

GENERAL NOTES:

- ALL WIRING, POWER, CONDUCTORS, CONDUITS ETC. SHALL MEET NYS ELECTRICAL CODE ARTICLE 760.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE NYS BUILDING CODE AND NFPA 72.
- ALL FIRE ALARM CIRCUITS SHALL BE SIZED TO INCLUDE A MINIMUM OF 20% SPARE CAPACITY.
- ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED WITH AESTHETICS IN MIND, AS FOLLOWS: PAINT ALL NEW CONDUIT AND BOXES TO MATCH EXISTING CONDITIONS, PATCH AND PAINT LOCATIONS OF REMOVED BOXES TO MATCH EXISTING.
- ALL FIRE ALARM CABINETS SHALL BE CLEARLY LABELED WITH A LAMINATE ENGRAVED LABEL.
- ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. ALL TERMINALS SHALL BE NUMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, APPROVED TERMINAL STRIPS OR SCOTCH LOCKS.
- ALL FIRE ALARM CONDUCTORS SHALL BE PROTECTED BY EITHER BUILDING CONSTRUCTION OR CONDUIT. LOADING DOCKS, GARAGES, SUPPRESSION AND EXTINGUISHING SYSTEM WIRING, MECHANICAL AND ELECTRICAL ROOMS AND OTHER LOCATIONS SUBJECT TO MECHANICAL DAMAGE SHALL BE IN FULL RIGID CONDUIT. IN ALL AREAS, WIRING MUST MEET NEC ARTICLE 760.
- FIRE ALARM CABLES SHALL NOT BE MIXED WITH NON FIRE ALARM CABLING. LOW VOLTAGE FIRE ALARM CABLING SHALL NOT BE MIXED OR WIRED NEAR ANY AC CIRCUIT.
- ALL NOTIFICATION CIRCUITS SHALL BE A MINIMUM OF 12 AWG AND ALL OTHER LOW VOLTAGE FIRE ALARM CIRCUITS SHALL BE 14 AWG MINIMUM.
- ALL WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL ABANDONED FIRE ALARM CABINETS, DEVICES, AND WIRE. PAINT, PATCH AND CLEANUP SHALL ALSO BE INCLUDED.
- FIRE ALARM PANEL SHALL PROVIDE CONTINUOUSLY SUPERVISED MONITORING OF ALL SYSTEMS FOR OPENS, SHORTS AND GROUNDS.
- UPON ENTERING THE PANEL ALARM MODE, THE ALARM INDICATING DEVICE SHALL BE ACTIVATED, AND HVAC LOADS SHALL SHUT DOWN. THE DIGITAL COMMUNICATOR SHALL NOTIFY THE CENTRAL RECEIVING STATION.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY ADDITIONAL RELAY DEVICES OR POWER TRANSFORMERS FOR PROPER OPERATION OF ALL INTERLOCKED DEVICES WITH FIRE ALARM PANEL.
- BATTERY BACKUP SHALL PROVIDE A MINIMUM OF 24 HRS OPERATION WITH A 10 MINUTE ALARM AT THE END OF 24 HRS.
- ALL WIRING SHALL BE IN ACCORDANCE WITH NFPA CODES 70, 72, 72E, AS WELL AS LOCAL AND STATE CODE REQUIREMENTS.
- FIRE ALARM SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA CODES 70, 72, 72E, AS WELL AS ALL LOCAL AND STATE CODE REQUIREMENTS.
- ENTIRE FIRE DETECTION AND ALARM SYSTEM SHALL BE FURNISHED AND INSTALLED BY A N.Y. STATE LICENSED ALARM CONTRACTOR.
- CONTRACTOR SHALL PROVIDE ALL ADDITIONAL APPURTENANCES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. MODEL NUMBERS GIVEN MAY NOT INCLUDE ALL SPECIFIC REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION.
- GENERAL LOCATIONS ARE SHOWN ON PLANS. DETECTORS SHALL NOT BE MOUNTED FURTHER THAN 30' APART AND THOSE ALONG WALLS SHALL NOT BE FURTHER THAN 15'-16" FROM THE WALL.
- SMOKE DETECTORS MUST BE MOUNTED AT LEAST 3 FEET AWAY FROM ANY AIR REGISTER.
- ALL CEILING MOUNT DEVICES MUST BE SECURELY FASTENED TO BUILDING CONSTRUCTION.
- DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIRS.
- DUCT MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON THE DUCTWORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. DETECTORS SHALL BE PROVIDED WITH A REMOTE LED.
- ALL AUXILIARY RELAYS FOR FAN SHUTDOWN, ETC SHALL BE WIRED A MAXIMUM OF 3 FT FROM THE CONTROLLED DEVICE. THE AUXILIARY RELAY SHALL FUNCTION WITHIN THE REQUIRED VOLTAGE AND CURRENT OF THE CONTROLLED DEVICE. SLAVE OR INTERPOSING RELAYS SHALL BE INCLUDED AND POWERED BY THE FIRE ALARM CONTROL PANEL IN A FAIL-SAFE (FIRE FUNCTION) POSITION. POWER TO THE INTERPOSING RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
- RISER DIAGRAM ON THIS DRAWING IS FOR DESIGN PURPOSE ONLY. FIRE ALARM CONTRACTOR SHALL PROVIDE A COMPLETE RISER DIAGRAM WITH ACTUAL FIELD WIRING REQUIRED.
- THE CONTRACTOR IS TO RE-PROGRAM THE EXISTING FIRE ALARM SYSTEM TO MATCH THE EXISTING SEQUENCE OF OPERATION.

