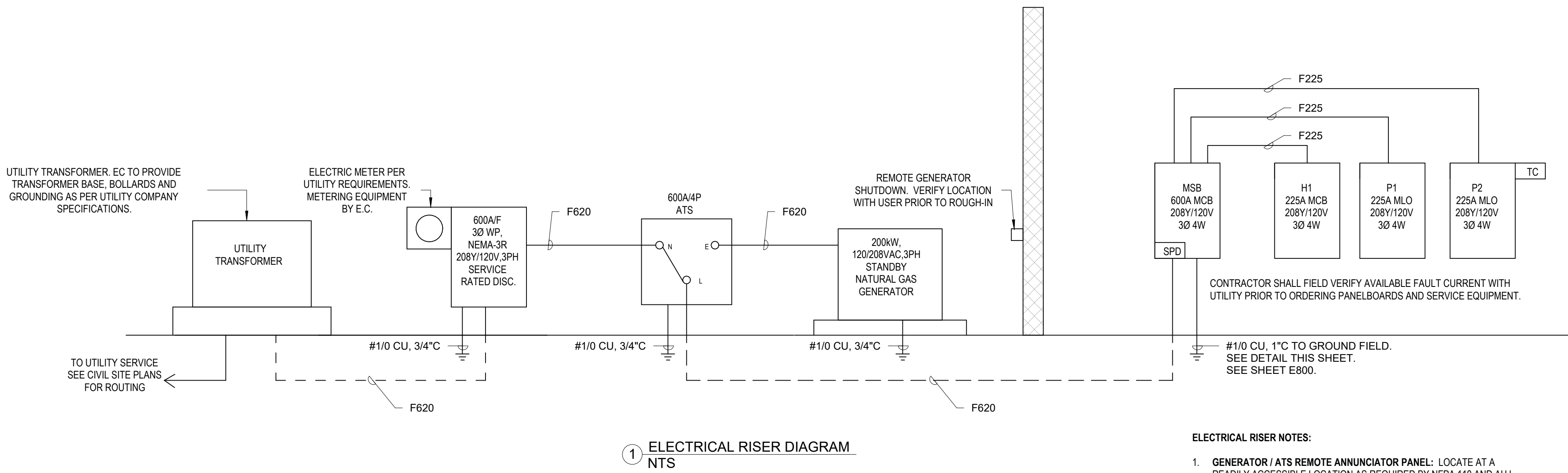
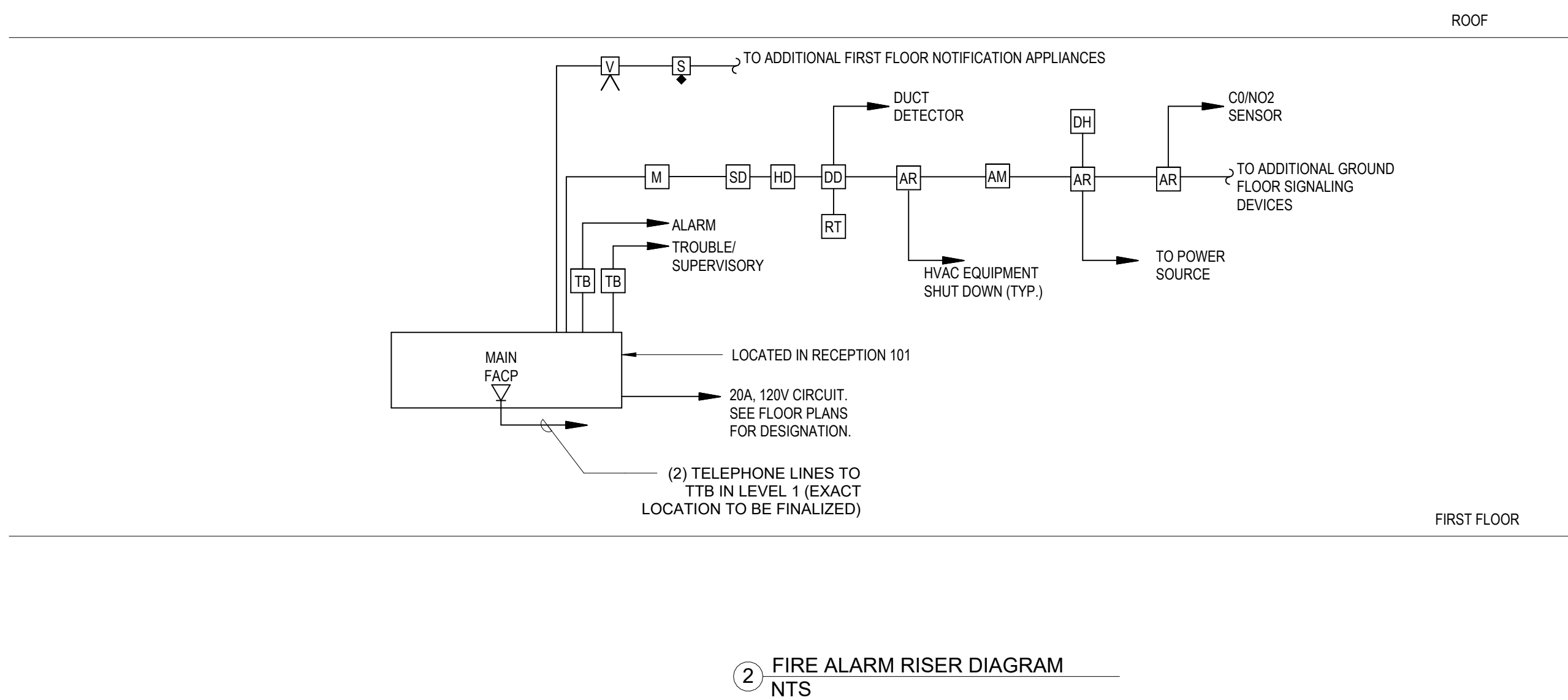




