BE UL LABELED AND INDICATE MANUFACTURER'S NAME, TYPE AND SIZE.

NON-LOAD CARRYING CONTROL CIRCUIT WIRING FROM MOTOR CONTROL DEVICES TO MOTOR CONTROL MAY BE #14 AWG WITH CONTROL CIRCUIT

WIREWAYS SHALL BE UNDERWRITERS' APPROVED, CODE GAUGE, ENAMELED STEEL OF SIZES AS INDICATED, WITH COUPLINGS, FITTINGS,

OFFSETS, SUPPORTS, END CAPS, ETC., COMPLETE. ALL WIREWAYS SHALL HAVE SCREW TYPE COVERS, WITH BUILT-IN PROTECTION OF

ALL CONDUITS SHALL BE SUBSTANTIALLY SUPPORTED WITH APPROVED CLIPS OR HANGERS SPACED NOT TO EXCEED TEN FEET (10') ON

CENTERS EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE. PROVIDE AND INSTALL SUPPORTING RACKS OF POWER-STRUT,

D. WIRING SHALL BE COPPER CONDUCTORS WITH THHN/THWN OR XHHW INSULATION RATED FOR 600-VOLTS, EXCEPT WHERE SPECIFICALLY INDICATED

SPECIFIED, SHALL BE ENCLOSED IN ELECTRIC METALLIC TUBING (EMT); ALL SIZED IN ACCORDANCE WITH CODE REQUIREMENTS FOR THE CONDUCTORS

2.3 FIRE ALARM SYSTEM PROVIDE A COMPLETE FULLY ADDRESSABLE FIRE ALARM SYSTEM AS REQUIRED TO IMPLEMENT THE DESIGN AS INDICATED ON THE DRAWINGS AND AS

PROVIDE ALL NECESSARY DEVICES, MODULES AND COMPONENTS, ETC... AS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM AS SPECIFIED HEREIN. PROVIDE SYSTEM DOCUMENTS TO REPRESENT FINAL INSTALLED CONDITION OF SYSTEM. NOTIFICATION AND INITIATION CIRCUITS SHALL BE CLASS A WITH SEPARATION PROVIDED BETWEEN "SUPPLY" AND "RETURN" WIRING AT ALL TIMES.

HORN/SPEAKER/STROBES: COMBINATION AUDIBLE/VISIBLE SIGNALS SHALL BE SIMILAR TO WHEELOCK #NS SERIES.

PEAK SOUND OUTPUT: 90 DBA. ABILITY TO SILENCE THE HORN WHILE LEAVING THE VISIBLE SIGNAL ACTIVE.

CAPABLE OF MEETING THE CANDELA REQUIREMENTS OF ADA. POLARIZED TO ALLOW ELECTRICAL SUPERVISION. CANDELA RATINGS: SELECTABLE 15, 30, 75, 110, 177 WITH VISUAL INDICATOR.

SET INITIALLY AS SHOWN ON DRAWINGS. WHERE DRAWINGS SHOW 15/75, THEN USE A FIXED 15/75 OR SET SELECTION AT 75. RED FACE PLATE WITH WHITE LETTERS. STROBE LIGHTS SHALL BE SIMILAR TO WHEELOCK #RSS24MC-WFR AND SHALL MEET THE REQUIREMENTS OF THE ADA, UL STANDARD 1971

AND SHALL MEET THE FOLLOWING CRITERIA: THE MAXIMUM PULSE DURATION SHALL BE 2/10 OF ONE SECOND. STROBE INTENSITY SHALL MEET THE REQUIREMENTS OF UL 1971.

THE FLASH RATE SHALL MEET THE REQUIREMENTS OF UL 1971. WHERE MORE THAN ONE STROBE IS VISIBLE IN ONE LOCATION, SYNCHRONIZATION SHALL BE REQUIRED CANDELA RATINGS: SELECTABLE 15, 30, 75, 110, 177 WITH VISUAL INDICATOR.

SET INITIALLY AS SHOWN ON DRAWINGS. WHERE DRAWINGS SHOW 15/75, THEN USE A FIXED 15/75 OR SET SELECTION AT 75. RED FACE PLATE WITH WHITE LETTERS. MINI-HORN/STROBES: COMBINATION AUDIBLE/VISIBLE SIGNALS SHALL BE SIMILAR TO WHEELOCK #NS SERIES.

PEAK SOUND OUTPUT: 90 DBA. ABILITY TO SILENCE THE HORN WHILE LEAVING THE VISIBLE SIGNAL ACTIVE. CAPABLE OF MEETING THE CANDELA REQUIREMENTS OF ADA.

POLARIZED TO ALLOW ELECTRICAL SUPERVISION. CANDELA RATINGS: SELECTABLE 15, 30, 75, 110, WITH VISUAL INDICATOR.

SET INITIALLY AS SHOWN ON DRAWINGS. WHERE DRAWINGS SHOW 15/75, THEN USE A FIXED 15/75 OR SET SELECTION AT 75. RED FACE PLATE WITH WHITE LETTERS MINI-UNITS IN SMALL ROOMS AND WHERE INDICATED: USE LOWEST SOUNDING LEVEL SETTING. ADDRESSABLE DEVICES - GENERAL:

ADDRESSABLE DEVICES SHALL MAINTAIN DECADE (NUMBERED 0 TO 15 AND 0 TO 9) TYPE ADDRESS SWITCHES. DETECTORS SHALL BE INTELLIGENT (ANALOG) AND ADDRESSABLE, AND SHALL CONNECT WITH TWO WIRES TO THE FACP SIGNALING LINE CIRCUIT ADDRESSABLE SMOKE, CARBON MONOXIDE AND THERMAL DETECTORS SHALL PROVIDE DUAL ALARM AND POWER/POLLING LEDS. BOTH LED'S

ALARM CONDITION HAS BEEN DETECTED. IF REQUIRED, THE LED FLASH SHALL HAVE THE ABILITY TO BE REMOVED FROM THE SYSTEM PROGRAM. AN OUTPUT CONNECTION SHALL ALSO BE PROVIDED IN THE BASE TO CONNECT AN EXTERNAL REMOTE ALARM LED. SMOKE DETECTOR SENSITIVITY SHALL BE SET IN THE FIRE ALARM CONTROL PANEL AND SHALL BE ADJUSTABLE IN THE FIELD THROUGH THE FIELD PROGRAMMING OF THE SYSTEM. SENSITIVITY MAY BE AUTOMATICALLY ADJUSTED BY THE PANEL ON A TIME-OF-DAY BASIS. USING SOFTWARE IN THE FACP, DETECTORS SHALL AUTOMATICALLY COMPENSATE FOR DUST ACCUMULATION AND OTHER SLOW ENVIRONMENTAL CHANGES THAT MAY AFFECT THEIR PERFORMANCE. THE DETECTORS SHALL BE LISTED BY UL AS MEETING THE

CONTROL PANEL, AND BOTH LED'S SHALL BE PLACED INTO STEADY ILLUMINATION BY THE CONTROL PANEL, INDICATING THAT AN

CALIBRATED SENSITIVITY TEST REQUIREMENTS OF NFPA STANDARD 72, CHAPTER 7. THE DETECTORS SHALL BE CEILING-MOUNT (OR WALL MOUNT) AND SHALL INCLUDE A SEPARATE TWIST-LOCK BASE WITH TAMPER PROOF FEATURE. THE DETECTORS SHALL PROVIDE A TEST MEANS WHEREBY THEY WILL SIMULATE AN ALARM CONDITION AND REPORT THAT CONDITION TO THE CONTROL PANEL. SUCH A TEST MAY BE INITIATED AT THE DETECTOR ITSELF (BY ACTIVATING A MAGNETIC SWITCH) OR

INITIATED REMOTELY ON COMMAND FROM THE CONTROL PANEL. h. DETECTORS SHALL ALSO STORE AN INTERNAL IDENTIFYING TYPE CODE THAT THE CONTROL PANEL SHALL USE TO IDENTIFY THE TYPE OF DEVICE (ION, PHOTO, THERMAL).

DETECTORS SHALL OPERATE IN AN ANALOG FASHION, WHERE THE DETECTOR SIMPLY MEASURES ITS DESIGNED ENVIRONMENT VARIABLE AND TRANSMITS AN ANALOG VALUE TO THE FACP BASED ON REAL-TIME MEASURED VALUES. THE FACP SOFTWARE, NOT THE DETECTOR, SHALL MAKE THE ALARM/NORMAL DECISION, THEREBY ALLOWING THE SENSITIVITY OF EACH DETECTOR TO BE SET IN THE FACP PROGRAM AND ALLOWING THE SYSTEM OPERATOR TO VIEW THE CURRENT ANALOG VALUE OF EACH DETECTOR.

ADDRESSABLE DEVICES SHALL PROVIDE ADDRESS-SETTING MEANS USING DECIMAL SWITCHES AND SHALL ALSO STORE USE TO IDENTIFY THE TYPE OF DEVICE. LED(S) SHALL BE PROVIDED THAT SHALL FLASH UNDER NORMAL CONDITIONS, INDICATING THAT THE DEVICE IS OPERATIONAL AND IS IN REGULAR COMMUNICATION WITH THE CONTROL PANEL. A MAGNETIC TEST SWITCH SHALL BE PROVIDED TO TEST DETECTORS AND MODULES. DETECTORS SHALL REPORT AN INDICATION OF

AN ANALOG VALUE REACHING 100% OF THE ALARM THRESHOLD. SOUNDER BASES SHALL BE PROVIDED WHERE INDICATED AND SHALL BE DEISGNED FOR USE WITH THE TYPE OF DETECTOR(S) SPECIFIED, AND SHALL PROVIDE 520 Hz LOW-FREQUENCY SIGNAL WHERE INDICATED. m. ALL ADDRESSABLE DEVICES SHALL HAVE AN IDENTIFYING ADDRESS AND LABEL INDICATING; DEVICE TYPE, FLOOR LEVEL, EXACT LOCATION,

ADDRESSABLE PULL BOX (MANUAL STATION): a. ADDRESSABLE PULL BOXES SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE STATE OF THE MANUAL SWITCH AND THE ADDRESSABLE COMMUNICATION MODULE STATUS. THEY SHALL USE A KEY OPERATED (SAME AS FACP Cat45) 3.6 FIRE ALARM SYSTEM FIELD TEST

TEST-RESET LOCK, AND SHALL BE DESIGNED SO THAT AFTER ACTUAL EMERGENCY OPERATION, THEY CANNOT BE RESTORED TO NORMAL USE EXCEPT BY THE USE OF A KEY. b. ALL OPERATED STATIONS SHALL HAVE A POSITIVE, VISUAL INDICATION OF OPERATION AND UTILIZE A KEY TYPE RESET. MANUAL STATIONS SHALL BE CONSTRUCTED OF LEXAN WITH CLEARLY VISIBLE OPERATING INSTRUCTIONS PROVIDED ON THE COVER.

THE WORD FIRE SHALL APPEAR ON THE FRONT OF THE STATIONS IN RAISED LETTERS, 1/75 INCHES OR LARGER. STATIONS SHALL BE SUITABLE FOR SURFACE MOUNTING OR SEMIFLUSH MOUNTING AS SHOWN ON THE PLANS, AND SHALL BE INSTALLED AT THAN 48 INCHES ABOVE THE FINISHED FLOOR TO OPERATING HANDLE. MANUAL BOXES SHALL BE THE DOUBLE ACTION TYPE.

INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR: THE DETECTORS SHALL USE THE PHOTOELECTRIC (LIGHT-SCATTERING) PRINCIPAL TO MEASURE SMOKE DENSITY AND SHALL, ON COMMAND FROM THE CONTROL PANEL, SEND DATA TO THE PANEL REPRESENTING THE ANALOG INTELLIGENT THERMAL DETECTORS: THERMAL DETECTORS SHALL BE INTELLIGENT ADDRESSABLE DEVICES RATED AT 135°F. (58°C.). IT SHALL

CONNECT VIA TWO WIRES TO THE FIRE ALARM CONTROL PANEL SIGNALING LINE CIRCUIT. 8. INTELLIGENT DUCT SMOKE DETECTOR: THE IN-DUCT SMOKE DETECTOR HOUSING SHALL ACCOMMODATE EITHER AN INTELLIGENTIONIZATION DETECTOR OR AN INTELLIGEN PHOTOELECTRIC DETECTOR, THAT PROVIDES CONTINUOUS ANALOG MONITORING AND ALARM VERIFICATION FROM THE PANEL.

INCLUDE SAMPLING TUBE b. WHEN SUFFICIENT SMOKE IS SENSED, AN ALARM SIGNAL IS INITIATED AT THE FACP, AND APPROPRIATE ACTION TAKEN TO CHANGE OVER AIR HANDLING SYSTEMS TO HELP PREVENT THE RAPID DISTRIBUTION OF TOXIC SMOKE AND FIRE GASES THROUGHOUT THE AREAS SERVED BY THE DUCT SYSTEM.

WHETHER SHOWN ON PLANS OR NOT, ALL AIR HANDLING SYSTEMS OPERATING AT 2000 CFM AND ABOVE SHALL HAVE DUCT MOUNTED SMOKE DETECTION EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 90A. SEE AIR HANDLING SCHEDULES ON MECHANICAL DRAWINGS. PROVIDE LABELED REMOTE TEST AND INDICATING STATIONS AT THE FIRE ALARM CONTROL PANEL. USE PHOTOELECTRIC TYPE DETECTOR WITH DUCT HOUSING AND RELAYS PLUS APPROPRIATE SAMPLING TUBES CUT TO LENGTH (WIDTH OF DUCT). 3.7

ADDRESSABLE DRY CONTACT MONITOR MODULE: SHOWN ON DRAWINGS AS AIM (ADDRESSABLE INPUT MODULE). ADDRESSABLE MONITOR MODULES SHALL BE PROVIDED TO CONNECT SUPERVISED IDC ZONE OF CONVENTIONAL ALARM INITIATING DEVICES (ANY N.O. DRY CONTACT DEVICE) TO ONE OF THE FIRE ALARM CONTROL PANEL SLC LOOPS. THE MONITOR MODULE SHALL MOUNT IN A 4-INCH SQUARE, 2-1/8 INCH DEEP ELECTRICAL BOX.

THE IDC ZONE MAY BE WIRE FOR STYLE D OR STYLE B OPERATION. AN LED SHALL BE PROVIDED THAT SHALL FLASH UNDER NORMAL CONDITIONS, INDICATING THAT THE MONITOR MODULE IS OPERATIONAL AND IN REGULAR COMMUNICATION WITH THE CONTROL PANEL. ADDRESSABLE CONTROL MODULE:SHOWN ON DRAWINGS AS AOM (ADDRESSABLE OUTPUT MODULE)

a. ADDRESSABLE CONTROL MODULE SHALL BE PROVIDED TO SUPERVISE AND CONTROL THE OPERATION OF ONE CONVENTIONAL NACS OF COMPATIBLE, 24 VDC POWERED, POLARIZED AUDIO/VISUAL NOTIFICATION APPLIANCES. FOR FAN SHUTDOWN AND OTHER AUXILIARY CONTROL FUNCTIONS, THE CONTROL MODULE MAY BE SET TO OPERATE AS A DRY CONTACT RELAY. THE CONTROL MODULE SHALL MOUNT IN A STANDARD 4-INCH SQUARE, 2-1/8 INCH DEEP ELECTRICAL BOX, OR TO A SURFACE

THE CONTROL MODULE NAC MAY BE WIRED FOR STYLE Z OR STYLE Y (CLASS A/B) WITH UP TO 1 AMP OF INDUCTIVE A/V SIGNAL. OR 2 AMPS OF RESISTIVE A/V SIGNAL OPERATION, OR AS A DRY CONTACT (FORM-C) RELAY. THE RELAY COIL SHALL BE MAGNETICALLY LATCHED TO REDUCE WIRING CONNECTION REQUIREMENTS, AND TO ENSURE THAT 100% OF ALL AUXILIARY RELAY OR NACS MAY BE ENERGIZED AT THE SAME TIME ON THE SAME PAIR OF WIRES. AUDIO/VISUAL POWER SHALL BE PROVIDED BY A SEPARATE SUPERVISED POWER LOOP FROM THE MAIN FIRE ALARM CONTROL PANEL

OR FROM A SUPERVISED, UL LISTED REMOTE POWER SUPPLY. THE CONTROL MODULE SHALL BE SUITABLE FOR PILOT DUTY APPLICATIONS AND RATED FOR A MINIMUM OF .6 AMPS AT 30 VDC.

11. FIRE ALARM POWER BRANCH CIRCUITS: AS INDICATED. ALARM SYSTEM WIRING WITHIN BUILDING: MINIMUM SIZE #16 AWG FOR INITIATING CIRCUITS AND #14 AWG FOR ALARM SIGNAL CIRCUITS, ALL COPPER-THWN, EXCEPT AS NOTED. NON POWER-LIMITED WIRING AND EXPOSED WIRING SHALL BE IN RIGID CONDUIT OR ELECTRICAL METALLIC TUBING OR FLEXIBLE METAL CONDUIT IN ACCORDANCE WITH WIRE AND CABLE: WIRING METHODS. CONCEALED POWER LIMITED WIRING IN DRY LOCATIONS ABOVE CEILINGS, IN ATTIC SPACE, IN STUD WALLS, EXCEPT AS NOTED, SHALL BE FIRE RESISTANT TEFLON COVERED CABLES APPROVED FOR USE IN AN AIR PLENUM FOR FIRE ALARM SYSTEM. CABLES SHALL BE PROPERLY SUPPORTED, LABELED AND TIE WRAPPED.

COMPLETE INSTALLATION SHALL MEET REQUIREMENTS OF NEC ARTICLE 760 "FIRE PROTECTIVE SIGNALING SYSTEMS." CABLES SHALL BE SEPARATED FROM ANY CONDUCTORS OF POWER OR CLASS 1 CIRCUITS AND SHALL NOT ENTER IN SAME CONDUITS

13. SLC MULTIPLEX COMMUNICATION LOOP: TWISTED PAIR SIZED PER MANUFACTURER SPECIFICATIONS INSTALLED IN CABLE OR CONDUIT.

TELEPHONE CIRCUITS: TWISTED SHIELDED PAIR SIZED PER MANUFACTURER. 15. ALL WIRING SHALL BE PER MANUFACTURERS RECOMMENDATIONS FOR LOAD AND LENGTH REQUIRED.

FIRE ALARM SYSTEM SHALL REPORT A FIRE USING TWO SEPARATE MEANS, DIGITAL COMMUNICATOR AND CELLULAR TELEPHONE SIGNAL COORDINATE ALL REQUIREMENTS WITH THE OWNER AND CONNINGHAM SECURITY OR OTHER SERVICE PROVIDER AS DIRECTED BY THE OWNER.

PART 3 - EXECUTION 3.1 WORKMANSHIP AND INSTALLATION

A. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE REQUIREMENTS AS AMENDED TO DATE, WITH THE LOCAL ELECTRIC UTILITY COMPANY'S RULES, THE FIRE UNDERWRITERS' REQUIREMENTS AND ALL LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS. ALL

COORDINATION: THE DRAWINGS INDICATE THE EXTENT AND THE GENERAL LOCATION AND ARRANGEMENT OF EQUIPMENT, CONDUIT AND WIRING. THE CONTRACTOR SHALL BECOME FAMILIAR WITH ALL DETAILS OF THE WORK AND VERIFY ALL DIMENSIONS IN THE FIELD SO THAT THE OUTLETS AND EQUIPMENT WILL BE PROPERLY LOCATED AND READILY ACCESSIBLE. EQUIPMENT AND MATERIALS SHALL BE LOCATED TO AVOID INTERFERENCE WITH MECHANICAL OR STRUCTURAL FEATURES; OTHERWISE, LOCATED TO SUIT CONDITIONS FIXED BY DESIGN AND SHOWN. RACEWAYS, JUNCTION AND OUTLET BOXES SHALL NOT BE SUPPORTED FROM SHEET METAL ROOF DECKS. IF ANY CONFLICTS OCCUR NECESSITATING DEPARTURES FROM THE DRAWINGS, DETAILS OF AND REASONS FOR DEPARTURES SHALL BE SUBMITTED AND APPROVED PRIOR TO IMPLEMENTING ANY CHANGE.