ABBREVIATIONS

ABBREVIATION:	DESCRIPTION:
A	AMPERE
AC	ALTERNATING CURRENT
ACS	ADMINISTRATIVE CONTROL STATION
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
A/C	AIR CONDITIONING
C	CONDUIT
CAB	CABINET
CLG	CEILING
CB	CIRCUIT BREAKER
CKT(S)	CIRCUIT(S)
COL	COLUMN
DWG	DRAWING
EC	EMPTY CONDUIT
ELEC	ELECTRIC
EMR	ELEVATOR MECHANICAL ROOM
EMT	ELECTRIC METALLIC TUBING
EXH	EXHAUST
EXIST	EXISTING
FATB	FIRE ALARM TERMINAL BOX
FL	FLOOR
G	GUARD
GND	GROUND
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
IG	ISOLATED GROUND
JB	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LP	120/208V PANEL
LS	LOUDSPEAKER
LTS	LIGHTING
MTG	MASTER TELEVISION
MATV	MOTOR CONTROL CENTER
MCC	MECHANICAL
MECH	MECHANICAL EQUIPMENT ROOM
MER	MICROPHONE
MIC	MOUNTED
MTD	NEUTRAL
N	NORMALLY CLOSED
N.C.	NORMALLY OPEN
N.O.	ORANGE AND ROCKLAND
O & R	POLE(S)
P	PULL BOX
PB	PANEL
PNL	277/480V PANEL
PP	REMOTE CONTROL
RC	SPARE
SP	SOLID STATE BALLAST
SSB	STANDARD
STD	SWITCH
SW	SWITCHBOARD
SWBD	TELEPHONE
TEL	TELEVISION
TV	TYPICAL
TYP	VOLT
V	WATT
W	WEATHERPROOF
WP	

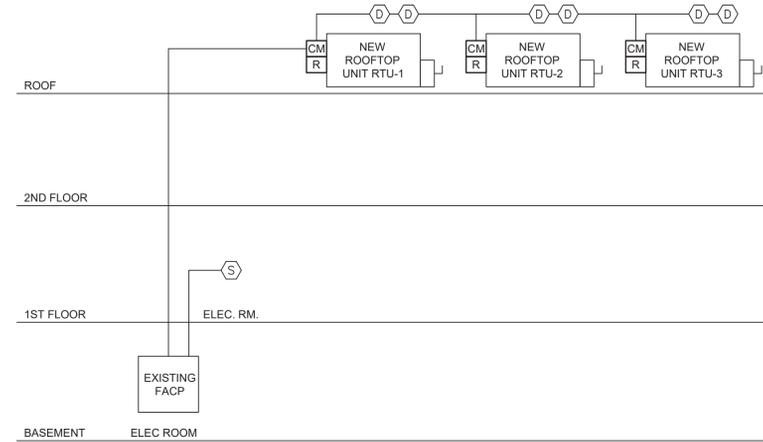
SUMMARY OF WORK:

THE WORK OF THIS PROJECT INCLUDES PROVIDING ELECTRICAL POWER TO THE HVAC UPGRADES AT STONY POINT ELEMENTARY SCHOOL. PROVIDE MATERIALS AND SERVICES AS FOLLOWS. THE FOLLOWING IS NOT INTENDED TO BE A COMPLETE DESCRIPTION OF THE WORK; PERFORM THE WORK AS HEREINAFTER DESCRIBED IN THESE CONTRACT DOCUMENTS.

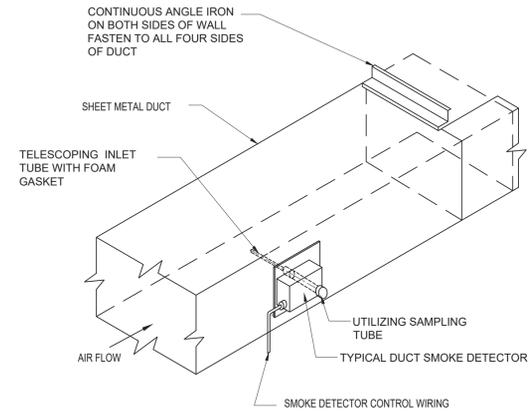
- DISCONNECT POWER TO EXISTING UNIT VENTILATORS AND RETAIN THE EXISTING CABLES AND CONDUIT.
- RECONNECT EXISTING ELECTRIC POWER TO THE NEW UNIT VENTILATORS THROUGHOUT THE BUILDING WHERE INDICATED.
- PROVIDE POWER TO ALL NEW HVAC VRF EQUIPMENT BY MAKING MODIFICATIONS TO THE EXISTING SWITCHGEAR IN THE ELECTRICAL ROOM.

SYMBOLS:

FACP	EXISTING FIRE ALARM SYSTEM CONTROL PANEL
CZ	CONTROL MODULE. "WP" INDICATES WEATHERPROOF
R	RELAY
D	DUCT MOUNTED SMOKE DETECTOR
F_S	FIRE SMOKE DAMPERS
S	SMOKE DETECTOR

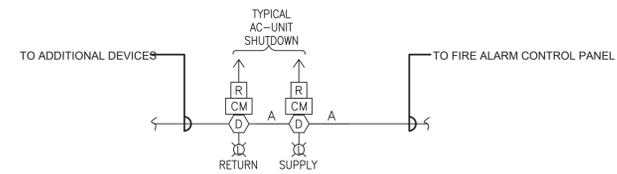


1 PARTIAL RISER DIAGRAM
SCALE: NTS



NOTE:
HVAC CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTOR AS PER MANUFACTURER'S RECOMMENDATIONS AND NFPA 72.

2 TYPICAL DUCT MOUNTED SMOKE DETECTOR DETAIL
SCALE: NTS



NOTE:
ALL DUCT DETECTORS SHALL BE PROVIDED WITH A REMOTE LED LIGHT FOR VISUAL IDENTIFICATION.