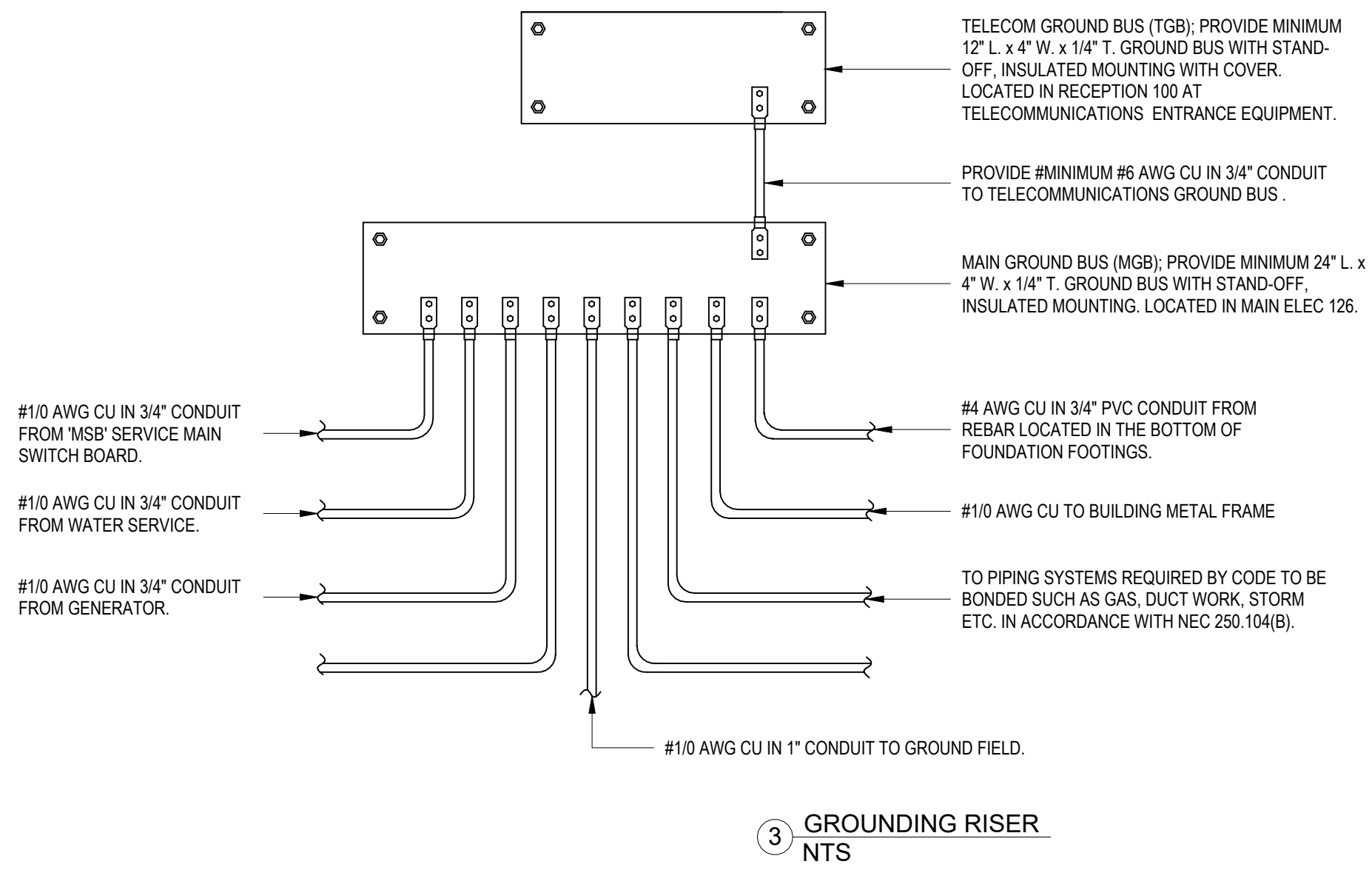
ELECTRICAL RISER NOTES:

- GENERATOR / ATS REMOTE ANNUNCIATOR PANEL: LOCATE AT A READILY ACCESSIBLE LOCATION AS REQUIRED BY NFPA 110 AND AHJ. PROVIDE VISUAL AND AUDIBLE ANNUNCIATION OF REQUIRED GENERATOR/ATS CONDITIONS. COORDINATE WITH GENERATOR AND ATS MANUFACTURER.
- PROVIDE AUTOMATIC TRANSFER SWITCH WITH INTEGRAL MICROPROCESSOR CONTROLLER, NORMAL AND EMERGENCY SOURCE MONITORING, MANUAL TEST/TRANSFER FUNCTIONS, AND INTERFACE FOR REMOTE ANNUNCIATION. ATS RATING AND POLE CONFIGURATION SHALL BE COORDINATED WITH GENERATOR NAMEPLATE RATING, SYSTEM GROUNDING METHOD, AND CONNECTED LOAD.
- PROVIDE GROUNDING AND BONDING PER REQUIREMENTS OF N.E.C. ARTICLE 250 AND SERVING UTILITY.



FIRE ALARM GENERAL NOTE:

- FIRESTOP ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE-RATED GYPSUM BOARD CEILINGS, WALLS, AND OTHER FIRE-RATED ASSEMBLIES TO MAINTAIN THE REQUIRED FIRE-RESISTANCE RATING. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE-RATING REQUIREMENTS.
- PROVIDE CONDUIT STUB-UPS TO ACCESSIBLE CEILING SPACES. ROUTE HORIZONTAL FIRE ALARM CABLING ON DEDICATED J-HOOKS OR OTHER APPROVED SUPPORTS. FIRE ALARM WIRING SHALL NOT BE ATTACHED TO, SUSPENDED FROM, OR SUPPORTED BY CONDUITS, DUCTWORK, PIPING, OR OTHER BUILDING SYSTEMS.
- FIRE ALARM WIRING SHALL BE FIRE-RATED WHERE REQUIRED BY THE APPLICABLE CODES AND SHALL MEET ALL NFPA REQUIREMENTS FOR THE TYPE OF INSTALLATION. WHERE INSTALLED IN CONCEALED LOCATIONS, TYPE MC FIRE ALARM CABLE MAY BE USED AND SHALL BE LISTED FOR USE IN AIR-HANDLING FLEXINGS WHERE APPLICABLE. FIRE ALARM WIRING INSTALLED IN EXPOSED LOCATIONS SHALL BE INSTALLED IN 3/4" CONDUIT.
- FIRE ALARM CALCULATIONS, INCLUDING BATTERY CAPACITY, SYSTEM LOAD, VOLTAGE DROP, AND WIRE SIZING, SHALL BE PERFORMED AND SUBMITTED BY THE FA CONTRACTOR AS PART OF THE FIRE ALARM SHOP DRAWING SUBMITTAL. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED DOCUMENTATION TO THE AUTHORITY HAVING JURISDICTION (AHJ).
- PROVIDE ADEQUATE CAPACITY AND EXPANSION CAPABILITY AT THE FIRE ALARM CONTROL PANEL (FACP) TO CONNECT ALL DEVICES SHOWN ON THE PLANS AND TO PROVIDE A COMPLETE, FULLY FUNCTIONAL FIRE ALARM SYSTEM.
- FIRE ALARM DEVICES SHOWN ON THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND ARE PROVIDED FOR DESIGN INTENT. COORDINATE FINAL DEVICE LOCATIONS AND INSTALLATION REQUIREMENTS WITH THE APPROVED FIRE ALARM SHOP DRAWINGS, ARCHITECTURAL PLANS, CEILING PLANS, AND FINISHES.
- PROVIDE ALL FIRE ALARM ACCESSORIES, MODULES, INTERFACES, RELAYS, POWER SUPPLIES, AND HARDWARE REQUIRED FOR A COMPLETE, OPERATIONAL, AND CODE-COMPLIANT SYSTEM. COORDINATE EQUIPMENT AND SYSTEM REQUIREMENTS WITH THE FIRE ALARM SYSTEM MANUFACTURER.
- THE FIRE ALARM SYSTEM INSTALLER SHALL VERIFY THAT THE SYSTEM COMPLIES WITH ALL APPLICABLE LOCAL FIRE MARSHAL, AHJ, NEC, NFPA, ADA, AND OTHER GOVERNING CODE REQUIREMENTS.