IN GENERAL, ALL WIRING SHALL BE CONCEALED. WIRING TO ALL WALL DEVICES SHALL BE CONCEALED WITHIN THE WALLS. WIRING TO CEILING OUTLETS SHALL GENERALLY BE CONCEALED BETWEEN THE CEILING AND THE FLOOR OR ROOF ABOVE. WHERE CONSTRUCTION REQUIRES EXPOSED WIRING, SURFACE RACEWAYS SHALL BE NEATLY ARRANGED PARALLEL AND PERPENDICULAR TO WALLS/FLOORS/CEILINGS WITH RIGHT ANGLE TURNS CONSISTING OF BENDS, FITTINGS, OR BOXES WHERE INDICATED.

CONDUITS SHALL BE OF SIZES REQUIRED BY THE NATIONAL ELECTRICAL CODE INCREASED AS REQUIRED TO INCLUDE BONDING CONDUCTOR AS SPECIFIED, MINIMUM 3/4". NO WIRE SHALL BE INSTALLED UNTIL WORK WHICH MIGHT CAUSE DAMAGE TO WIRES OR CONDUITS HAS BEEN COMPLETED. CONDUITS SHALL BE THOROUGHLY CLEANED OF WATER OR OTHER FOREIGN MATTER BEFORE WIRE IS INSTALLED. CONDUITS SHALL BE FASTENED BY SUITABLE GALVANIZED CLIPS OR APPROVED HANGERS. CLIPS AND BOXES SHALL BE FASTENED BY WOOD SCREWS

ON WOODEN SURFACES, MACHINE SCREWS ON METAL, TOGGLE BOLTS IN MASONRY BLOCK, OR BY EXPANSION SHIELDS IN CONCRETE. PARALLEL RUNS

OF CONDUIT SHALL BE NEATLY CLUSTERED WITH ALL BENDS AND OFFSETS OF UNIFORM PATTERN. ALL SPLICES SHALL BE MECHANICALLY AND ELECTRICALLY PERFECT, USING APPROVED SOLDERLESS WIRE CONNECTORS. SPLICES SHALL BE INSULATED EQUIVALENT TO INSULATION ON CONDUCTORS. NO SPLICES SHALL BE MADE IN FIRE ALARM SYSTEM WIRING, TERMINATIONS ONLY AT DEVICES. ALL EQUIPMENT SHALL BE IN FIRST-CLASS CONDITION AT TIME OF DELIVERY OF BUILDING TO OWNERS WITH ALL SCRATCHES, MARS,

3.2 CONDUIT, WIRE, AND BOXES

ETC., REFINISHED TO FACTORY STANDARDS.

CONDUCTORS FOR INITIATING, NOTIFICATION, AND ANNUNCIATION DEVICES SHALL BE SIZED AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS. ALL ASSOCIATED WIRING SHALL BE IN MINIMUM 3/4" CONDUIT WITH ALL LOOP WIRING MARKED AT ALL TERMINATIONS FOR IDENTIFICATION ON ASSOCIATED PRINTS AND AS OUTLINED BY THE NFPA-70 AND NFPA-72. ALL FIRE ALARM CIRCUITS SHALL BE INSTALLED IN A SEPARATE AND INDEPENDENT CONDUIT OR CABLE SYSTEM FROM OTHER ELECTRICAL CIRCUITS. INITIATING, NOTIFICATION, ANNUNCIATION, AND ALL OTHER FIRE ALARM SYSTEM CIRCUITS SHALL BE COLOR CODED CABLES AND IDENTIFIED BY NUMBER AT TERMINATION POINTS. ALL ASSOCIATED ELECTRICAL BOXES AND PULL BOXES SHALL BE IDENTIFIED BY HAVING THEIR COVERS PAINTED RED. UNDER NO CIRCUMSTANCES SHALL FIRE ALARM WIRE BE TY-WRAPPED TO EXISTING CONDUITS OR PIPES.

WIRING FOR ALL NOTIFICATION APPLAINCES ON A RESPECTIVE FLOOR SHALL BE RUN WITHIN THAT FLOOR SPACE AND SHALL RUN TO THE RESPECTIVE

ALL WIRING PENETRATING FLOORS AND WALLS SHALL BE RUN WITHIN AN EMT SLEEVE, FIRE STOP ALL SLEEVES AT EACH FLOOR LEVEL.

SHALL FLASH UNDER NORMAL CONDITIONS, INDICATING THAT THE DETECTOR IS OPERATIONAL AND IN REGULAR COMMUNICATION WITH THE 3.3 IDENTIFICATION

PROVIDE TAGS ON EACH END OF ALL PULL WIRES, ALL INTERCOMMUNICATION WIRES, ETC., GIVING LOCATION OF OTHER END. BRANCH CIRCUIT CONDUCTORS, CONDUCTORS THROUGHOUT THE BUILDING INCLUDING FEEDER CONDUCTORS, CONDUCTORS IN CONDUITS AND

CONDUCTORS IN WIREWAYS AND TRENCHES SHALL HAVE COLOR TO IDENTIFY VOLTAGE AND SERVICE SUPPLIED IN ACCORDANCE WITH THE FOLLOWING: ALL METALLIC BONDING CONDUCTORS - GREEN. ALL NEUTRAL CONDUCTORS (ALL SYSTEMS) - WHITE. PHASE CONDUCTORS OF 120/240 VOLT SYSTEM - BLACK AND RED.

ALL CIRCUIT CONDUCTORS OF THE SAME COLOR SHALL BE CONNECTED TO THE SAME UNGROUNDED FEEDER CONDUCTOR THROUGHOUT THE

INSTALLATION. CONDUCTORS OF DIFFERENT VOLTAGE SYSTEMS SHALL NOT ENTER SAME RACEWAY SYSTEMS. WHERE CONDUCTORS ARE NOT AVAILABLE IN THE COLORS INDICATED, DUE TO SIZE OR OTHER REASON, THE CONTRACTOR SHALL INSTALL IDENTIFYING ADHESIVE BANDS 3/4" WIDE OF COLORS INDICATED ABOVE AROUND EACH CONDUCTOR WITHIN SIX INCHES (6") AND TWELVE INCHES (12") OF EACH END AND AT A MAXIMUM OF FIVE FOOT (5') INTERVALS ALONG WIREWAYS, AT BACK OF PANELBOARDS, ETC., WHERE CONDUCTORS ARE ACCESSIBLE.

6. FIRE ALARM IDENTIFICATION: PROVIDE ADDRESS AND IDENTIFICATION LABELING INSTALLED ON THE BASES OF ALL ADDRESSABLE INITIATION AND ANNUNCIATION DEVICES NOTING CIRCUIT AND NODE IDENTIFICATION.

THE ENTIRE INSTALLATION SHALL BE FREE FROM SHORT CIRCUITS AND IMPROPER GROUNDS. TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEERS OR THEIR REPRESENTATIVES. EACH PANEL SHALL BE TESTED WITH MAINS DISCONNECTED FROM THE FEEDER, BRANCHES CONNECTED AND SWITCHES CLOSED, ALL FIXTURES IN PLACE AND PERMANENTLY CONNECTED, LAMPS REMOVED OR OMITTED FROM THE SOCKETS, AND ALL WALL

EACH SYSTEM SHALL BE COMPLETELY TESTED AND SHALL BE ADJUSTED FOR PROPER OPERATION AS REQUIRED BY THE ARCHITECTS. FIRE ALARM CERTIFICATION AND TESTING: TESTS SHALL BE PERFORMED BY THE CONTRACTOR AND THE MANUFACTURERS REPRESENTATIVE. THE COMPLETED SYSTEM SHALL BE TESTED FOR PROPER OPERATION, CODE COMPLIANCE, AND COMPLIANCE TO THIS STANDARD. THE CONTRACTOR AND THE MANUFACTURER'S REPRESENTATIVE SHALL SIGN A LETTER ATTESTING TO THE COMPLETION OF TESTING AND ITS COMPLIANCE TO ITEMS OUTLINED ABOVE. TESTING SHALL BE PERFORMED AT A TIME CONVENIENT TO THE OWNER.

3.5 CONTINUITY OF SERVICE AND SCHEDULE OF WORK A. ALL WORK SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER AND SHALL PROVIDE REQUIRED COVERAGE AT ALL TIMES.

TEST IN ACCORDANCE WITH NFPA 72 AND LOCAL FIRE DEPARTMENT REQUIREMENTS. SEE SUBMITTALS ITEM ABOVE. TEST SHALL INCLUDE BUT NOT BE LIMITED TO:

BEFORE ENERGIZING THE CABLES AND WIRES, CHECK FOR CORRECT CONNECTIONS AND TEST FOR SHORT CIRCUITS, GROUND FAULTS, CONTINUITY, AND INSULATION.

CLOSE EACH SPRINKLER SYSTEM FLOW VALVE AND VERIFY PROPER SUPERVISORY ALARM AT THE FACP. VERIFY ACTIVATION OF ALL FLOW SWITCHES.

VERIFY ACTIVATION/ACTUATION OF SMOKE DAMPERS UPON SENSING OF SMOKE BY THE RESPECTIVE IN DUCT SMOKE DETECTOR.

OPEN INITIATING DEVICE CIRCUITS AND VERIFY THAT THE TROUBLE SIGNAL ACTUATES. OPEN SIGNALING LINE CIRCUITS AND VERIFY THAT THE TROUBLE SIGNAL ACTUATES.

OPEN AND SHORT NOTIFICATION APPLIANCE CIRCUITS AND VERIFY THAT TROUBLE SIGNAL ACTUATES. OPEN AND SHORT (WIRE ONLY) NETWORK COMMUNICATIONS AND VERIFY THAT TROUBLE SIGNALS ARE RECEIVED AT NETWORK

ANNUNCIATORS OR REPORTING TERMINALS.

GROUND INITIATING DEVICE CIRCUITS AND VERIFY RESPONSE OF TROUBLE SIGNALS. GROUND SIGNALING LINE CIRCUITS AND VERIFY RESPONSE OF TROUBLE SIGNALS.

GROUND NOTIFICATION APPLIANCE CIRCUITS AND VERIFY RESPONSE OF TROUBLE SIGNALS.

12. CHECK ALERT TONE AND PRERECORDED VOICE MESSAGE TO ALL ALARM NOTIFICATION DEVICES. 13. CHECK INSTALLATION, SUPERVISION, AND OPERATION OF ALL INTELLIGENT SMOKE DETECTORS USING WALK TEST.

14. EACH OF THE ALARM CONDITIONS THAT THE SYSTEM IS REQUIRED TO DETECT SHALL BE INTRODUCED ON THE SYSTEM. VERIFY THE PROPER RECEIPT AND THE PROPER PROCESSING OF THE SIGNAL AT THE FACP AND THE CORRECT ACTIVATION OF THE CONTROL PANEL POINTS. 15. WHEN THE VENDOR DETERMINES THAT THE SYSTEM MUST BE EQUIPPED WITH OPTIONAL FEATURES TO SATISFY THIS SPECIFICATION, THE

MANUFACTURER'S MANUAL SHALL BE CONSULTED TO DETERMINE THE PROPER TESTING PROCEDURES. THIS IS INTENDED TO ADDRESS SUCH ITEMS AS VERIFYING CONTROLS PERFORMED BY INDIVIDUALLY ADDRESSED OR GROUPED DEVICES, SENSITIVITY MONITORING, VERIFICATION FUNCTIONALITY AND SIMILAR. MANUFACTURER'S FIELD SERVICES

PROVIDE THE SERVICES OF A FACTORY TRAINED, AUTHORIZED TECHNICAL REPRESENTATIVE OF THE MANUFACTURER TO SUPERVISE THE INSTALLATION AND FINAL CONNCETIONS, PLUS ADJUSTING, PROGRAMMING AND ALL TESTING OF THE SYSTEM TO ASSURE A COMPLETE AND FULLY OPERATIVE FACILITY, AND TO INSTRUCT DESIGNATED PERSONNEL IN THE OPERATION, ADJUSTMENT, TESTING AND MAINTENANCE OS THE SYSTEM. PROVIDE MINIMUM 4-HOURS OF TIME, AT OWNER'S CHOOSING, TRAINING AND DEMONSTRATING TO OWNER. PROVIDE LETTER CERTIFYING RESULTS OF ALL TESTING.

3.8 POST CONTRACT MAINENANCE A. BEGINNING AT SUBSTANTIAL COMPLETION, MAINTENANCE SERVICE SHALL INCLUDE 12 MONTHS OF FULL MAINTENANCE BY SKILLED EMPLOYEES OF THE MANUFACTURER'S DESIGNATED SERVIC E ORGANIZATION. INCLUDE PREVENTATIVE MAINTENANCE, REPAIR OR REPLACEMENT OF WORN OR DEFECTIVE COMPONENTS, LUBRICATION, CLEANING, AND ADJSUTING AS REQUIRED FOR POPER OPERATION. PARTS AND SUPPLIES SHALL BE MANUFACTURER'S

AUTHORIZED NEW REPLACEMENT PARTS AND SUPPLIES. 1. INCLUDE VISUAL INSPECTIONS. 2. PERFORM TESTS.

3. COMPLY WITH SANFORD FIRE DEPARTMENT MANDATES FOR TEST AND INSPECTIONS.

COMPLETE MAINTENANCE AND REPAIR SERVICE FOR THE FIRE ALARM SYSTEM SHALL BE AVAILABLE FROM A FACTORY TRAINED AUTHORIZED REPRESENTATIVE FOR A PERIOD OF FIVE (5) YEARS AFTER EXPIRATION OF THE ONE (1) YEAR GUARANTY PERIOD.

AS PART OF THE SUBMITTAL, INCLUDE A QUOTE FOR A MAINTENANCE CONTRATC TO PROVIDE ALL MAINTENANCE, TESTING, AND REPAIR DESCRIBED BELOW. INCLUDE ALSO A QUOTE FOR UNSCHEDULED MAINTENANCE/REPAIR INCLUDING HOURLY RATES FOR TECHNICIANS TRAINED ON THIS EQUIPMENT, AND RESPONSE TRAVEL COSTS. SUBMITTALS THAT DO NOT IDENTIFY ALL POST CONTRACT MAINTENANCE COSTS WILL NOT BE ACCEPTED. RATES AND COSTS SHALL BE VALID FOR A FIVE (5) YEAR PERIOD AFTER THE EXPIRATION OF THE GUARANTY PERIOD.

MAINTENANCE AND TESTING SHALL BE ON A SEMIANNUAL BASIS OR AS REQUIRED BY THE LOCAL AHJ. A PREVENTATIVE MAINTENANCE SCHEDULE SHALL BE PROVIDED WHICH DESCRIBES THE PROTOCOL FRO PREVENTATIVE MAINTENANCE. THE SCHEDULE SHALL INCLUDE: 1. SYSTEMATIC EXAMINATION, ADJUSTMENT AND CLEANING OF ALL DETECTORS, MANUAL FIRE ALARM STATIONS, CONTROL PANELS, POWER SUPPLIES, RELAYS, WATER FLOW SWITCHES AND ALL ACCESSORIES OF THE FIRE ALARM SYSTEM.

2. EACH CIRCUIT IN THE FIRE ALARM SYSTEM SHALL BE TESTED SEMI-ANNUALLY. 3. EACH SMOKE DETECTOR SHALL BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA-72.

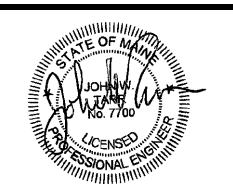
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SUNSET TOWER

22012

941	Main	Stre
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Project No Key Plan



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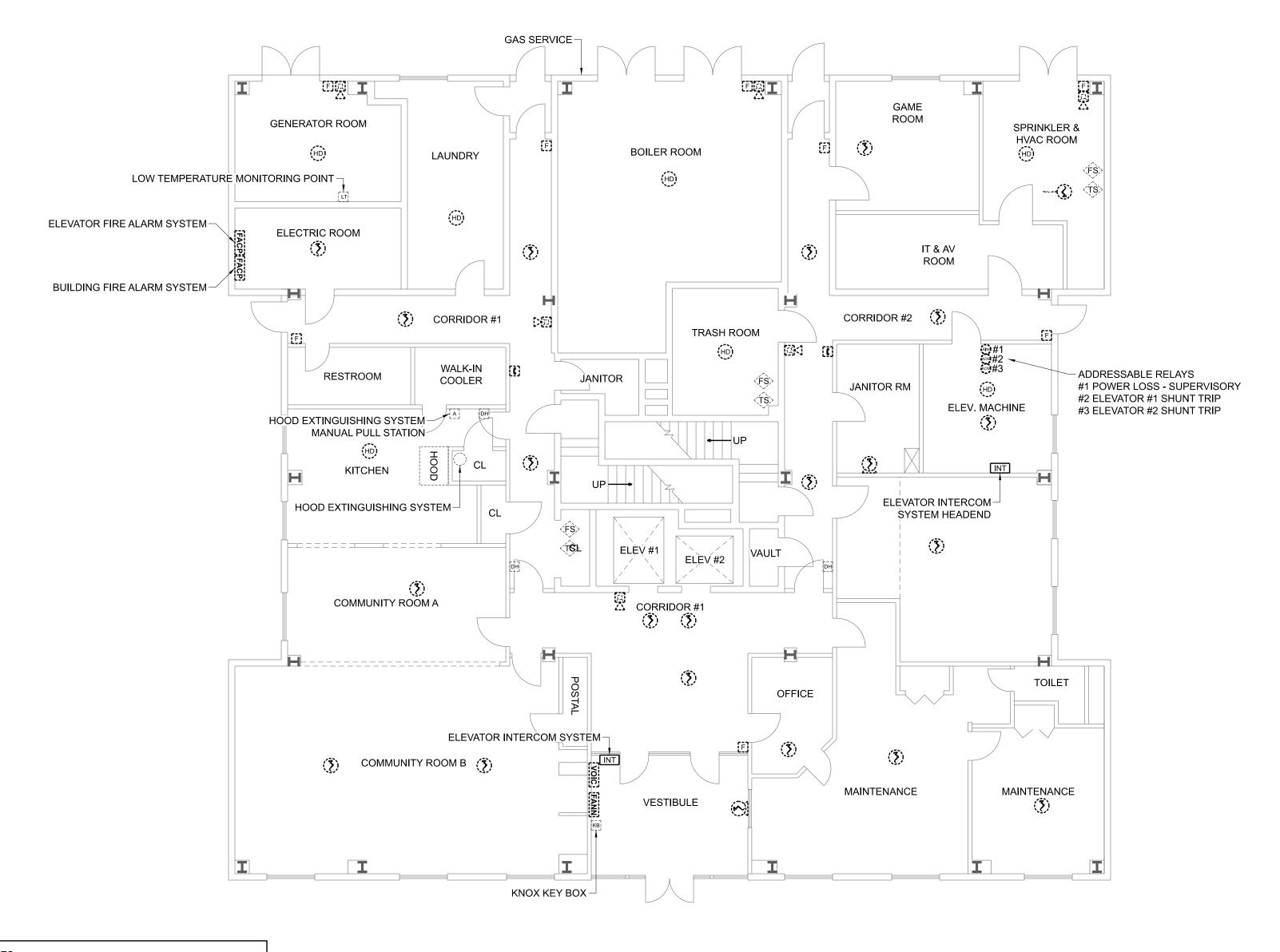
October 25, 2023

Rev Date Revision Description

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ELECTRICAL

Drawn By: JWT



COMPLETELY REMOVE ALL COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM INCLUDING CABLING, AFTER THE NEW SYSTEM HAS BEEN INSTALLED AND TESTED AND IS FULLY FUNCTIONAL.