- INSTALL ALL FIRE ALARM DEVICES ROUGH-IN IN ACCORDANCE WITH THE APPROVED FIRE ALARM SHOP DRAWINGS AND REQUIREMENTS OF THE AHJ.
- LOCATE AND INSTALL ALL AUDIBLE, VISUAL, AND AUDIBLE/VISUAL NOTIFICATION APPLIANCES IN ACCORDANCE WITH APPLICABLE ADA AND NFPA REQUIREMENTS. ALL VISUAL STROBE NOTIFICATION APPLIANCES WITHIN THE SAME FIELD OF VIEW SHALL BE SYNCHRONIZED.
- THE FA CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND APPROVALS FOR FIRE ALARM WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE CAPACITY FOR A MINIMUM OF 10% ADDITIONAL DEVICES TO ACCOMMODATE UNKNOWN AND/OR UNFORESEEN CONDITIONS.
- CONTRACTOR SHALL PROVIDE COMPLETE TESTING, INSPECTION, PROGRAMMING, AND COMMISSIONING OF THE FIRE ALARM SYSTEM AND SHALL OBTAIN FINAL APPROVAL FROM THE AHJ. THE SYSTEM SHALL COMPLY WITH ALL APPLICABLE NEC AND NFPA REQUIREMENTS.
- PROVIDE TWO (2) TELEPHONE LINES FOR EXTERNAL FIRE ALARM MONITORING WHERE REQUIRED BY THE AHJ. PROVIDE A UL-LISTED CENTRAL STATION MONITORING SERVICE, AS REQUIRED, TO SUPERVISE THE FIRE ALARM SYSTEM AND TRANSMIT REQUIRED ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO THE APPROPRIATE RECEIVING STATION AUTHORITY.
- CONTRACTOR SHALL PROVIDE AND CONNECT ALL REQUIRED WATERFLOW AND TAMPER/SUPERVISORY DEVICES THROUGHOUT THE BUILDING. COORDINATE INSTALLATION AND CONNECTION OF THESE DEVICES WITH THE FIRE PROTECTION/SPRINKLER CONTRACTOR AND CONNECT TO THE FACP AS REQUIRED.
- NEW FIRE ALARM CONTROL PANELS SHALL BE RECESSED INTO THE WALL WHERE INDICATED. CONDUITS SHALL BE CONCEALED WHERE INSTALLED IN FINISHED AREAS UNLESS OTHERWISE APPROVED.
- ALL NEW VISUAL AND AUDIBLE/VISUAL NOTIFICATION APPLIANCES SHALL BE INSTALLED AT 8'0" AFT OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, WHERE REQUIRED FOR ADA COMPLIANCE. VERIFY FINAL MOUNTING HEIGHTS WITH APPLICABLE NFPA, ADA, AND AHJ REQUIREMENTS.
- REMOTE POWER SUPPLIES SHALL BE PROVIDED WHERE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE REQUIRED BRANCH CIRCUITS AND POWER CONNECTIONS FOR EACH REMOTE POWER SUPPLY.
- PROGRAM DUCT-MOUNTED SMOKE DETECTORS TO PROVIDE THE REQUIRED SUPERVISORY/ALARM SIGNAL AT THE FACP, AS APPLICABLE. PROVIDE REQUIRED CONTROL INTERFACES FOR HVAC EQUIPMENT SHUTDOWN AND FIRE/SMOKE DAMPER OPERATION IN ACCORDANCE WITH THE APPROVED SEQUENCE OF OPERATION AND APPLICABLE CODES.
- FIRE ALARM CONDUIT AND CABLE SHALL BE RED IN COLOR WHERE EXPOSED, UNLESS OTHERWISE REQUIRED OR APPROVED BY THE AHJ.
- FIRE ALARM SYSTEM REQUIREMENTS SHALL BE COORDINATED WITH THE FIRE MARSHAL/AHJ PRIOR TO FINAL DESIGN, SHOP DRAWING SUBMITTAL, AND IMPLEMENTATION.
- PROVIDE ALL REQUIRED FIRE ALARM SYSTEM INTERFACES WITH HVAC EQUIPMENT, SMOKE DAMPERS, FIRE/SMOKE DAMPERS, GENERATOR, FIRE PUMP, ACCESS CONTROL, SPRINKLER SYSTEM, AND OTHER BUILDING SYSTEMS AS REQUIRED BY THE APPLICABLE CODES, APPROVED SEQUENCES OF OPERATION, AND AHJ REQUIREMENTS.