AT CONTRACTORS OPTION, AFTER INSPECTION OF AND VERIFICATION THAT CABLES ARE IN GOOD CONDITION, APPROVED FOR USE AND COMPATIBLE, THE EXISTING RISER CABLES MAY BE REUSED PROVIDING THAT REUSE DOES NOT PRESENT PHASING ISSUES.

NOTES:

PRIOR TO CORING OR DRILLING ANY HOLES IN CONCRETE SLABS (FLOORS/CEILINGS), PROVIDE X-RAY STUDY DOCUMENTING LOCATIONS OF ALL POST-TENSIONED CABLES AND REVIEW WITH OWNER. CORING SHALL AVOID ALL POST-TENSIONED CABLES.

SMOKE DETECTORS IN APARTMENTS INDICATED ON WALLS, AT CONTRACTORS OPTION MAY BE LOCATED ON CEILING EXACT FINAL LOCATION OF ALL SMOKE DETECTORS SHALL AVOID FANS, CLOSE PROXIMITY TO BATHROOMS,

RANGES AND OTHER ITEMS THAT MAY EFFECT PROPER OPERATION.

PRIOR TO CUTTING OR DRILLING INTO POTENTIALLY ASBESTOS CONTAINING MATERIALS, OSHA STANDARD PRATICES SHALL BE FOLLOWED AND PRECAUTIONS SHALL BE TAKEN TO MINIMIZE DUST AND DEBRIS. THE FOLLOWING MINIMUM PRACTICES SHALL BE FOLLOWED:

@ WET METHODS [e.g., AMENDED WATER, SHAVING CREAM, OR WALLPAPER PASTE], PER §1926.1101(g)(1)(ii) AND §1926.1101(g)(9)(i)

@ LOCAL EXHAUST VENTILATION TO THE EXTENT FEASIBLE [e.g., A DRILL FITTED WITH A HEPA-VACUUM ATTAHCMENT], PER §1926.1101(g)(9)(ii)

@VACUUM CLEANERS EQUIPPED WITH HEPA FILTERS TO COLLECT ALL ACM DEBRIS [e.g., A HEPA-FILTERED SHOP VACUUM], PER §1926.1101(g)(1)(i); AND

@PROMPT CLEAN-UP AND DISPOSAL OF WASTES AND DEBRIS CONTAMINATED WITH ASBESTOS IN LEAK-TIGHT CONTAINERS [e.g.,
A SIX (6) MIL, LABELED, WASTE BAG], PER §1926.1101(g)(1)(iii).

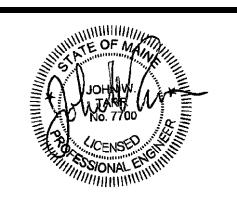
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SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

•	Project No.	22012
	Key Plan	Proj No



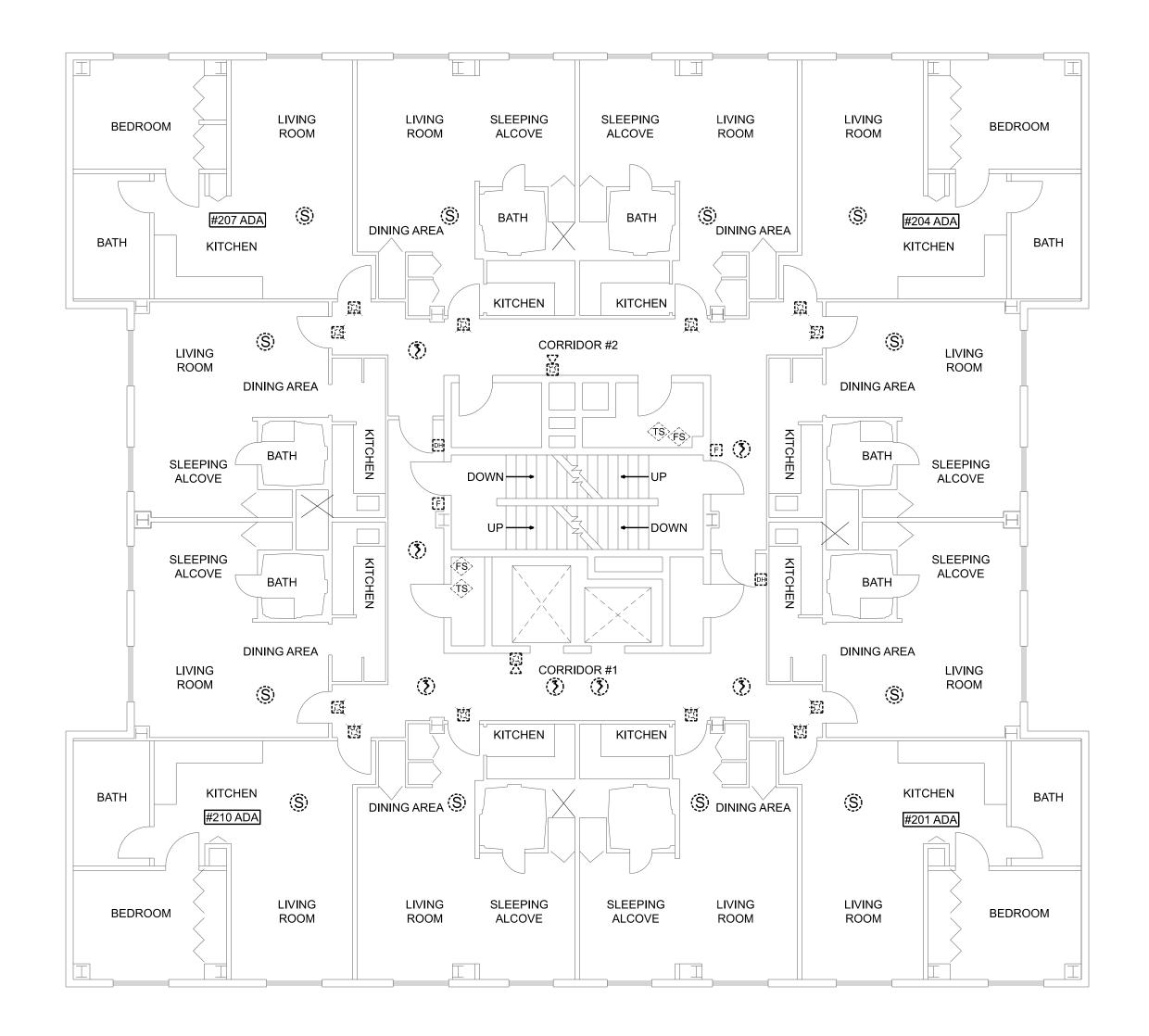
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	Rev Date	Revision Description
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FIRE ALARM
EXISTING CONDITIONS
FIRST FLOOR PLAN



COMPLETELY REMOVE ALL COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM INCLUDING CABLING, AFTER THE NEW SYSTEM HAS BEEN INSTALLED AND TESTED AND IS FULLY FUNCTIONAL.

AT CONTRACTORS OPTION, AFTER INSPECTION OF AND VERIFICATION THAT CABLES ARE IN GOOD CONDITION,

APPROVED FOR USE AND COMPATIBLE, THE EXISTING RISER CABLES MAY BE REUSED PROVIDING THAT REUSE DOES NOT PRESENT PHASING ISSUES.

NOTES:

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SMOKE DETECTORS IN APARTMENTS INDICATED ON WALLS, AT CONTRACTORS OPTION MAY BE LOCATED ON CEILING EXACT FINAL LOCATION

OF ALL SMOKE DETECTORS SHALL AVOID FANS, CLOSE PROXIMITY TO BATHROOMS, RANGES AND OTHER ITEMS THAT MAY EFFECT PROPER OPERATION.

PRIOR TO CUTTING OR DRILLING INTO POTENTIALLY ASBESTOS CONTAINING MATERIALS, OSHA STANDARD PRATICES SHALL BE FOLLOWED AND PRECAUTIONS SHALL BE TAKEN TO MINIMIZE DUST AND DEBRIS. THE FOLLOWING MINIMUM PRACTICES SHALL BE FOLLOWED: WET METHODS [e.g., AMENDED WATER, SHAVING CREAM, OR WALLPAPER PASTE], PER §1926.1101(g)(1)(ii) AND §1926.1101(g)(9)(i) ® LOCAL EXHAUST VENTILATION TO THE EXTENT FEASIBLE [e.g., A DRILL FITTED WITH A HEPA-VACUUM ATTAHCMENT], PER §1926.1101(g)(9)(ii)

@VACUUM CLEANERS EQUIPPED WITH HEPA FILTERS TO COLLECT ALL ACM DEBRIS [e.g., A HEPA-FILTERED SHOP VACUUM], PER §1926.1101(g)(1)(i); AND @PROMPT CLEAN-UP AND DISPOSAL OF WASTES AND DEBRIS CONTAMINATED WITH ASBESTOS IN LEAK-TIGHT CONTAINERS [e.g., A SIX (6) MIL, LABELED, WASTE BAG], PER §1926.1101(g)(1)(iii).

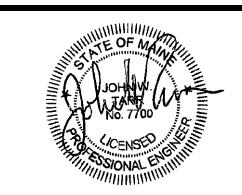
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SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

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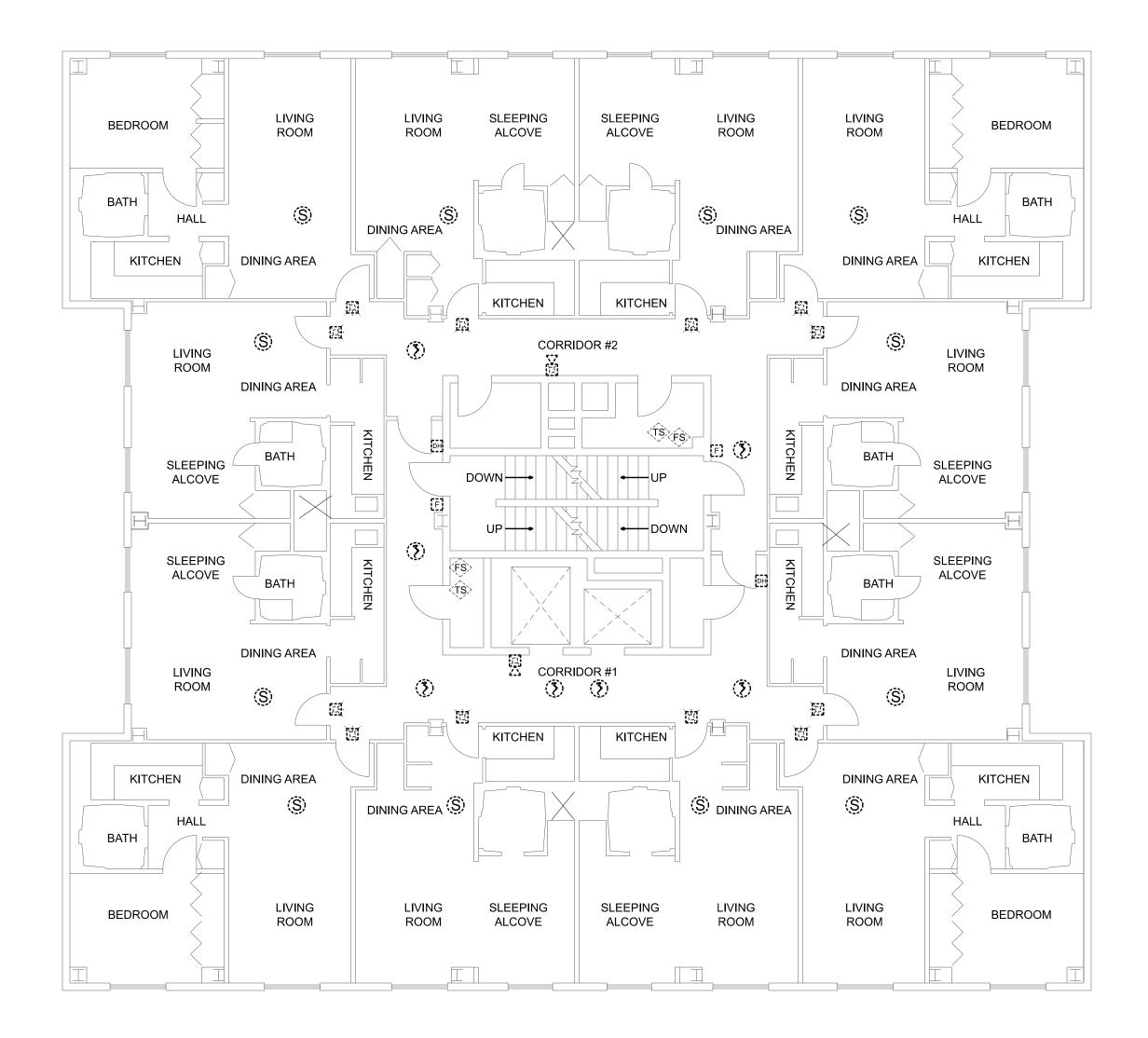
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FIRE ALARM **EXISTING CONDITIONS** SECOND FLOOR PLAN



COMPLETELY REMOVE ALL COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM INCLUDING CABLING, AFTER THE NEW SYSTEM HAS BEEN INSTALLED AND TESTED AND IS FULLY FUNCTIONAL.

AT CONTRACTORS OPTION, AFTER INSPECTION OF AND VERIFICATION THAT CABLES ARE IN GOOD CONDITION,

APPROVED FOR USE AND COMPATIBLE, THE EXISTING RISER CABLES MAY BE REUSED PROVIDING THAT REUSE DOES NOT PRESENT PHASING ISSUES.

NOTES:

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SMOKE DETECTORS IN APARTMENTS INDICATED ON WALLS, AT CONTRACTORS OPTION MAY BE LOCATED ON CEILING EXACT FINAL LOCATION

OF ALL SMOKE DETECTORS SHALL AVOID FANS, CLOSE PROXIMITY TO BATHROOMS, RANGES AND OTHER ITEMS THAT MAY EFFECT PROPER OPERATION.

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@PROMPT CLEAN-UP AND DISPOSAL OF WASTES AND DEBRIS CONTAMINATED WITH ASBESTOS IN LEAK-TIGHT CONTAINERS [e.g.,

A SIX (6) MIL, LABELED, WASTE BAG], PER §1926.1101(g)(1)(iii).

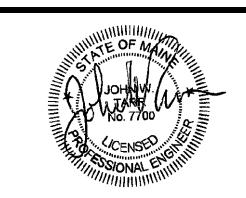
TARR Engineering

tarreng@outlook.com 207-212-6022 - New Gloucester, Maine

SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

Project No.	22012
Key Plan	Proj North



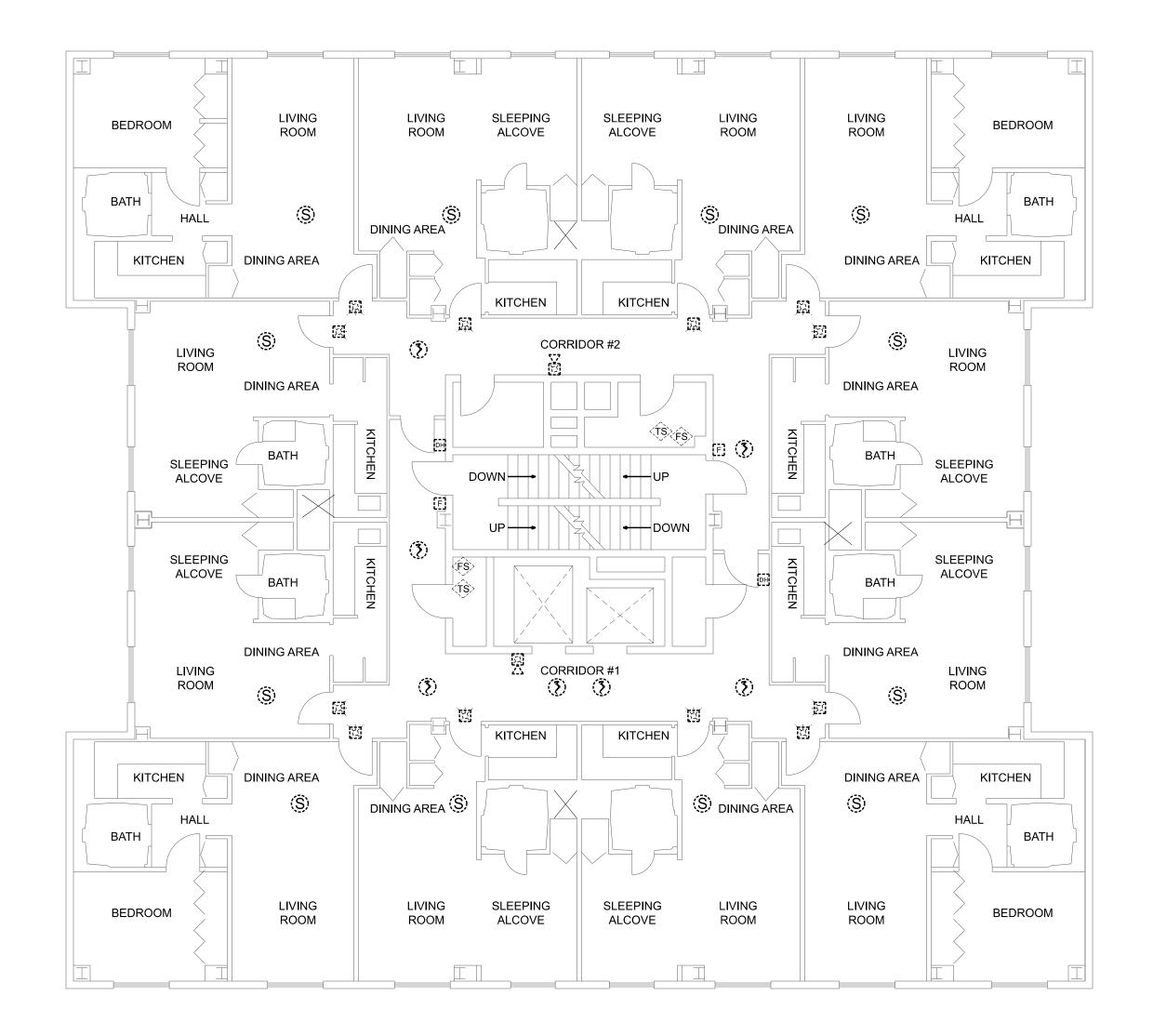
CONSTRUCTION DOCUMENTS

October 25, 2023

Rev Date	Revision Description

	Drawing Scales 1/8" = 1'-0"	0 4' 8' 12'
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FIRE ALARM
EXISTING CONDITIONS
THIRD FLOOR PLAN



COMPLETELY REMOVE ALL COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM INCLUDING CABLING, AFTER THE NEW SYSTEM HAS BEEN INSTALLED AND TESTED AND IS FULLY FUNCTIONAL.

AT CONTRACTORS OPTION, AFTER INSPECTION OF AND VERIFICATION THAT CABLES ARE IN GOOD CONDITION,

APPROVED FOR USE AND COMPATIBLE, THE EXISTING RISER CABLES MAY BE REUSED PROVIDING THAT REUSE DOES NOT PRESENT PHASING ISSUES.

NOTES:

PRIOR TO CORING OR DRILLING ANY HOLES IN CONCRETE SLABS (FLOORS/CEILINGS), PROVIDE X-RAY STUDY DOCUMENTING LOCATIONS OF ALL POST-TENSIONED CABLES AND REVIEW WITH OWNER. CORING SHALL AVOID ALL POST-TENSIONED CABLES.

SMOKE DETECTORS IN APARTMENTS INDICATED ON WALLS, AT CONTRACTORS OPTION MAY BE LOCATED ON CEILING EXACT FINAL LOCATION

OF ALL SMOKE DETECTORS SHALL AVOID FANS, CLOSE PROXIMITY TO BATHROOMS, RANGES AND OTHER ITEMS THAT MAY EFFECT PROPER OPERATION.

PRIOR TO CUTTING OR DRILLING INTO POTENTIALLY ASBESTOS CONTAINING MATERIALS, OSHA STANDARD PRATICES SHALL BE FOLLOWED AND PRECAUTIONS SHALL BE TAKEN TO MINIMIZE DUST AND DEBRIS. THE FOLLOWING MINIMUM PRACTICES SHALL BE FOLLOWED: ® WET METHODS [e.g., AMENDED WATER, SHAVING CREAM, OR WALLPAPER PASTE], PER §1926.1101(g)(1)(ii) AND §1926.1101(g)(9)(i) ® LOCAL EXHAUST VENTILATION TO THE EXTENT FEASIBLE [e.g., A DRILL FITTED WITH A HEPA-VACUUM ATTAHCMENT], PER §1926.1101(g)(9)(ii) @VACUUM CLEANERS EQUIPPED WITH HEPA FILTERS TO COLLECT ALL ACM DEBRIS [e.g., A HEPA-FILTERED SHOP VACUUM], PER §1926.1101(g)(1)(i); AND @PROMPT CLEAN-UP AND DISPOSAL OF WASTES AND DEBRIS CONTAMINATED WITH ASBESTOS IN LEAK-TIGHT CONTAINERS [e.g., A SIX (6) MIL, LABELED, WASTE BAG], PER §1926.1101(g)(1)(iii).

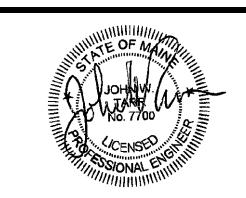
TARR Engineering

tarreng@outlook.com 207-212-6022 - New Gloucester, Maine

SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

Project No.	22012
Key Plan	Proj North



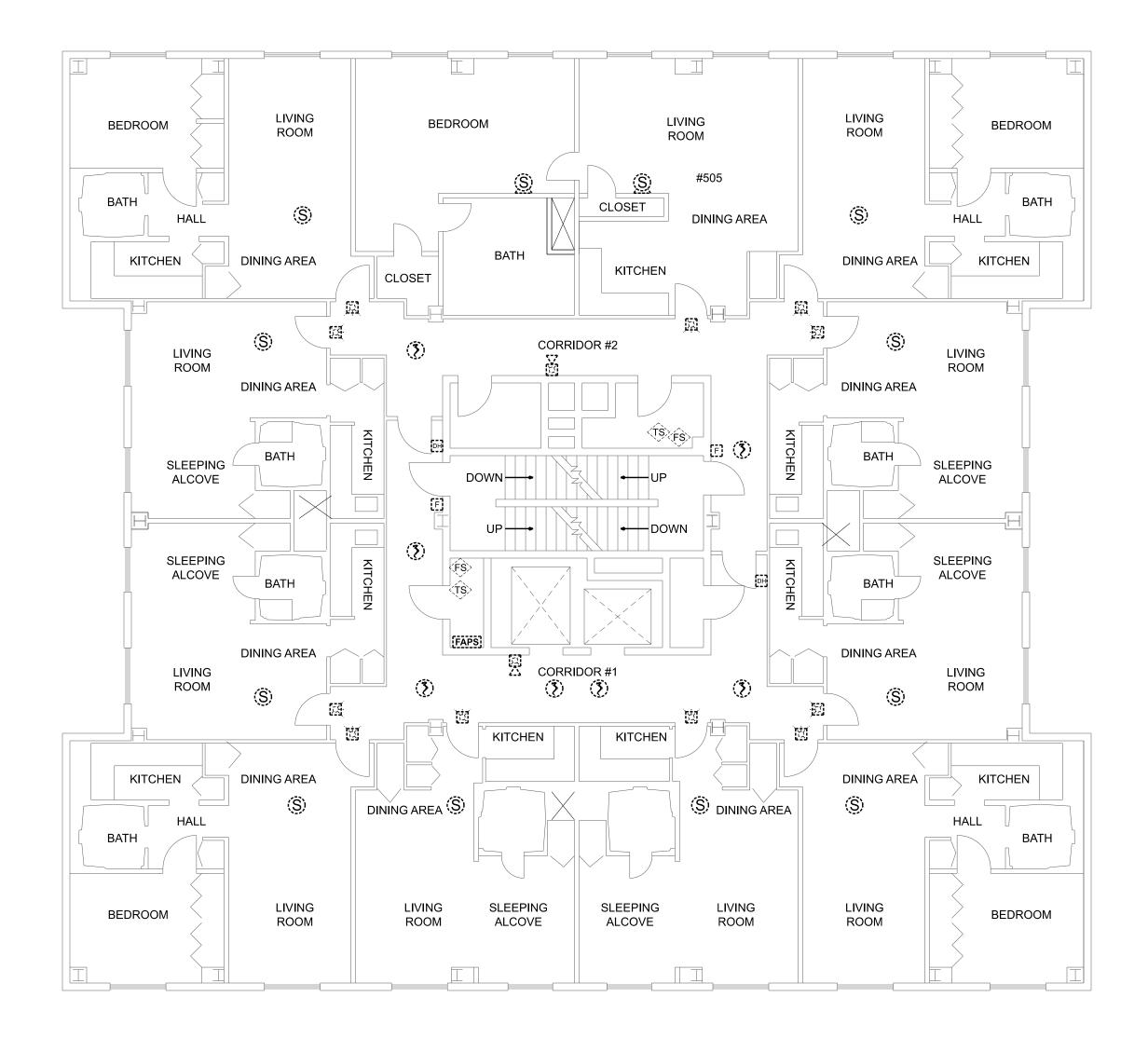
CONSTRUCTION DOCUMENTS

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FIRE ALARM **EXISTING CONDITIONS** FOURTH FLOOR PLAN



COMPLETELY REMOVE ALL COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM INCLUDING CABLING, AFTER THE NEW SYSTEM HAS BEEN INSTALLED AND TESTED AND IS FULLY FUNCTIONAL.

AT CONTRACTORS OPTION, AFTER INSPECTION OF AND VERIFICATION THAT CABLES ARE IN GOOD CONDITION, APPROVED FOR USE AND COMPATIBLE, THE EXISTING RISER CABLES MAY BE REUSED

PROVIDING THAT REUSE DOES NOT PRESENT PHASING ISSUES.

NOTES:

PRIOR TO CORING OR DRILLING ANY HOLES IN CONCRETE SLABS (FLOORS/CEILINGS), PROVIDE X-RAY STUDY DOCUMENTING LOCATIONS
OF ALL POST-TENSIONED CABLES AND REVIEW WITH OWNER. CORING SHALL AVOID ALL POST-TENSIONED CABLES.

SMOKE DETECTORS IN APARTMENTS INDICATED ON WALLS, AT CONTRACTORS OPTION MAY BE LOCATED ON CEILING EXACT FINAL LOCATION

OF ALL SMOKE DETECTORS SHALL AVOID FANS, CLOSE PROXIMITY TO BATHROOMS, RANGES AND OTHER ITEMS THAT MAY EFFECT PROPER OPERATION.

PRIOR TO CUTTING OR DRILLING INTO POTENTIALLY ASBESTOS CONTAINING MATERIALS, OSHA STANDARD PRATICES SHALL BE FOLLOWED AND PRECAUTIONS SHALL BE TAKEN TO MINIMIZE DUST AND DEBRIS. THE FOLLOWING MINIMUM PRACTICES SHALL BE FOLLOWED:

@ WET METHODS [e.g., AMENDED WATER, SHAVING CREAM, OR WALLPAPER PASTE], PER §1926.1101(g)(1)(ii) AND §1926.1101(g)(9)(i)

@ LOCAL EXHAUST VENTILATION TO THE EXTENT FEASIBLE [e.g., A DRILL FITTED WITH A HEPA-VACUUM ATTAHCMENT], PER §1926.1101(g)(9)(ii)

@VACUUM CLEANERS EQUIPPED WITH HEPA FILTERS TO COLLECT ALL ACM DEBRIS [e.g., A HEPA-FILTERED SHOP VACUUM], PER §1926.1101(g)(1)(i); AND

@PROMPT CLEAN-UP AND DISPOSAL OF WASTES AND DEBRIS CONTAMINATED WITH ASBESTOS IN LEAK-TIGHT CONTAINERS [e.g.,

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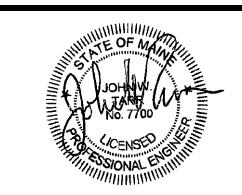
TARR Engineering

tarreng@outlook.com 207-212-6022 - New Gloucester, Maine

SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

Project No.	22012
Key Plan	Proj Nor



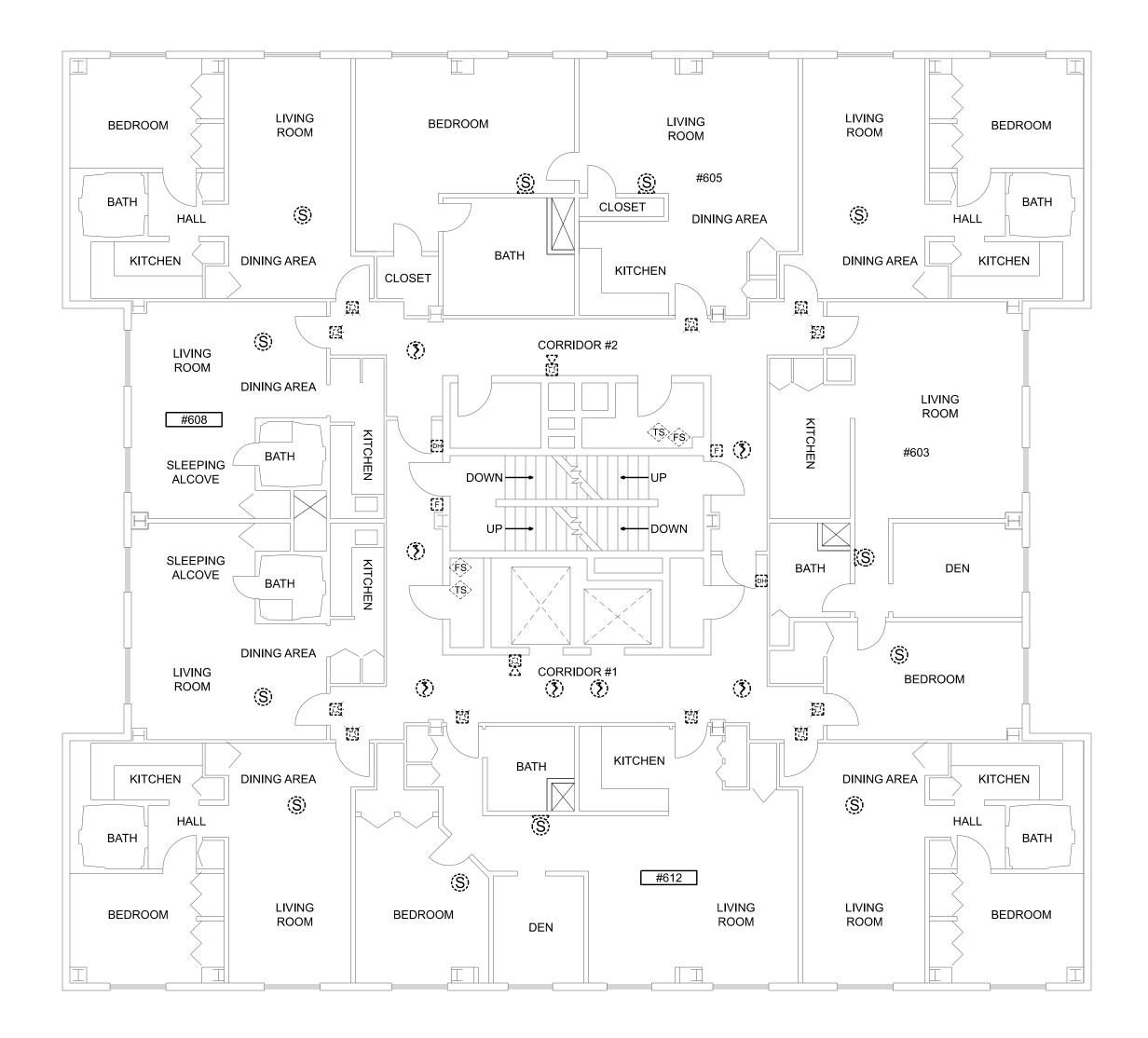
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FIRE ALARM EXISTING CONDITIONS FIFTH FLOOR PLAN



COMPLETELY REMOVE ALL COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM INCLUDING CABLING, AFTER THE NEW SYSTEM HAS BEEN INSTALLED AND TESTED AND IS FULLY FUNCTIONAL.

AT CONTRACTORS OPTION, AFTER INSPECTION OF AND VERIFICATION THAT CABLES ARE IN GOOD CONDITION,

APPROVED FOR USE AND COMPATIBLE, THE EXISTING RISER CABLES MAY BE REUSED PROVIDING THAT REUSE DOES NOT PRESENT PHASING ISSUES.

NOTES:

PRIOR TO CORING OR DRILLING ANY HOLES IN CONCRETE SLABS (FLOORS/CEILINGS), PROVIDE X-RAY STUDY DOCUMENTING LOCATIONS OF ALL POST-TENSIONED CABLES AND REVIEW WITH OWNER. CORING SHALL AVOID ALL POST-TENSIONED CABLES.

SMOKE DETECTORS IN APARTMENTS INDICATED ON WALLS, AT CONTRACTORS OPTION MAY BE LOCATED ON CEILING EXACT FINAL LOCATION

OF ALL SMOKE DETECTORS SHALL AVOID FANS, CLOSE PROXIMITY TO BATHROOMS,

RANGES AND OTHER ITEMS THAT MAY EFFECT PROPER OPERATION.

PRIOR TO CUTTING OR DRILLING INTO POTENTIALLY ASBESTOS CONTAINING MATERIALS, OSHA STANDARD PRATICES SHALL BE FOLLOWED AND PRECAUTIONS SHALL BE TAKEN TO MINIMIZE DUST AND DEBRIS. THE FOLLOWING MINIMUM PRACTICES SHALL BE FOLLOWED: WET METHODS [e.g., AMENDED WATER, SHAVING CREAM, OR WALLPAPER PASTE], PER §1926.1101(g)(1)(ii) AND §1926.1101(g)(9)(i) @VACUUM CLEANERS EQUIPPED WITH HEPA FILTERS TO COLLECT ALL ACM DEBRIS [e.g., A HEPA-FILTERED SHOP VACUUM], PER §1926.1101(g)(1)(i); AND @PROMPT CLEAN-UP AND DISPOSAL OF WASTES AND DEBRIS CONTAMINATED WITH ASBESTOS IN LEAK-TIGHT CONTAINERS [e.g., A SIX (6) MIL, LABELED, WASTE BAG], PER §1926.1101(g)(1)(iii).

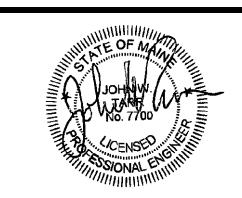
TARR Engineering

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SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

Project No.	22012
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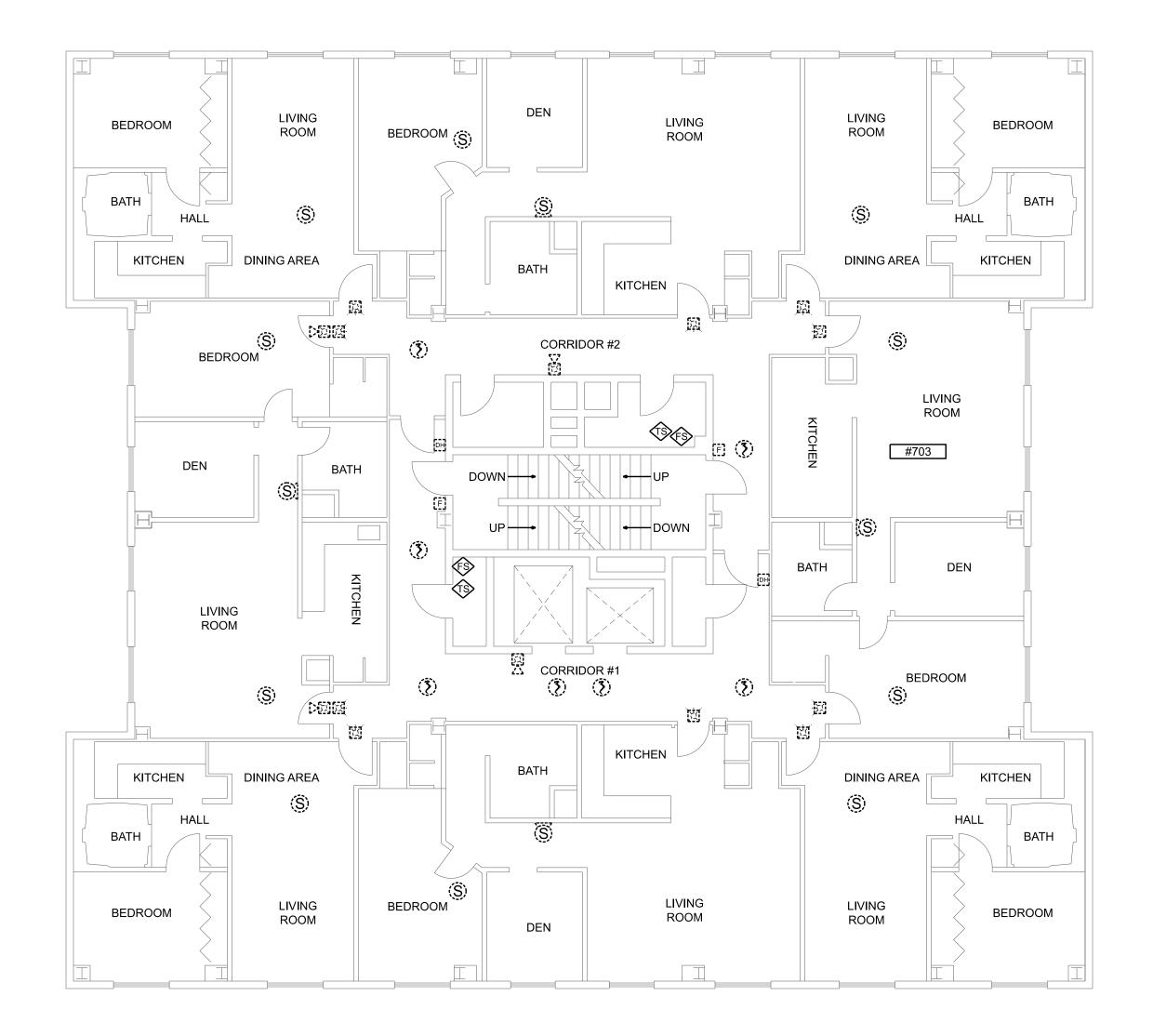
CONSTRUCTION DOCUMENTS

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FIRE ALARM **EXISTING CONDITIONS** SIXTH FLOOR PLAN



COMPLETELY REMOVE ALL COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM INCLUDING CABLING, AFTER THE NEW SYSTEM HAS BEEN INSTALLED AND TESTED AND IS FULLY FUNCTIONAL.