NOTES:

- GROUNDING AND BONDING SYSTEM INDICATED IS SHOWN FOR CLARITY OF INTENT. ALL GROUNDING AND BONDING SHALL BE PROVIDED AS PER REQUIREMENTS N.E.C. ARTICLE 250, THE METRO NASHVILLE ELECTRICAL CODE AMENDMENTS AND THE SERVING UTILITY. VERIFY REQUIREMENTS PRIOR TO ORDERING OF MATERIALS AND ROUGH-IN.
- PROVIDE ACCESSIBLE CONNECTION TO CONCRETE-ENCASED ELECTRODE (UFER) ABOVE FINISHED FLOOR FOR INSPECTION PRIOR TO CONCEALMENT.
- BOND ALL AVAILABLE GROUNDING ELECTRODES TO FORM A SINGLE GROUNDING ELECTRODE SYSTEM.
- ALL TELECOMMUNICATIONS GROUNDING SHALL COMPLY WITH ANSI/TIA-607.
- TAG EACH GROUNDING ELECTRODE CONDUCTOR AT THE MAIN GROUND BUS INDICATING ITS SOURCE.
- ALL METALLIC PIPING, BUILDING STRUCTURAL STEEL, CABLE TRAYS, AND OTHER NORMALLY NON-CURRENT-CARRYING METALLIC PARTS SHALL BE BONDED TO THE BUILDING GROUNDING ELECTRODE SYSTEM.