AT CONTRACTORS OPTION, AFTER INSPECTION OF AND VERIFICATION THAT CABLES ARE IN GOOD CONDITION,

APPROVED FOR USE AND COMPATIBLE, THE EXISTING RISER CABLES MAY BE REUSED PROVIDING THAT REUSE DOES NOT PRESENT PHASING ISSUES.

NOTES:

PRIOR TO CORING OR DRILLING ANY HOLES IN CONCRETE SLABS (FLOORS/CEILINGS), PROVIDE X-RAY STUDY DOCUMENTING LOCATIONS OF ALL POST-TENSIONED CABLES AND REVIEW WITH OWNER. CORING SHALL AVOID ALL POST-TENSIONED CABLES.

SMOKE DETECTORS IN APARTMENTS INDICATED ON WALLS, AT CONTRACTORS OPTION MAY BE LOCATED ON CEILING EXACT FINAL LOCATION

OF ALL SMOKE DETECTORS SHALL AVOID FANS, CLOSE PROXIMITY TO BATHROOMS, RANGES AND OTHER ITEMS THAT MAY EFFECT PROPER OPERATION.

PRIOR TO CUTTING OR DRILLING INTO POTENTIALLY ASBESTOS CONTAINING MATERIALS, OSHA STANDARD PRATICES SHALL BE FOLLOWED AND PRECAUTIONS SHALL BE TAKEN TO MINIMIZE DUST AND DEBRIS. THE FOLLOWING MINIMUM PRACTICES SHALL BE FOLLOWED: ® WET METHODS [e.g., AMENDED WATER, SHAVING CREAM, OR WALLPAPER PASTE], PER §1926.1101(g)(1)(ii) AND §1926.1101(g)(9)(i) @ LOCAL EXHAUST VENTILATION TO THE EXTENT FEASIBLE [e.g., A DRILL FITTED WITH A HEPA-VACUUM ATTAHCMENT], PER §1926.1101(g)(9)(ii) @VACUUM CLEANERS EQUIPPED WITH HEPA FILTERS TO COLLECT ALL ACM DEBRIS [e.g., A HEPA-FILTERED SHOP VACUUM], PER §1926.1101(g)(1)(i); AND @PROMPT CLEAN-UP AND DISPOSAL OF WASTES AND DEBRIS CONTAMINATED WITH ASBESTOS IN LEAK-TIGHT CONTAINERS [e.g., A SIX (6) MIL, LABELED, WASTE BAG], PER §1926.1101(g)(1)(iii).

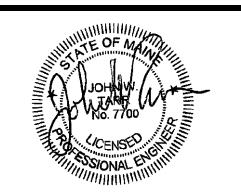
TARR Engineering

tarreng@outlook.com 207-212-6022 - New Gloucester, Maine

SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

Project No.	22012
Key Plan	Proj North



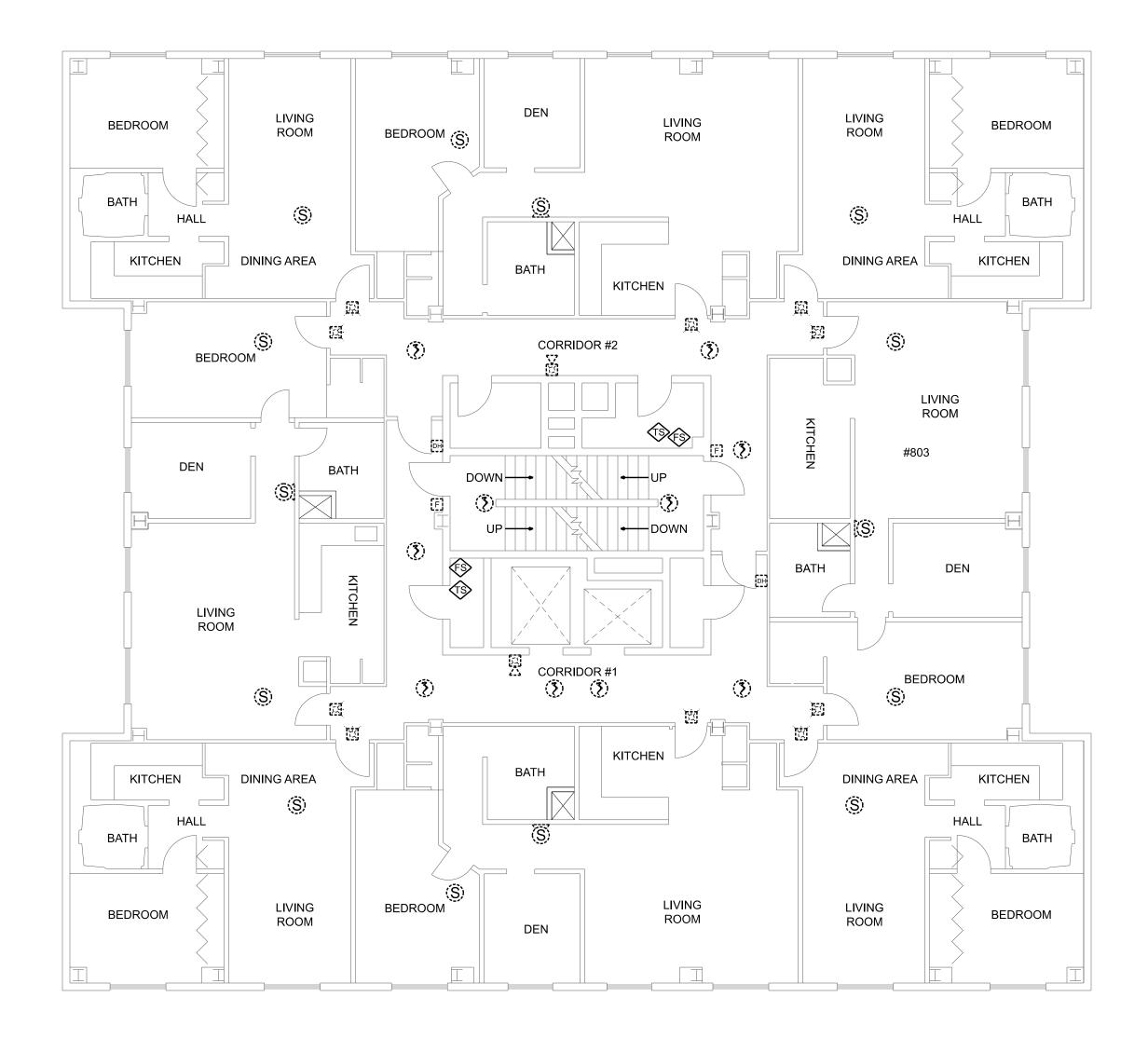
CONSTRUCTION DOCUMENTS

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FIRE ALARM **EXISTING CONDITIONS** SEVENTH FLOOR PLAN



COMPLETELY REMOVE ALL COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM INCLUDING CABLING, AFTER THE NEW SYSTEM HAS BEEN INSTALLED AND TESTED AND IS FULLY FUNCTIONAL.

AT CONTRACTORS OPTION, AFTER INSPECTION OF AND VERIFICATION THAT CABLES ARE IN GOOD CONDITION,

APPROVED FOR USE AND COMPATIBLE, THE EXISTING RISER CABLES MAY BE REUSED PROVIDING THAT REUSE DOES NOT PRESENT PHASING ISSUES.

NOTES:

PRIOR TO CORING OR DRILLING ANY HOLES IN CONCRETE SLABS (FLOORS/CEILINGS), PROVIDE X-RAY STUDY DOCUMENTING LOCATIONS OF ALL POST-TENSIONED CABLES AND REVIEW WITH OWNER. CORING SHALL AVOID ALL POST-TENSIONED CABLES.

SMOKE DETECTORS IN APARTMENTS INDICATED ON WALLS, AT CONTRACTORS OPTION MAY BE LOCATED ON CEILING EXACT FINAL LOCATION

OF ALL SMOKE DETECTORS SHALL AVOID FANS, CLOSE PROXIMITY TO BATHROOMS, RANGES AND OTHER ITEMS THAT MAY EFFECT PROPER OPERATION.

PRIOR TO CUTTING OR DRILLING INTO POTENTIALLY ASBESTOS CONTAINING MATERIALS, OSHA STANDARD PRATICES SHALL BE FOLLOWED AND PRECAUTIONS SHALL BE TAKEN TO MINIMIZE DUST AND DEBRIS. THE FOLLOWING MINIMUM PRACTICES SHALL BE FOLLOWED: ® WET METHODS [e.g., AMENDED WATER, SHAVING CREAM, OR WALLPAPER PASTE], PER §1926.1101(g)(1)(ii) AND §1926.1101(g)(9)(i) @ LOCAL EXHAUST VENTILATION TO THE EXTENT FEASIBLE [e.g., A DRILL FITTED WITH A HEPA-VACUUM ATTAHCMENT], PER §1926.1101(g)(9)(ii) @VACUUM CLEANERS EQUIPPED WITH HEPA FILTERS TO COLLECT ALL ACM DEBRIS [e.g., A HEPA-FILTERED SHOP VACUUM], PER §1926.1101(g)(1)(i); AND @PROMPT CLEAN-UP AND DISPOSAL OF WASTES AND DEBRIS CONTAMINATED WITH ASBESTOS IN LEAK-TIGHT CONTAINERS [e.g., A SIX (6) MIL, LABELED, WASTE BAG], PER §1926.1101(g)(1)(iii).

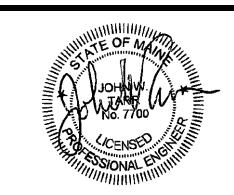
TARR Engineering

tarreng@outlook.com 207-212-6022 - New Gloucester, Maine

SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

Project No.	22012
Key Plan	Proj Nor



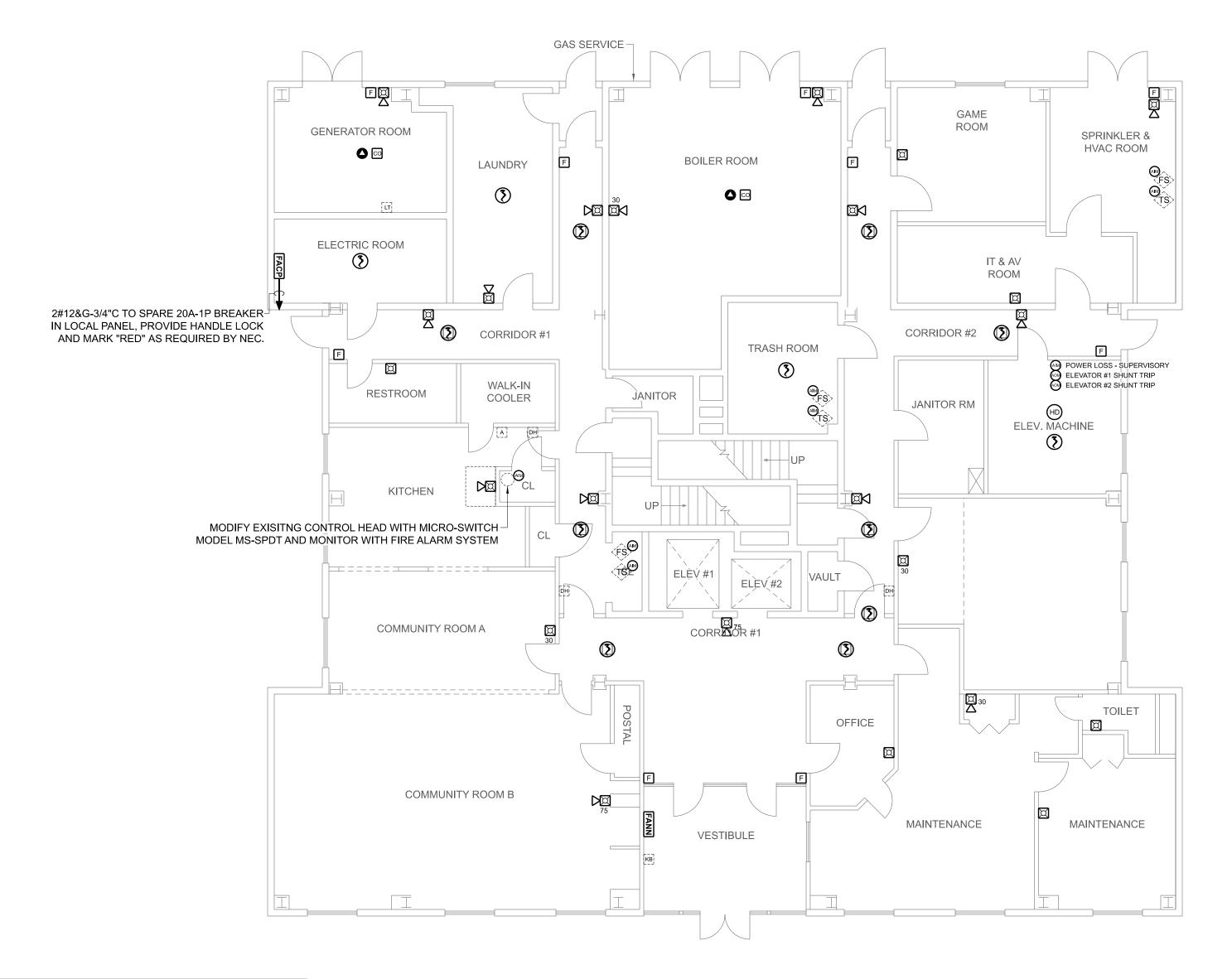
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FIRE ALARM **EXISTING CONDITIONS** EIGHTH FLOOR PLAN



COMPLETELY REMOVE ALL COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM INCLUDING CABLING, AFTER THE NEW SYSTEM HAS BEEN INSTALLED AND TESTED AND IS FULLY FUNCTIONAL.

AT CONTRACTORS OPTION, AFTER INSPECTION OF AND VERIFICATION THAT CABLES ARE IN GOOD CONDITION, APPROVED FOR USE AND COMPATIBLE, THE EXISTING RISER CABLES MAY BE REUSED PROVIDING THAT REUSE DOES NOT PRESENT PHASING ISSUES.

NOTES:

PRIOR TO CORING OR DRILLING ANY HOLES IN CONCRETE SLABS (FLOORS/CEILINGS), PROVIDE X-RAY STUDY DOCUMENTING LOCATIONS OF ALL POST-TENSIONED CABLES AND REVIEW WITH OWNER. CORING SHALL AVOID ALL POST-TENSIONED CABLES.

SMOKE DETECTORS IN APARTMENTS INDICATED ON WALLS, AT CONTRACTORS OPTION MAY BE LOCATED ON CEILING EXACT FINAL LOCATION OF ALL SMOKE DETECTORS SHALL AVOID FANS, CLOSE PROXIMITY TO BATHROOMS,

RANGES AND OTHER ITEMS THAT MAY EFFECT PROPER OPERATION.

PRIOR TO CUTTING OR DRILLING INTO POTENTIALLY ASBESTOS CONTAINING MATERIALS, OSHA STANDARD PRATICES SHALL BE FOLLOWED AND PRECAUTIONS SHALL BE TAKEN TO MINIMIZE DUST AND DEBRIS. THE FOLLOWING MINIMUM PRACTICES SHALL BE FOLLOWED:

WET METHODS [e.g., AMENDED WATER, SHAVING CREAM, OR WALLPAPER PASTE], PER §1926.1101(g)(1)(ii) AND §1926.1101(g)(9)(i)

LOCAL EXHAUST VENTILATION TO THE EXTENT FEASIBLE [e.g., A DRILL FITTED WITH A HEPA-VACUUM ATTAHCMENT], PER §1926.1101(g)(9)(ii)

VACUUM CLEANERS EQUIPPED WITH HEPA FILTERS TO COLLECT ALL ACM DEBRIS [e.g., A HEPA-FILTERED SHOP VACUUM], PER §1926.1101(g)(1)(ii); AND

PROMPT CLEAN-UP AND DISPOSAL OF WASTES AND DEBRIS CONTAMINATED WITH ASBESTOS IN LEAK-TIGHT CONTAINERS [e.g., A SIX (6) MIL, LABELED, WASTE BAG], PER §1926.1101(g)(1)(iii).

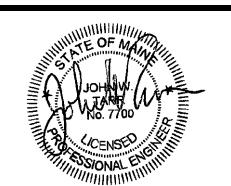
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tarreng@outlook.com 207-212-6022 - New Gloucester, Maine

SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

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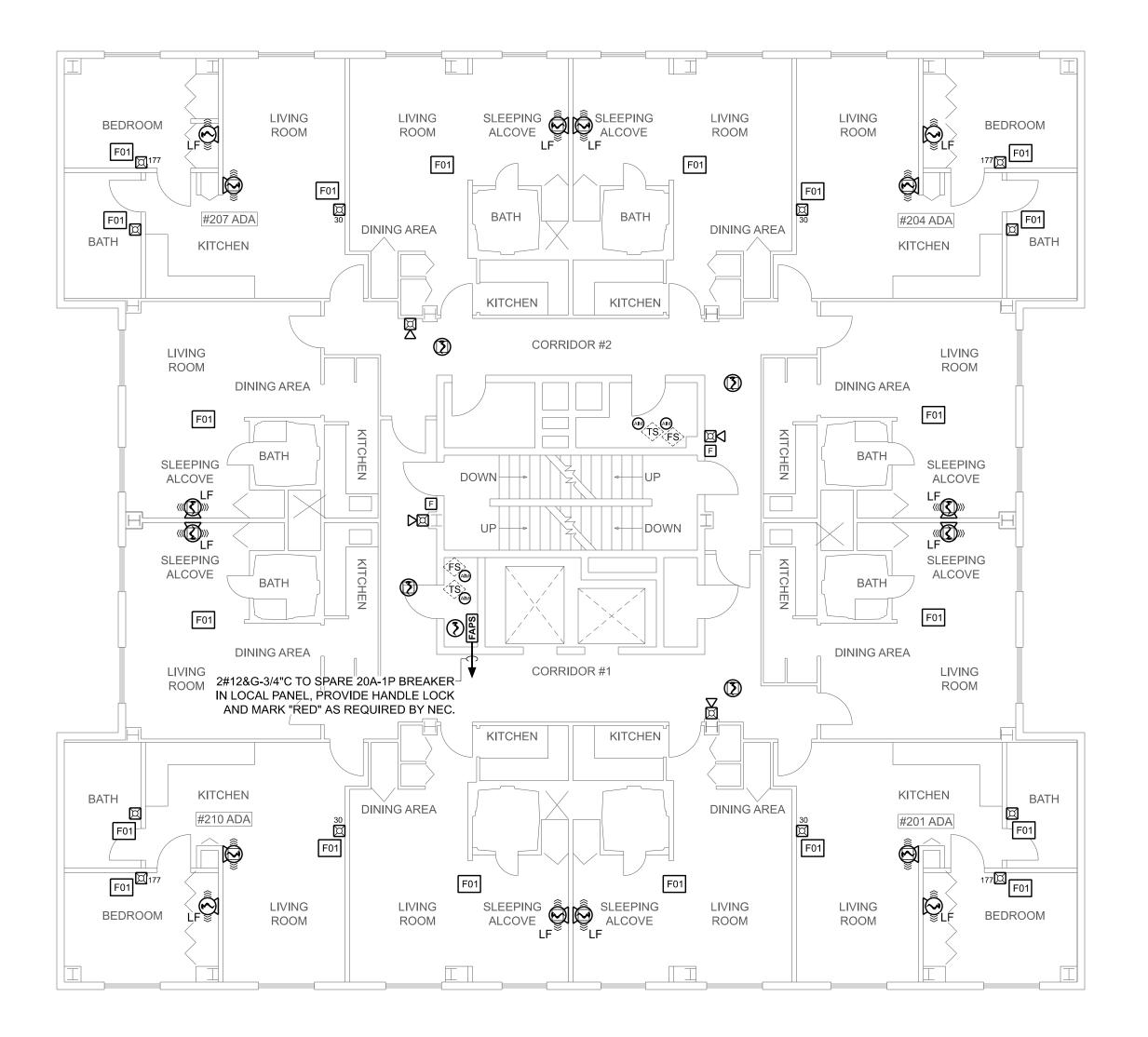
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FIRE ALARM FIRST FLOOR PLAN

F01...VISUAL NOTIFICATION APPLIANCES AND SOUNDER BASES INDICATED IN APARTMENTS SHALL NOTIFY OCCUPANTS ON "LOCAL ALARM" (WITHIN "SUITE") AS WELL AS COMMON AREA SYSTEM ALARM



DEMOLITION NOTES:

COMPLETELY REMOVE ALL COMPONENTS OF THE EXISTING FIRE ALARM SYSTEM INCLUDING CABLING, AFTER THE NEW SYSTEM HAS BEEN INSTALLED AND TESTED AND IS FULLY FUNCTIONAL.

AT CONTRACTORS OPTION, AFTER INSPECTION OF AND VERIFICATION THAT CABLES ARE IN GOOD CONDITION, APPROVED FOR USE AND COMPATIBLE, THE EXISTING RISER CABLES MAY BE REUSED PROVIDING THAT REUSE DOES NOT PRESENT PHASING ISSUES.

NOTES:

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SMOKE DETECTORS IN APARTMENTS INDICATED ON WALLS, AT CONTRACTORS OPTION MAY BE LOCATED ON CEILING EXACT FINAL LOCATION

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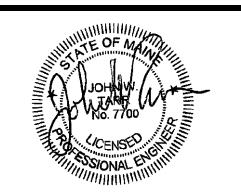
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SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

Project No.	22012
Key Plan	Proj North



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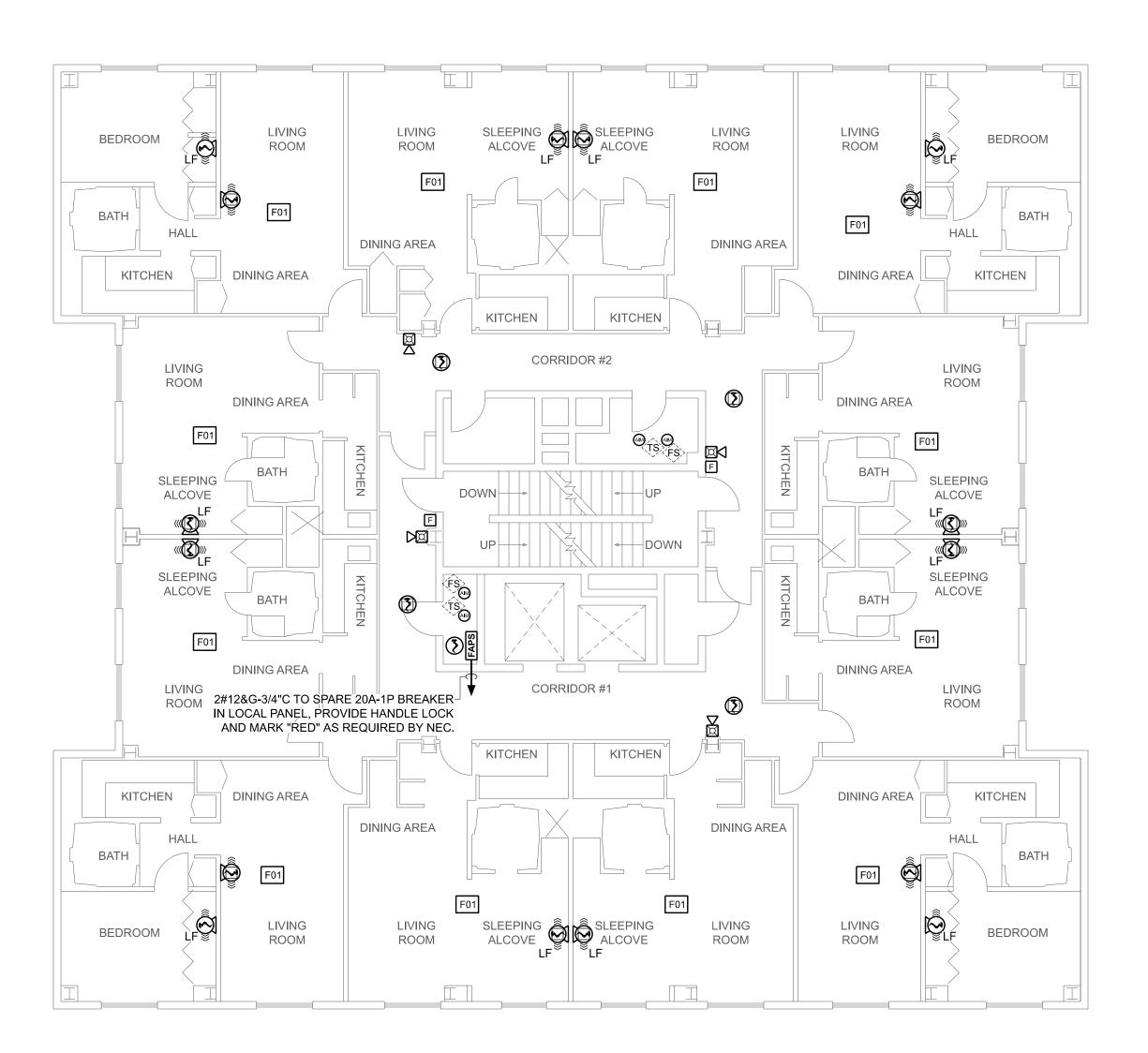
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FIRE ALARM SECOND FLOOR PLAN

F01...VISUAL NOTIFICATION APPLIANCES AND SOUNDER BASES INDICATED IN APARTMENTS SHALL NOTIFY OCCUPANTS ON "LOCAL ALARM" (WITHIN "SUITE") AS WELL AS COMMON AREA SYSTEM ALARM



DEMOLITION NOTES:

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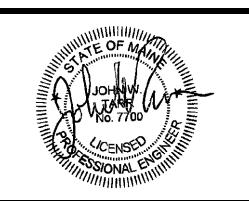
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SUNSET TOWER FIRE ALARM UPGRADE

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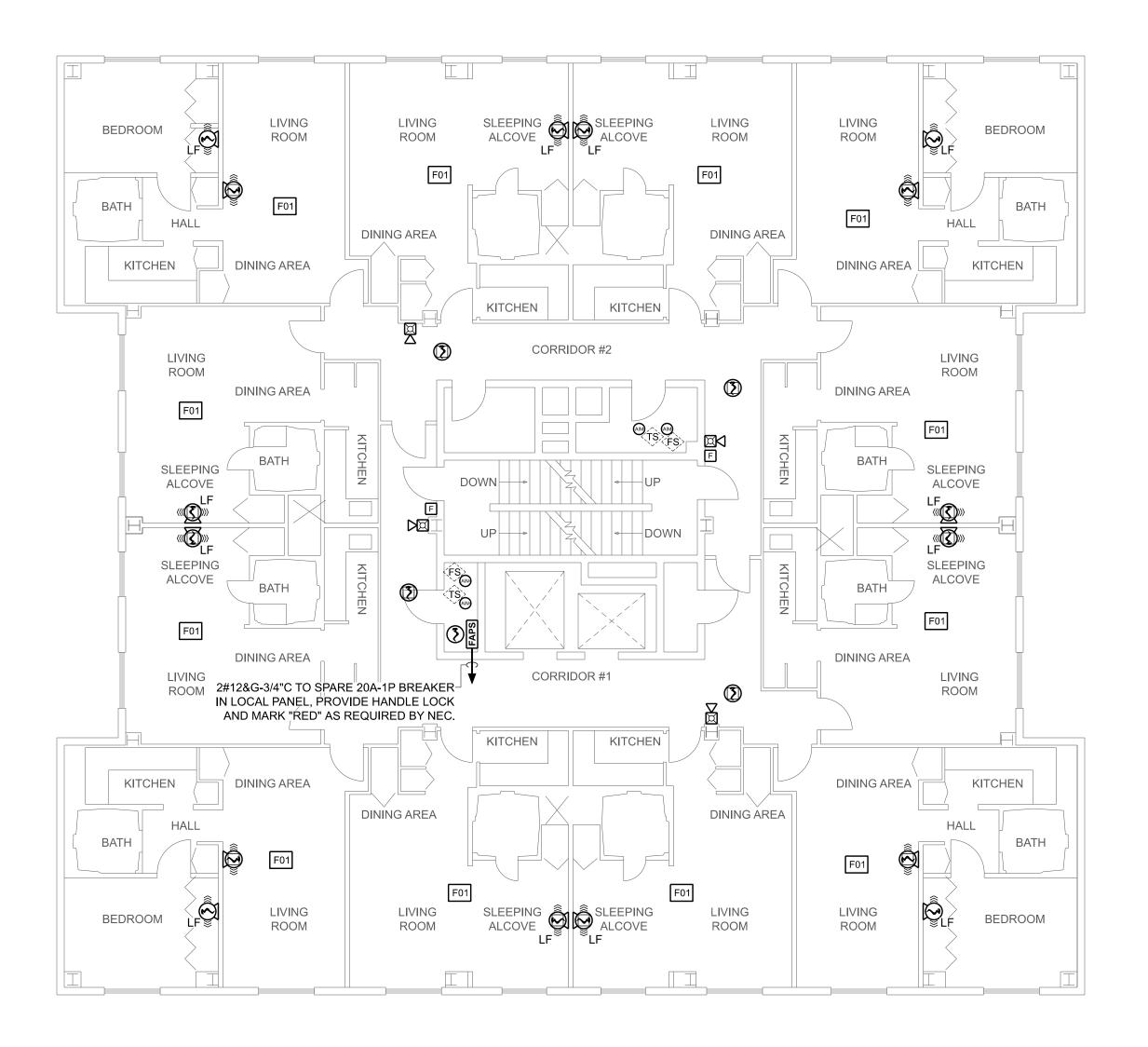
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FIRE ALARM THIRD FLOOR PLAN

F01...VISUAL NOTIFICATION APPLIANCES AND SOUNDER BASES INDICATED IN APARTMENTS SHALL NOTIFY OCCUPANTS ON "LOCAL ALARM" (WITHIN "SUITE") AS WELL AS COMMON AREA SYSTEM ALARM.



DEMOLITION NOTES:

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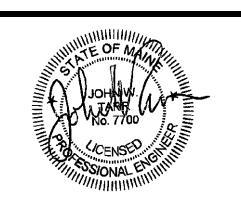
TARR Engineering

tarreng@outlook.com 207-212-6022 - New Gloucester, Maine

SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

Project No.	22012
Key Plan	Proj Nort



CONSTRUCTION DOCUMENTS

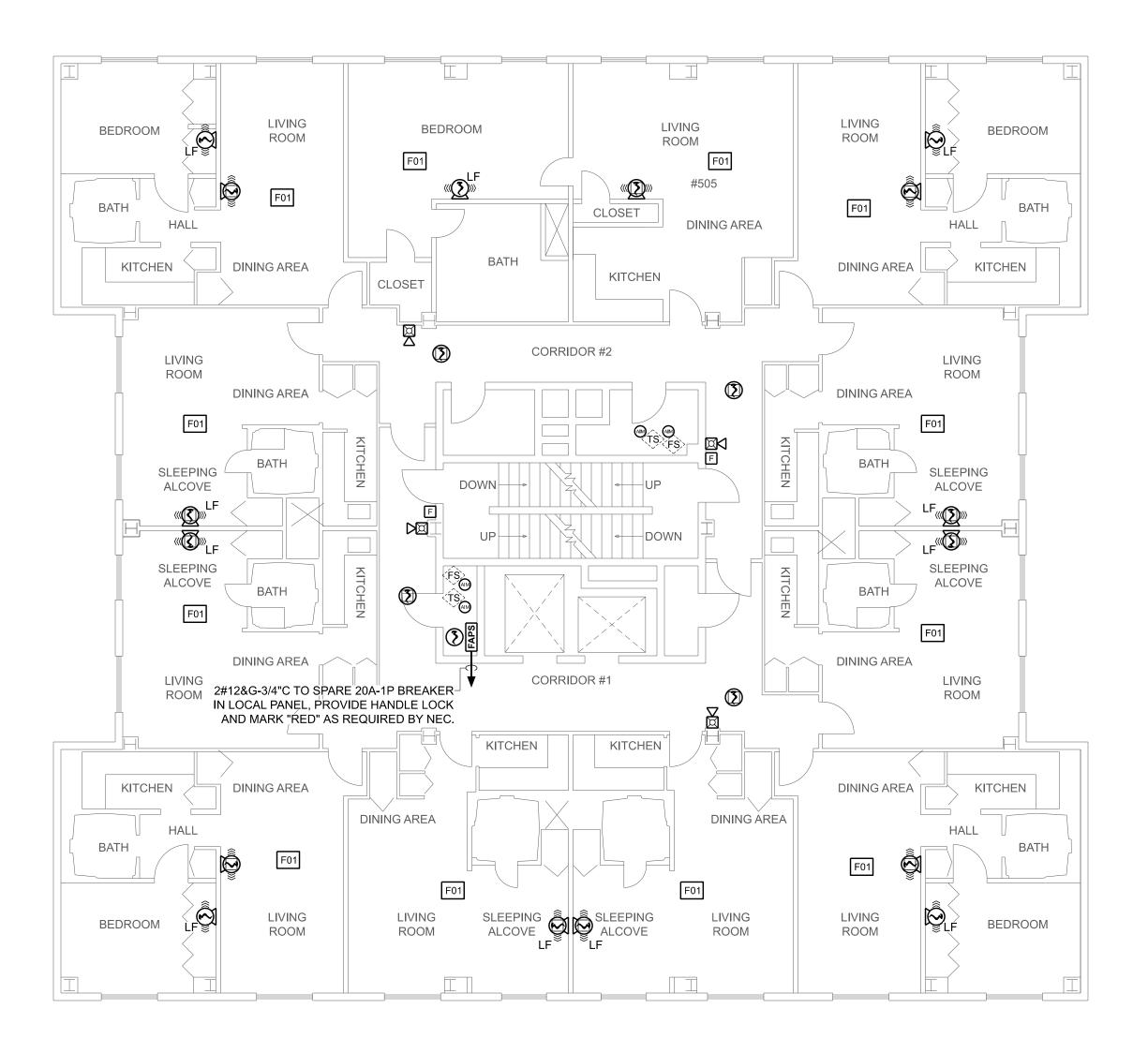
October 25, 2023

Rev Date	Revision Description

	Drawing Scales 1/8" = 1'-0"	0 4' 8' 12'
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FIRE ALARM FOURTH FLOOR PLAN

F01...VISUAL NOTIFICATION APPLIANCES AND SOUNDER BASES INDICATED IN APARTMENTS SHALL NOTIFY OCCUPANTS ON "LOCAL ALARM" (WITHIN "SUITE") AS WELL AS COMMON AREA SYSTEM ALARM.



DEMOLITION NOTES:

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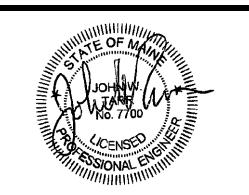
TARR Engineering

tarreng@outlook.com 207-212-6022 - New Gloucester, Maine

SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

Project No.	22012
Key Plan	Proj North



CONSTRUCTION DOCUMENTS

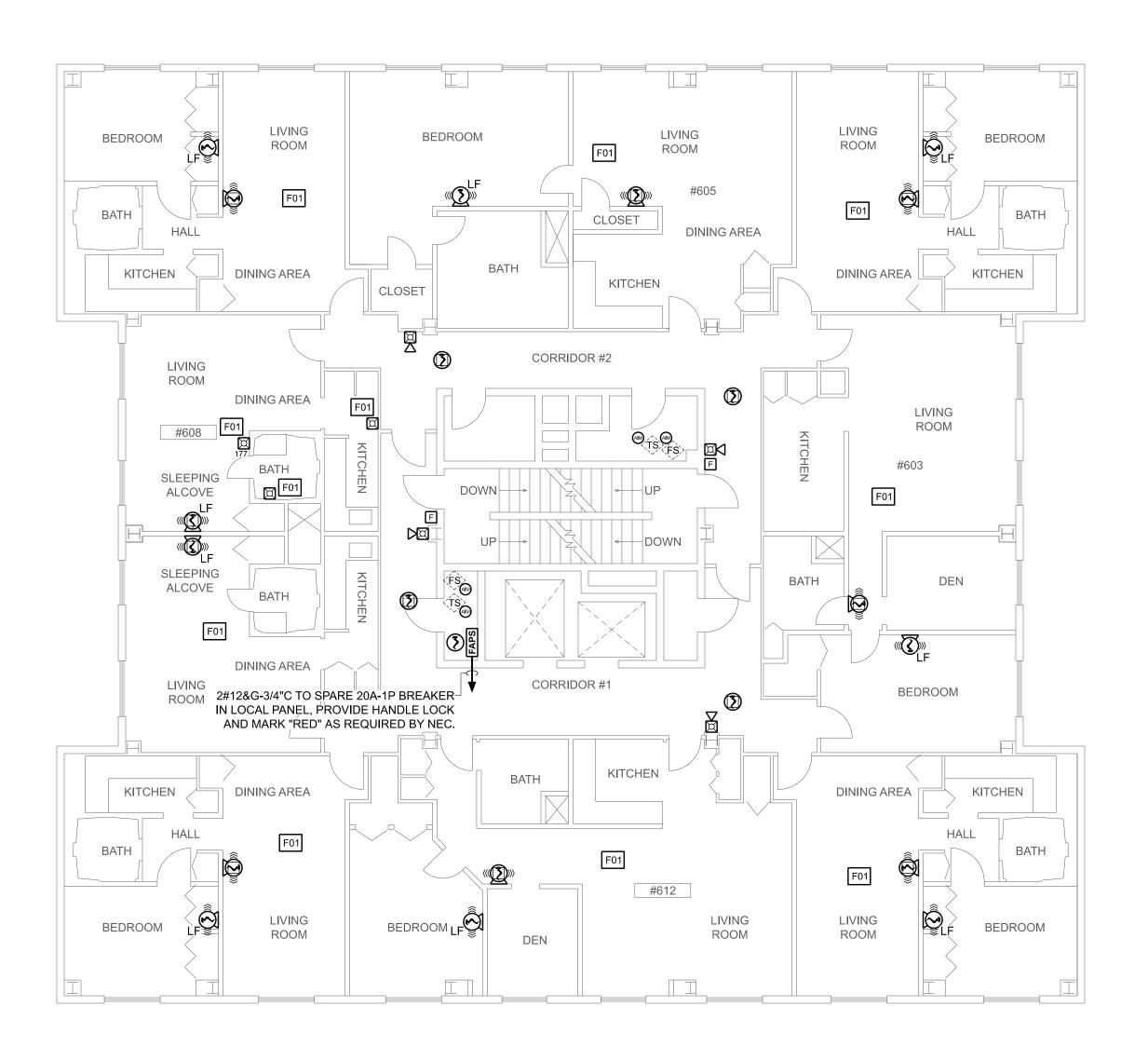
October 25, 2023

Rev Date	Revision Description

	Drawing Scales 1/8" = 1'-0"	0 4' 8' 12'
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FIRE ALARM FIFTH FLOOR PLAN

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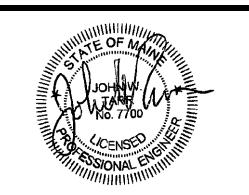
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SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