FEEDER SCHEDULE - COPPER											
FDR AMPS	DESIGNATION	NUMBER OF SETS	CONDUCTOR SIZE PER CONDUIT		CONDUIT SIZE (ANY TYPE) AND QUANTITY						
			PHASE & NEUTRAL	EQUIPMENT GROUND	1P, 1N, 1G OR 2P, 1G	2P, 1N, 1G OR 3P, 1G	3P, 1N, 1G	3P, 3N, 1G	3P, 1N, 2G		
20 A	F20	1	#12	#12	3/4"	3/4"	3/4"	3/4"	3/4"		
30 A	F30	1	#10	#10	3/4"	3/4"	3/4"	3/4"	3/4"		
50 A	F50	1	#8	#8	3/4"	3/4"	1"	1"	1"		
65 A	F65	1	#6	#6	3/4"	1"	1"	1-1/4"	1-1/4"		
85 A	F85	1	#4	#6	1"	1-1/4"	1-1/4"	1-1/2"	1-1/4"		
100 A	F100	1	#3	#8	1"	1-1/4"	1-1/4"	1-1/2"	1-1/4"		
115 A	F115	1	#2	#6	1-1/4"	1-1/4"	1-1/2"	2"	1-1/2"		
130 A	F130	1	#1	#6	1-1/4"	1-1/2"	1-1/2"	2"	2"		
150 A	F150	1	#1/0	#6	1-1/4"	1-1/2"	2"	2-1/2"	2"		
175 A	F175	1	#2/0	#6	1-1/2"	2"	2"	2-1/2"	2"		
200 A	F200	1	#3/0	#6	1-1/2"	2"	2"	3"	2-1/2"		
220 A	F220	1	#4/0	#4	2"	2"	2-1/2"	3"	2-1/2"		
255 A	F255	1	#250	#4	2"	2-1/2"	3"	3"	3"		
285 A	F285	1	#300	#4	2"	2-1/2"	3"	3-1/2"	3"		
310 A	F310	1	#350	#3	2"	3"	3"	3-1/2"	3"		
335 A	F335	1	#400	#3	2-1/2"	3"	3"	4"	3"		
380 A	F380	1	#500	#3	2-1/2"	3"	3-1/2"	4"	3-1/2"		
420 A	F420	1	#600	#2	3"	3-1/2"	4"	5"	4"		
460 A	F460	2	#4/0	#2	2"	2-1/2"	3"	3"	2-1/2"		
510 A	F510	2	#250	#1	2"	2-1/2"	3"	3"	3"		
570 A	F570	2	#300	#1	2"	2-1/2"	3"	3-1/2"	3"		
620 A	F620	2	#350	#1/0	2-1/2"	3"	3"	3-1/2"	3"		
670 A	F670	2	#400	#1/0	2-1/2"	3"	3"	4"	3-1/2"		
760 A	F760	2	#500	#1/0	2-1/2"	3"	3-1/2"	4"	3-1/2"		
840 A	F840	2	#600	#2/0	3"	3-1/2"	4"	5"	4"		
1140 A	F1140	3	#500	#3/0	3"	3"	3-1/2"	5"	3-1/2"		
1260 A	F1260	3	#600	#4/0	3"	3-1/2"	4"	5"	4"		
1520 A	F1520	4	#500	#250	3"	3"	3-1/2"	5"	4"		
1680 A	F1680	4	#600	#250	3"	3-1/2"	4"	5"	4"		
2100 A	F2100	5	#600	#350	3"	3-1/2"	4"	5"	5"		
2520 A	F2520	6	#600	#400	3"	3-1/2"	4"	5"	5"		
3040 A	F3040	8	#500	#400	3"	3-1/2"	3-1/2"	5"	4"		
4200 A	F4200	10	#600	#700	3-1/2"	4"	4"	5"	5"		
5040 A	F5040	12	#600	#700	3-1/2"	4"	4"	5"	5"		
6080 A	F6080	12	#500	#800	3"	3"	3-1/2"	4"	4"		



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RFP 2027-3500-01

FIRE STATION MADISON, GA

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MADISON, GA 30650

BID DOCUMENTS

Project No.: 25-02527
Date: 08/31/26
Drawn by: VVR
Checked by: CM
Revisions:

No.	Date	Description
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ELECTRICAL
RISERS

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