Project No.	22012
Key Plan	Proj North



CONSTRUCTION DOCUMENTS

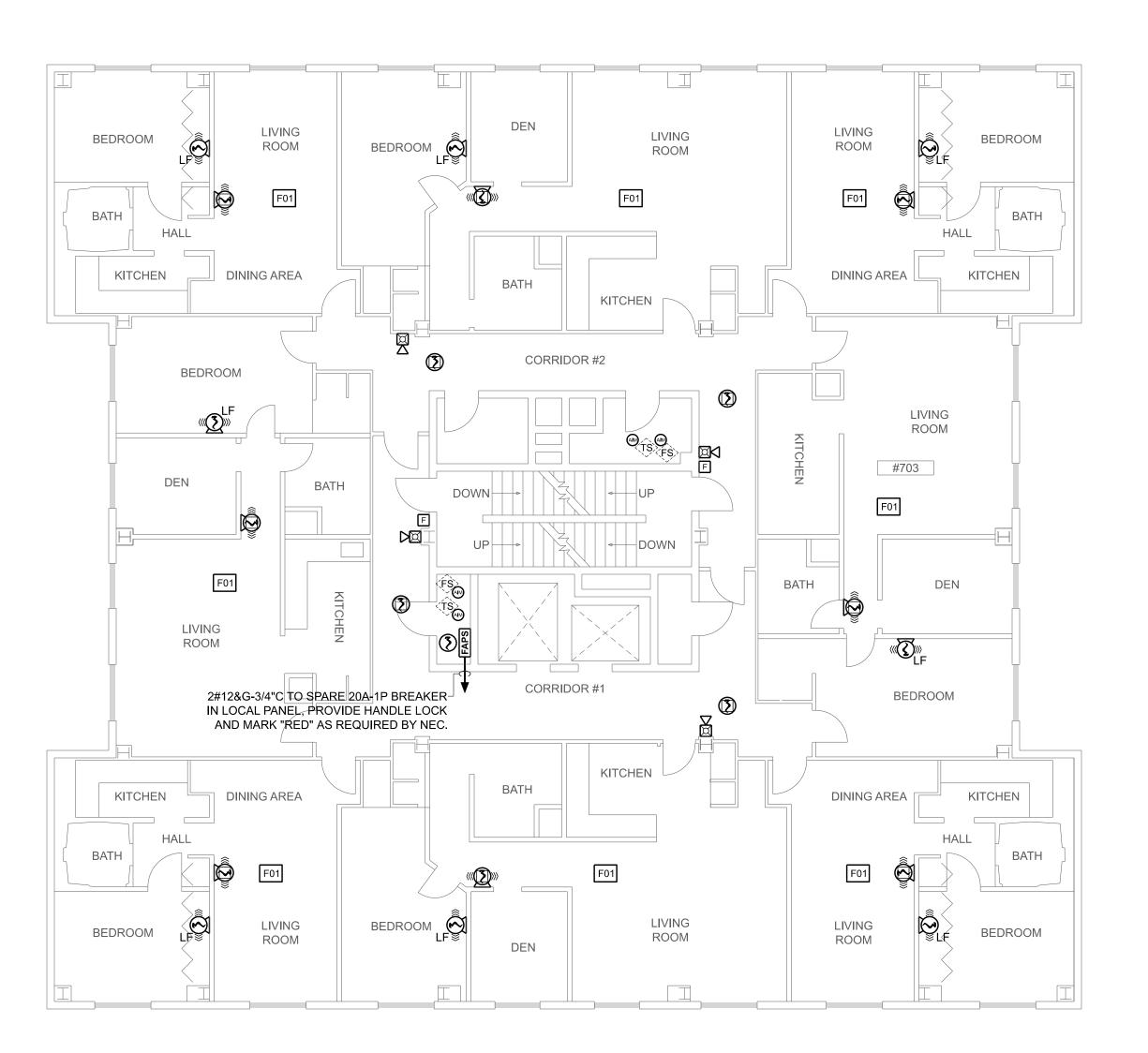
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FIRE ALARM SIXTH FLOOR PLAN

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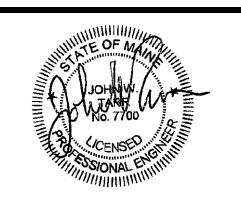
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SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

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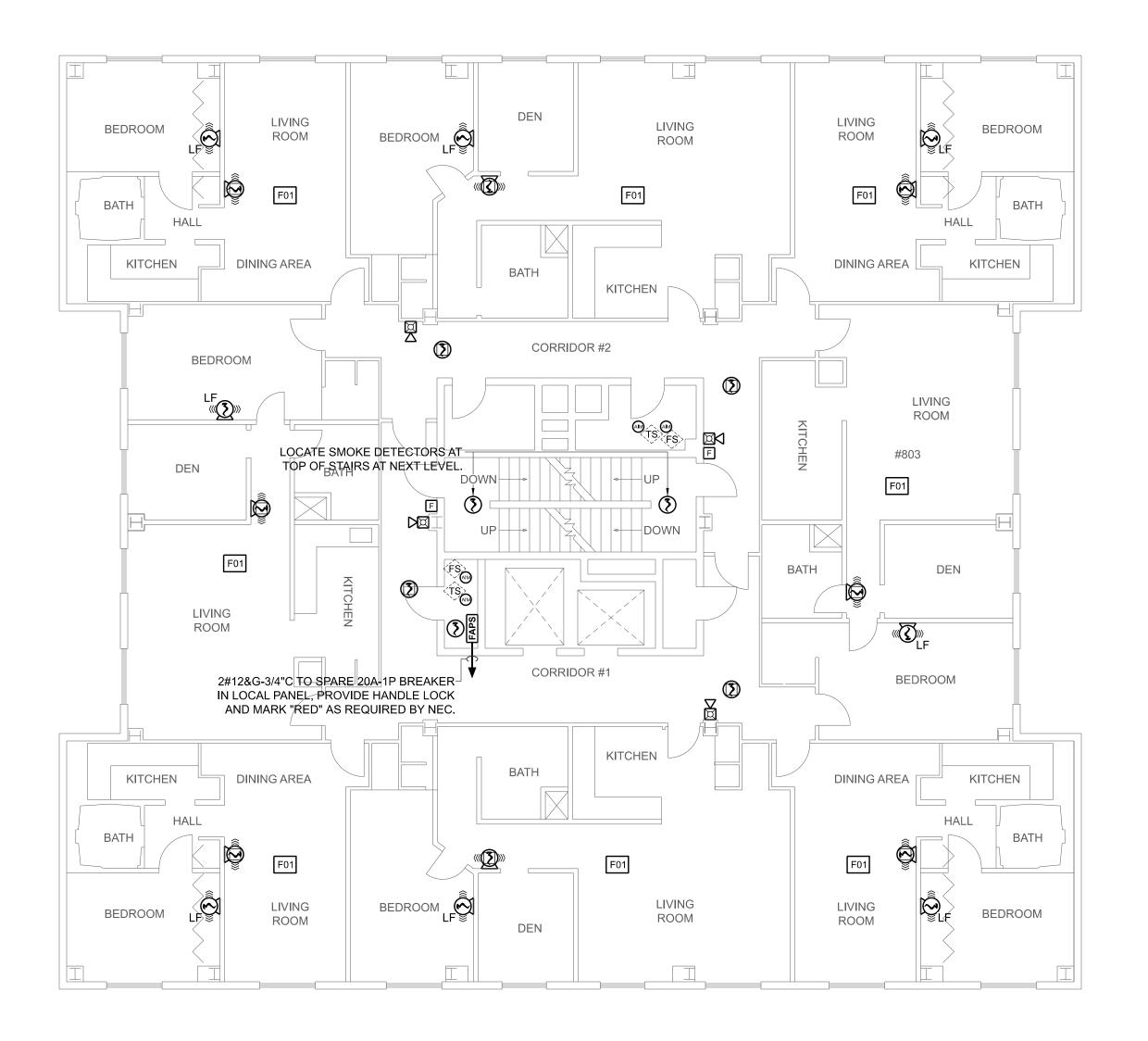
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FIRE ALARM SEVENTH FLOOR PLAN

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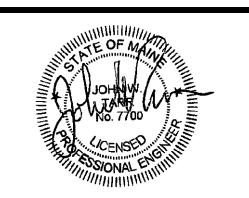
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SUNSET TOWER FIRE ALARM UPGRADE

941 Main Street Sanford, Maine

Project No.	22012
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CONSTRUCTION DOCUMENTS

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FIRE ALARM **EIGHTH FLOOR** PLAN



U.S. Department of Housing and Urban Development

Office of Public and Indian Housing

Instructions to Bidders for Contracts Public and Indian Housing Programs

Instructions to Bidders for Contracts

Public and Indian Housing Programs

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1. Bid Preparation and Submission

- (a) Bidders are expected to examine the specifications, drawings, all instructions, and, if applicable, the construction site (see also the contract clause entitled **Site Investigation and Conditions Affecting the Work** of the *General Conditions of the Contract for Construction*). Failure to do so will be at the bidders' risk.
- (b) All bids must be submitted on the forms provided by the Public Housing Agency/Indian Housing Authority (PHA/IHA). Bidders shall furnish all the information required by the solicitation. Bids must be signed and the bidder's name typed or printed on the bid sheet and each continuation sheet which requires the entry of information by the bidder. Erasures or other changes must be initialed by the person signing the bid. Bids signed by an agent shall be accompanied by evidence of that agent's authority. (Bidders should retain a copy of their bid for their records.)
- (c) Bidders must submit as part of their bid a completed form HUD-5369-A, "Representations, Certifications, and Other Statements of Bidders."
- (d) All bid documents shall be sealed in an envelope which shall be clearly marked with the words "Bid Documents," the Invitation for Bids (IFB) number, any project or other identifying number, the bidder's name, and the date and time for receipt of bids.
- (e) If this solicitation requires bidding on all items, failure to do so will disqualify the bid. If bidding on all items is not required, bidders should insert the words "No Bid" in the space provided for any item on which no price is submitted.
- (f) Unless expressly authorized elsewhere in this solicitation, alternate bids will not be considered.
- (g) Unless expressly authorized elsewhere in this solicitation, bids submitted by telegraph or facsimile (fax) machines will not be considered.
- (h) If the proposed contract is for a Mutual Help project (as described in 24 CFR Part 905, Subpart E) that involves Mutual Help contributions of work, material, or equipment, supplemental information regarding the bid advertisement is provided as an attachment to this solicitation.

2. Explanations and Interpretations to Prospective Bidders

- (a) Any prospective bidder desiring an explanation or interpretation of the solicitation, specifications, drawings, etc., must request it at least 7 days before the scheduled time for bid opening. Requests may be oral or written. Oral requests must be confirmed in writing. The only oral clarifications that will be provided will be those clearly related to solicitation procedures, i.e., not substantive technical information. No other oral explanation or interpretation will be provided. Any information given a prospective bidder concerning this solicitation will be furnished promptly to all other prospective bidders as a written amendment to the solicitation, if that information is necessary in submitting bids, or if the lack of it would be prejudicial to other prospective bidders.
- (b) Any information obtained by, or provided to, a bidder other than by formal amendment to the solicitation shall not constitute a change to the solicitation.

3. Amendments to Invitations for Bids

- (a) If this solicitation is amended, then all terms and conditions which are not modified remain unchanged.
- (b) Bidders shall acknowledge receipt of any amendment to this solicitation (1) by signing and returning the amendment, (2) by identifying the amendment number and date on the bid form, or (3) by letter, telegram, or facsimile, if those methods are authorized in the solicitation. The PHA/IHA must receive acknowledgement by the time and at the place specified for receipt of bids. Bids which fail to acknowledge the bidder's receipt of any amendment will result in the rejection of the bid if the amendment(s) contained information which substantively changed the PHA's/IHA's requirements.
- (c) Amendments will be on file in the offices of the PHA/IHA and the Architect at least 7 days before bid opening.

4. Responsibility of Prospective Contractor

- (a) The PHA/IHA will award contracts only to responsible prospective contractors who have the ability to perform successfully under the terms and conditions of the proposed contract. In determining the responsibility of a bidder, the PHA/IHA will consider such matters as the bidder's:
 - (1) Integrity;
 - (2) Compliance with public policy;
 - (3) Record of past performance; and
 - (4) Financial and technical resources (including construction and technical equipment).
- (b) Before a bid is considered for award, the bidder may be requested by the PHA/IHA to submit a statement or other documentation regarding any of the items in paragraph (a) above. Failure by the bidder to provide such additional information shall render the bidder nonresponsible and ineligible for award.

5. Late Submissions, Modifications, and Withdrawal of Bids

- (a) Any bid received at the place designated in the solicitation after the exact time specified for receipt will not be considered unless it is received before award is made and it:
- (1) Was sent by registered or certified mail not later than the fifth calendar day before the date specified for receipt of offers (e.g., an offer submitted in response to a solicitation requiring receipt of offers by the 20th of the month must have been mailed by the 15th);
- (2) Was sent by mail, or if authorized by the solicitation, was sent by telegram or via facsimile, and it is determined by the PHA/IHA that the late receipt was due solely to mishandling by the PHA/IHA after receipt at the PHA/IHA; or
- (3) Was sent by U.S. Postal Service Express Mail Next Day Service Post Office to Addressee, not later than 5:00 p.m. at the place of mailing two working days prior to the date specified for receipt of proposals. The term "working days" excludes weekends and observed holidays.
- (b) Any modification or withdrawal of a bid is subject to the same conditions as in paragraph (a) of this provision.
- (c) The only acceptable evidence to establish the date of mailing of a late bid, modification, or withdrawal sent either by registered or certified mail is the U.S. or Canadian Postal Service postmark both on the envelope or wrapper and on the original receipt from the U.S. or Canadian Postal Service. Both postmarks must show a legible date or the bid, modification, or withdrawal shall be processed as if mailed late. "Postmark" means a printed, stamped, or otherwise placed impression (exclusive of a postage meter machine impression) that is readily identifiable without further action as having been supplied and affixed by employees of the U.S. or Canadian Postal Service on the date of mailing. Therefore, bidders should request the postal clerk to place a hand cancellation bull's-eye postmark on both the receipt and the envelope or wrapper.
- (d) The only acceptable evidence to establish the time of receipt at the PHA/IHA is the time/date stamp of PHA/IHA on the proposal wrapper or other documentary evidence of receipt maintained by the PHA/IHA.
- (e) The only acceptable evidence to establish the date of mailing of a late bid, modification, or withdrawal sent by Express Mail Next Day Service-Post Office to Addressee is the date entered by the post office receiving clerk on the "Express Mail Next Day Service-Post Office to Addressee" label and the postmark on both the envelope or wrapper and on the original receipt from the U.S. Postal Service. "Postmark" has the same meaning as defined in paragraph (c) of this provision, excluding postmarks of the Canadian Postal Service. Therefore, bidders should request the postal clerk to place a legible hand cancellation bull's eye postmark on both the receipt and Failure by a bidder to acknowledge receipt of the envelope or wrapper.
- (f) Notwithstanding paragraph (a) of this provision, a late modification of an otherwise successful bid that makes its terms more favorable to the PHA/IHA will be considered at any time it is received and may be accepted.
- (g) Bids may be withdrawn by written notice, or if authorized by this solicitation, by telegram (including mailgram) or facsimile machine transmission received at any time before the exact time set for opening of bids; provided that written confirmation of telegraphic or facsimile withdrawals over the signature of the bidder is mailed and postmarked prior to the specified bid opening time. A bid may be withdrawn in person by a bidder or its authorized representative if, before the exact time set for opening of bids, the identity of the person requesting withdrawal is established and the person signs a receipt for the bid.

6. Bid Opening

All bids received by the date and time of receipt specified in the solicitation will be publicly opened and read. The time and place of opening will be as specified in the solicitation. Bidders and other interested persons may be present.

7. Service of Protest

(a) Definitions. As used in this provision:

"Interested party" means an actual or prospective bidder whose direct economic interest would be affected by the award of the contract.

"Protest" means a written objection by an interested party to this solicitation or to a proposed or actual award of a contract pursuant to this solicitation.

(b) Protests shall be served on the Contracting Officer by obtaining written and dated acknowledgement from —

[Contracting Officer designate the official or location where a protest may be served on the Contracting Officer]

(c) All protests shall be resolved in accordance with the PHA's/IHA's protest policy and procedures, copies of which are maintained at the PHA/IHA.

8. Contract Award

- (a) The PHA/IHA will evaluate bids in response to this solicitation without discussions and will award a contract to the responsible bidder whose bid, conforming to the solicitation, will be most advantageous to the PHA/IHA considering only price and any price-related factors specified in the solicitation.
- (b) If the apparent low bid received in response to this solicitation exceeds the PHA's/IHA's available funding for the proposed contract work, the PHA/IHA may either accept separately priced items (see 8(e) below) or use the following procedure to determine contract award. The PHA/IHA shall apply in turn to each bid (proceeding in order from the apparent low bid to the high bid) each of the separately priced bid deductible items, if any, in their priority order set forth in this solicitation. If upon the application of the first deductible item to all initial bids, a new low bid is within the PHA's/IHA's available funding, then award shall be made to that bidder. If no bid is within the available funding amount, then the PHA/IHA shall apply the second deductible item. The PHA/IHA shall continue this process until an evaluated low bid, if any, is within the PHA's/IHA's available funding. If upon the application of all deductibles, no bid is within the PHA's/IHA's available funding, or if the solicitation does not request separately priced deductibles, the PHA/IHA shall follow its written policy and procedures in making any award under this solicitation.
- (c) In the case of tie low bids, award shall be made in accordance with the PHA's/IHA's written policy and procedures.
- (d) The PHA/IHA may reject any and all bids, accept other than the lowest bid (e.g., the apparent low bid is unreasonably low), and waive informalities or minor irregularities in bids received, in accordance with the PHA's/IHA's written policy and procedures.

- (e) Unless precluded elsewhere in the solicitation, the PHA/IHA may accept any item or combination of items bid.
- (f) The PHA/IHA may reject any bid as nonresponsive if it is materially unbalanced as to the prices for the various items of work to be performed. A bid is materially unbalanced when it is based on prices significantly less than cost for some work and prices which are significantly overstated for other work.
- (g) A written award shall be furnished to the successful bidder within the period for acceptance specified in the bid and shall result in a binding contract without further action by either party.

Bid Guarantee (applicable to construction and equipment contracts exceeding \$25,000)

All bids must be accompanied by a negotiable bid guarantee which shall not be less than five percent (5%) of the amount of the bid. The bid guarantee may be a certified check, bank draft, U.S. Government Bonds at par value, or a bid bond secured by a surety company acceptable to the U.S. Government and authorized to do business in the state where the work is to be performed. In the case where the work under the contract will be performed on an Indian reservation area, the bid guarantee may also be an irrevocable Letter of Credit (see provision 10, Assurance of Completion, below). Certified checks and bank drafts must be made payable to the order of the PHA/IHA. The bid guarantee shall insure the execution of the contract and the furnishing of a method of assurance of completion by the successful bidder as required by the solicitation. Failure to submit a bid guarantee with the bid shall result in the rejection of the bid. Bid guarantees submitted by unsuccessful bidders will be returned as soon as practicable after bid opening.

10. Assurance of Completion

- (a) Unless otherwise provided in State law, the successful bidder shall furnish an assurance of completion prior to the execution of any contract under this solicitation. This assurance may be [Contracting Officer check applicable items] —
- [] (1) a performance and payment bond in a penal sum of 100 percent of the contract price; or, as may be required or permitted by State law;
- [] (2) separate performance and payment bonds, each for 50 percent or more of the contract price;
- [] (3) a 20 percent cash escrow;
- [] (4) a 25 percent irrevocable letter of credit; or,
- [] (5) an irrevocable letter of credit for 10 percent of the total contract price with a monitoring and disbursements agreement with the IHA (applicable only to contracts awarded by an IHA under the Indian Housing Program).
- (b) Bonds must be obtained from guarantee or surety companies acceptable to the U.S. Government and authorized to do business in the state where the work is to be performed. Individual sureties will not be considered. U.S. Treasury Circular Number 570, published annually in the Federal Register, lists companies approved to act as sureties on bonds securing Government contracts, the maximum underwriting limits on each contract bonded, and the States in which the company is licensed to do business. Use of companies listed in this circular is mandatory. Copies of the circular may be downloaded on the U.S. Department of Treasury website http://www.fms.treas.gov/c570/index.html, or ordered for a minimum fee by contacting the Government Printing Office at (202) 512-2168.

- (c) Each bond shall clearly state the rate of premium and the total amount of premium charged. The current power of attorney for the person who signs for the surety company must be attached to the bond. The effective date of the power of attorney shall not precede the date of the bond. The effective date of the bond shall be on or after the execution date of the contract.
- (d) Failure by the successful bidder to obtain the required assurance of completion within the time specified, or within such extended period as the PHA/IHA may grant based upon reasons determined adequate by the PHA/IHA, shall render the bidder ineligible for award. The PHA/IHA may then either award the contract to the next lowest responsible bidder or solicit new bids. The PHA/IHA may retain the ineligible bidder's bid guarantee.

Preconstruction Conference (applicable to construction contracts)

After award of a contract under this solicitation and prior to the start of work, the successful bidder will be required to attend a preconstruction conference with representatives of the PHA/IHA and its architect/engineer, and other interested parties convened by the PHA/IHA. The conference will serve to acquaint the participants with the general plan of the construction operation and all other requirements of the contract (e.g., Equal Employment Opportunity, Labor Standards). The PHA/IHA will provide the successful bidder with the date, time, and place of the conference.

- **12. Indian Preference Requirements** (applicable only if this solicitation is for a contract to be performed on a project for an Indian Housing Authority)
- (a) HUD has determined that the contract awarded under this solicitation is subject to the requirements of section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e(b)). Section 7(b) requires that any contract or subcontract entered into for the benefit of Indians shall require that, to the greatest extent feasible
- (1) Preferences and opportunities for training and employment (other than core crew positions; see paragraph (h) below) in connection with the administration of such contracts or subcontracts be given to qualified "Indians." The Act defines "Indians" to mean persons who are members of an Indian tribe and defines "Indian tribe" to mean any Indian tribe, band, nation, or other organized group or community, including any Alaska Native village or regional or village corporation as defined in or established pursuant to the Alaska Native Claims Settlement Act, which is recognized as eligible for the special programs and services provided by the United States to Indians because of their status as Indians; and,
- (2) Preference in the award of contracts or subcontracts in connection with the administration of contracts be given to Indian organizations and to Indian-owned economic enterprises, as defined in section 3 of the Indian Financing Act of 1974 (25 U.S.C. 1452). That Act defines "economic enterprise" to mean any Indianowned commercial, industrial, or business activity established or organized for the purpose of profit, except that the Indian ownership must constitute not less than 51 percent of the enterprise; "Indian organization" to mean the governing body of any Indian tribe or entity established or recognized by such governing body; "Indian" to mean any person who is a member of any tribe, band, group, pueblo, or community which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs and any "Native" as defined in the Alaska Native Claims Settlement Act: and Indian "tribe" to mean any Indian tribe, band, group, pueblo, or community including Native villages and Native groups (including

corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act, which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs.

- (b) (1) The successful Contractor under this solicitation shall comply with the requirements of this provision in awarding all subcontracts under the contract and in providing training and employment opportunities.
- (2) A finding by the IHA that the contractor, either (i) awarded a subcontract without using the procedure required by the IHA, (ii) falsely represented that subcontracts would be awarded to Indian enterprises or organizations; or, (iii) failed to comply with the contractor's employment and training preference bid statement shall be grounds for termination of the contract or for the assessment of penalties or other remedies.
- (c) If specified elsewhere in this solicitation, the IHA may restrict the solicitation to qualified Indian-owned enterprises and Indian organizations. If two or more (or a greater number as specified elsewhere in the solicitation) qualified Indian-owned enterprises or organizations submit responsive bids, award shall be made to the qualified enterprise or organization with the lowest responsive bid. If fewer than the minimum required number of qualified Indian-owned enterprises or organizations submit responsive bids, the IHA shall reject all bids and readvertise the solicitation in accordance with paragraph (d) below.
- (d) If the IHA prefers not to restrict the solicitation as described in paragraph (c) above, or if after having restricted a solicitation an insufficient number of qualified Indian enterprises or organizations submit bids, the IHA may advertise for bids from non-Indian as well as Indian-owned enterprises and Indian organizations. Award shall be made to the qualified Indian enterprise or organization with the lowest responsive bid if that bid is -
- (1) Within the maximum HUD-approved budget amount established for the specific project or activity for which bids are being solicited; and
- (2) No more than the percentage specified in 24 CFR 905.175(c) higher than the total bid price of the lowest responsive bid from any qualified bidder. If no responsive bid by a qualified Indian-owned economic enterprise or organization is within the stated range of the total bid price of the lowest responsive bid from any qualified enterprise, award shall be made to the bidder with the lowest bid.
- (e) Bidders seeking to qualify for preference in contracting or subcontracting shall submit proof of Indian ownership with their bids. Proof of Indian ownership shall include but not be limited to:
- (1) Certification by a tribe or other evidence that the bidder is an Indian. The IHA shall accept the certification of a tribe that an individual is a member.
- (2) Evidence such as stock ownership, structure, management, control, financing and salary or profit sharing arrangements of the enterprise.

- (f) (1) All bidders must submit with their bids a statement describing how they will provide Indian preference in the award of subcontracts. The specific requirements of that statement and the factors to used by the IHA in determining the statement's adequacy are included as an attachment to this solicitation. Any bid that fails to include the required statement shall be rejected as nonresponsive. The IHA may require that comparable statements be provided by subcontractors to the successful Contractor, and may require the Contractor to reject any bid or proposal by a subcontractor that fails to include the statement.
- (2) Bidders and prospective subcontractors shall submit a certification (supported by credible evidence) to the IHA in any instance where the bidder or subcontractor believes it is infeasible to provide Indian preference in subcontracting. The acceptance or rejection by the IHA of the certification shall be final. Rejection shall disqualify the bid from further consideration.
- (g) All bidders must submit with their bids a statement detailing their employment and training opportunities and their plans to provide preference to Indians in implementing the contract; and the number or percentage of Indians anticipated to be employed and trained. Comparable statements from all proposed subcontractors must be submitted. The criteria to be used by the IHA in determining the statement(s)'s adequacy are included as an attachment to this solicitation. Any bid that fails to include the required statement(s), or that includes a statement that does not meet minimum standards required by the IHA shall be rejected as nonresponsive.
- (h) Core crew employees. A core crew employee is an individual who is a bona fide employee of the contractor at the time the bid is submitted; or an individual who was not employed by the bidder at the time the bid was submitted, but who is regularly employed by the bidder in a supervisory or other key skilled position when work is available. Bidders shall submit with their bids a list of all core crew employees.
- (i) Preference in contracting, subcontracting, employment, and training shall apply not only on-site, on the reservation, or within the IHA's jurisdiction, but also to contracts with firms that operate outside these areas (e.g., employment in modular or manufactured housing construction facilities).
- (j) Bidders should contact the IHA to determine if any additional local preference requirements are applicable to this solicitation.
- (k) The IHA [] does [] does not [Contracting Officer check applicable box] maintain lists of Indian-owned economic enterprises and Indian organizations by specialty (e.g., plumbing, electrical, foundations), which are available to bidders to assist them in meeting their responsibility to provide preference in connection with the administration of contracts and subcontracts.



U.S. Department of Housing and Urban Development

Office of Public and Indian Housing

Representations, Certifications, and Other Statements of Bidders Public and Indian Housing Programs

Previous edition is obsolete form **HUD-5369-A** (11/92)

Representations, Certifications, and Other Statements of Bidders

Public and Indian Housing Programs

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1. Certificate of Independent Price Determination

- (a) The bidder certifies that--
- (1) The prices in this bid have been arrived at independently, without, for the purpose of restricting competition, any consultation, communication, or agreement with any other bidder or competitor relating to (i) those prices, (ii) the intention to submit a bid, or (iii) the methods or factors used to calculate the prices offered;
- (2) The prices in this bid have not been and will not be knowingly disclosed by the bidder, directly or indirectly, to any other bidder or competitor before bid opening (in the case of a sealed bid solicitation) or contract award (in the case of a competitive proposal solicitation) unless otherwise required by law; and
- (3) No attempt has been made or will be made by the bidder to induce any other concern to submit or not to submit a bid for the purpose of restricting competition.
- (b) Each signature on the bid is considered to be a certification by the signatory that the signatory--
- (1) Is the person in the bidder's organization responsible for determining the prices being offered in this bid or proposal, and that the signatory has not participated and will not participate in any action contrary to subparagraphs (a)(l) through (a)(3) above; or
- (2) (i) Has been authorized, in writing, to act as agent for the following principals in certifying that those principals have not participated, and will not participate in any action contrary to subparagraphs (a)(I) through (a)(3) above.

full name of person(s) in the bidder's organization responsible for determining the prices offered in this bid or proposal, and the title of his or her position in the bidder's organization];

(ii) As an authorized agent, does certify that the principals named in subdivision (b)(2)(i) above have not participated, and will not participate, in any action contrary to subparagraphs (a)(1) through (a)(3) above; and

- (iii) As an agent, has not personally participated, and will not participate in any action contrary to subparagraphs (a)(1) through (a)(3) above.
- (c) If the bidder deletes or modifies subparagraph (a)2 above, the bidder must furnish with its bid a signed statement setting forth in detail the circumstances of the disclosure.
- [] [Contracting Officer check if following paragraph is applicable]
- (d) Non-collusive affidavit. (applicable to contracts for construction and equipment exceeding \$50,000)
- (1) Each bidder shall execute, in the form provided by the PHA/ IHA, an affidavit to the effect that he/she has not colluded with any other person, firm or corporation in regard to any bid submitted in response to this solicitation. If the successful bidder did not submit the affidavit with his/her bid, he/she must submit it within three (3) working days of bid opening. Failure to submit the affidavit by that date may render the bid nonresponsive. No contract award will be made without a properly executed affidavit.
- (2) A fully executed "Non-collusive Affidavit" $\ [\]$ is, $\ [\]$ is not included with the bid.

2. Contingent Fee Representation and Agreement

(a) Definitions. As used in this provision:

"Bona fide employee" means a person, employed by a bidder and subject to the bidder's supervision and control as to time, place, and manner of performance, who neither exerts, nor proposes to exert improper influence to solicit or obtain contracts nor holds out as being able to obtain any contract(s) through improper influence.

"Improper influence" means any influence that induces or tends to induce a PHA/IHA employee or officer to give consideration or to act regarding a PHA/IHA contract on any basis other than the merits of the matter.

- (b) The bidder represents and certifies as part of its bid that, except for full-time bona fide employees working solely for the bidder, the bidder:
- (1) [] has, [] has not employed or retained any person or company to solicit or obtain this contract; and
- (2) [] has, [] has not paid or agreed to pay to any person or company employed or retained to solicit or obtain this contract any commission, percentage, brokerage, or other fee contingent upon or resulting from the award of this contract.
- (c) If the answer to either (a)(1) or (a)(2) above is affirmative, the bidder shall make an immediate and full written disclosure to the PHA/IHA Contracting Officer.
- (d) Any misrepresentation by the bidder shall give the PHA/IHA the right to (1) terminate the contract; (2) at its discretion, deduct from contract payments the amount of any commission, percentage, brokerage, or other contingent fee; or (3) take other remedy pursuant to the contract.
- 3. Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions (applicable to contracts exceeding \$100,000)
- (a) The definitions and prohibitions contained in Section 1352 of title 31, United States Code, are hereby incorporated by reference in paragraph (b) of this certification.

- (b) The bidder, by signing its bid, hereby certifies to the best of his or her knowledge and belief as of December 23, 1989 that:
- (1) No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with the awarding of a contract resulting from this solicitation;
- (2) If any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with this solicitation, the bidder shall complete and submit, with its bid, OMB standard form LLL, "Disclosure of Lobbying Activities;" and
- (3) He or she will include the language of this certification in all subcontracts at any tier and require that all recipients of subcontract awards in excess of \$100,000 shall certify and disclose accordingly.
- (c) Submission of this certification and disclosure is a prerequisite for making or entering into this contract imposed by section 1352, title 31, United States Code. Any person who makes an expenditure prohibited under this provision or who fails to file or amend the disclosure form to be filed or amended by this provision, shall be subject to a civil penalty of not less than \$10,000, and not more than \$100,000, for each such failure.
- (d) Indian tribes (except those chartered by States) and Indian organizations as defined in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450B) are exempt from the requirements of this provision.

4. Organizational Conflicts of Interest Certification

The bidder certifies that to the best of its knowledge and belief and except as otherwise disclosed, he or she does not have any organizational conflict of interest which is defined as a situation in which the nature of work to be performed under this proposed contract and the bidder's organizational, financial, contractual, or other interests may, without some restriction on future activities:

- (a) Result in an unfair competitive advantage to the bidder; or,
- (b) Impair the bidder's objectivity in performing the contract work.
- [] In the absence of any actual or apparent conflict, I hereby certify that to the best of my knowledge and belief, no actual or apparent conflict of interest exists with regard to my possible performance of this procurement.

5. Bidder's Certification of Eligibility

- (a) By the submission of this bid, the bidder certifies that to the best of its knowledge and belief, neither it, nor any person or firm which has an interest in the bidder's firm, nor any of the bidder's subcontractors, is ineligible to:
- (1) Be awarded contracts by any agency of the United States Government, HUD, or the State in which this contract is to be performed; or,
 - (2) Participate in HUD programs pursuant to 24 CFR Part 24.
- (b) The certification in paragraph (a) above is a material representation of fact upon which reliance was placed when making award. If it is later determined that the bidder knowingly rendered an erroneous certification, the contract may be terminated for default, and the bidder may be debarred or suspended from participation in HUD programs and other Federal contract programs.

6. Minimum Bid Acceptance Period

- (a) "Acceptance period," as used in this provision, means the number of calendar days available to the PHA/IHA for awarding a contract from the date specified in this solicitation for receipt of bids.
- (b) This provision supersedes any language pertaining to the acceptance period that may appear elsewhere in this solicitation.
- (c) The PHA/IHA requires a minimum acceptance period of [Contracting Officer insert time period] calendar days.
- (d) In the space provided immediately below, bidders may specify a longer acceptance period than the PHA's/IHA's minimum requirement. The bidder allows the following acceptance period: calendar days.
- (e) A bid allowing less than the PHA's/IHA's minimum acceptance period will be rejected.
- (f) The bidder agrees to execute all that it has undertaken to do, in compliance with its bid, if that bid is accepted in writing within (1) the acceptance period stated in paragraph (c) above or (2) any longer acceptance period stated in paragraph (d) above.

7. Small, Minority, Women-Owned Business Concern Representation

The bidder represents and certifies as part of its bid/ offer that it -(a) [] is, [] is not a small business concern. "Small business concern," as used in this provision, means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding, and qualified as a small business under the criteria and size standards in 13 CFR 121.

(b) []is, []is not a women-owned business enterprise. "Women-owned business enterprise," as used in this provision, means a business that is at least 51 percent owned by a woman or women who are U.S. citizens and who also control and operate the business.

(c) [] is, [] is not a minority business enterprise. "Minority business enterprise," as used in this provision, means a business which is at least 51 percent owned or controlled by one or more minority group members or, in the case of a publicly owned business, at least 51 percent of its voting stock is owned by one or more minority group members, and whose management and daily operations are controlled by one or more such individuals. For the purpose of this definition, minority group members are:

(Check the block applicable to you)

Black Americans	[] Asian Pacific Americans
[] Hispanic Americans	[] Asian Indian Americans
[] Native Americans	[] Hasidic Jewish Americans

8. Indian-Owned Economic Enterprise and Indian Organization Representation (applicable only if this solicitation is for a contract to be performed on a project for an Indian Housing Authority)

The bidder represents and certifies that it:

- (a) [] is, [] is not an Indian-owned economic enterprise. "Economic enterprise," as used in this provision, means any commercial, industrial, or business activity established or organized for the purpose of profit, which is at least 51 percent Indian owned. "Indian," as used in this provision, means any person who is a member of any tribe, band, group, pueblo, or community which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs and any "Native" as defined in the Alaska Native Claims Settlement Act.
- (b) [] is, [] is not an Indian organization. "Indian organization," as used in this provision, means the governing body of any Indian tribe or entity established or recognized by such governing body. Indian "tribe" means any Indian tribe, band, group, pueblo, or

community including Native villages and Native groups (including corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act, which is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs.

Certification of Eligibility Under the Davis-Bacon Act (applicable to construction contracts exceeding \$2,000)

- (a) By the submission of this bid, the bidder certifies that neither it nor any person or firm who has an interest in the bidder's firm is a person or firm ineligible to be awarded contracts by the United States Government by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (b) No part of the contract resulting from this solicitation shall be subcontracted to any person or firm ineligible to be awarded contracts by the United States Government by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
- (c) The penalty for making false statements is prescribed in the U. S. Criminal Code, 18 U.S.C. 1001.

10. Certification of Nonsegregated Facilities (applicable to contracts exceeding \$10,000)

- (a) The bidder's attention is called to the clause entitled **Equal Employment Opportunity** of the General Conditions of the Contract for Construction.
- (b) "Segregated facilities," as used in this provision, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin because of habit, local custom, or otherwise.
- (c) By the submission of this bid, the bidder certifies that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The bidder agrees that a breach of this certification is a violation of the Equal Employment Opportunity clause in the contract.
- (d) The bidder further agrees that (except where it has obtained identical certifications from proposed subcontractors for specific time periods) prior to entering into subcontracts which exceed \$10,000 and are not exempt from the requirements of the Equal Employment Opportunity clause, it will:
- (1) Obtain identical certifications from the proposed subcontractors;
 - (2) Retain the certifications in its files; and
- (3) Forward the following notice to the proposed subcontractors (except if the proposed subcontractors have submitted identical certifications for specific time periods):

Notice to Prospective Subcontractors of Requirement for Certifications of Nonsegregated Facilities

A Certification of Nonsegregated Facilities must be submitted before the award of a subcontract exceeding \$10,000 which is not exempt from the provisions of the Equal Employment Opportunity clause of the prime contract. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually, or annually).

Note: The penalty for making false statements in bids is prescribed in 18 U.S.C. 1001.

Clean Air and Water Certification (applicable to contracts exceeding \$100,000)

The bidder certifies that:

- (a) Any facility to be used in the performance of this contract [] is, [] is not listed on the Environmental Protection Agency List of Violating Facilities:
- (b) The bidder will immediately notify the PHA/IHA Contracting Officer, before award, of the receipt of any communication from the Administrator, or a designee, of the Environmental Protection Agency, indicating that any facility that the bidder proposes to use for the performance of the contract is under consideration to be listed on the EPA List of Violating Facilities; and,
- (c) The bidder will include a certification substantially the same as this certification, including this paragraph (c), in every nonexempt subcontract.

12. Previous Participation Certificate (applicable to construction and equipment contracts exceeding \$50,000)

- (a) The bidder shall complete and submit with his/her bid the Form HUD-2530, "Previous Participation Certificate." If the successful bidder does not submit the certificate with his/her bid, he/she must submit it within three (3) working days of bid opening. Failure to submit the certificate by that date may render the bid nonresponsive. No contract award will be made without a properly executed certificate.
- (b) A fully executed "Previous Participation Certificate"[] is, [] is not included with the bid.

13. Bidder's Signature

The bidder hereby certifies that the information contained in these certifications and representations is accurate, complete, and current.

(Signature and Date)		
(Typed or Printed Name)		
(Title)		
(Company Name)		
(Company Address)		