3 TYPICAL FAN SHUTDOWN DETAIL
SCALE: NTS

0 1/2
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

No.	Date	Revisions
1	03-04-25	BIDDING DOCUMENTS

Drawn by	DK/KD
Checked by	SH
Project No.	43040
Scale	AS NOTED
Date	03-04-25

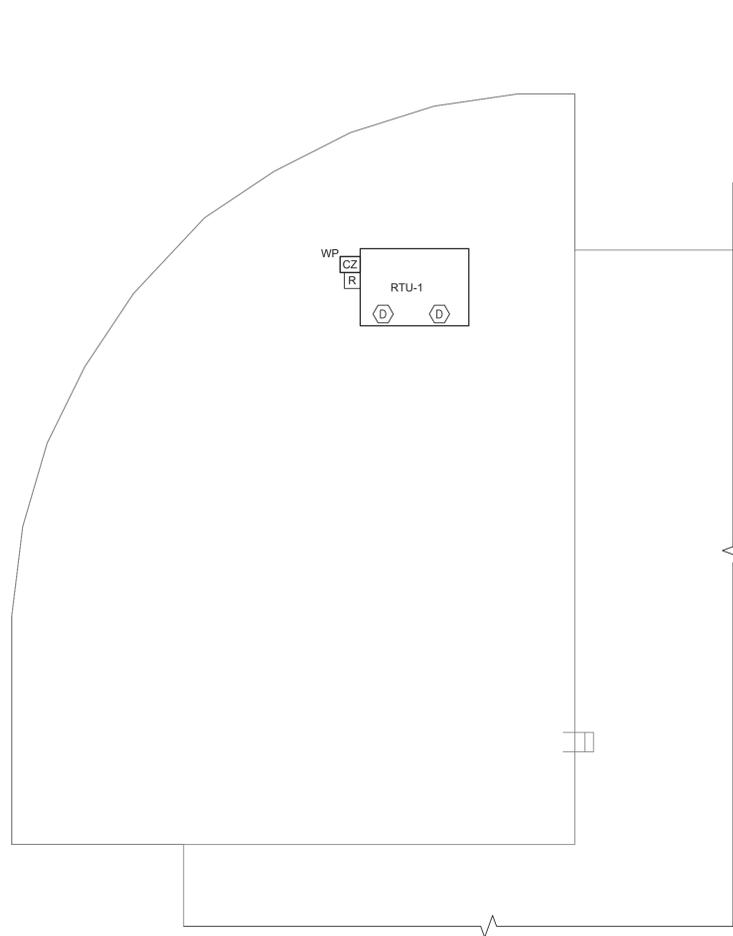
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GREENMAN PEDERSEN, INC MECHANICAL ELECTRICAL ENGINEER 1000 SUPPERMAN, NY 10001 PH: 212-512-2000	GREENMAN PEDERSEN, INC STRUCTURAL ENGINEER 1000 SUPPERMAN, NY 10001
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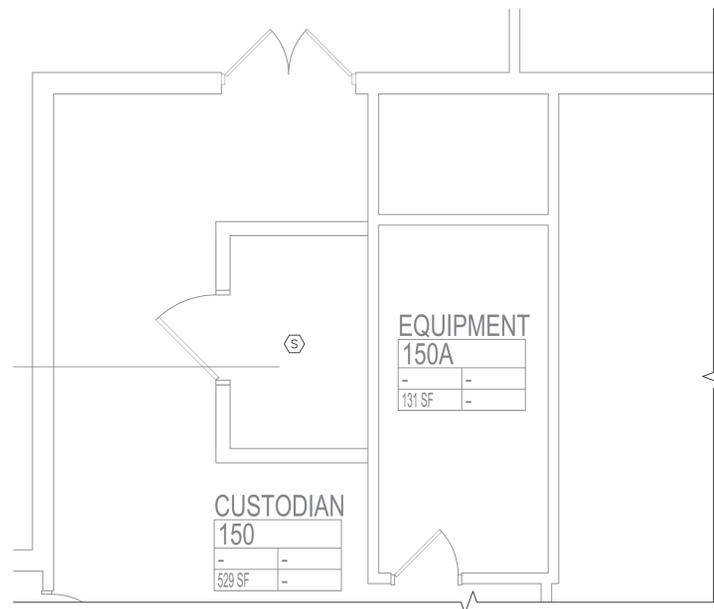
UNIVENT REPLACEMENT AT STONY POINT THIELLS, WEST HAVESTRAW ELEMENTARY SCHOOL	SED# 50-02-01-06-0-014-012 SED# 50-02-01-06-0-025-018 SED# 50-02-01-06-0-024-015
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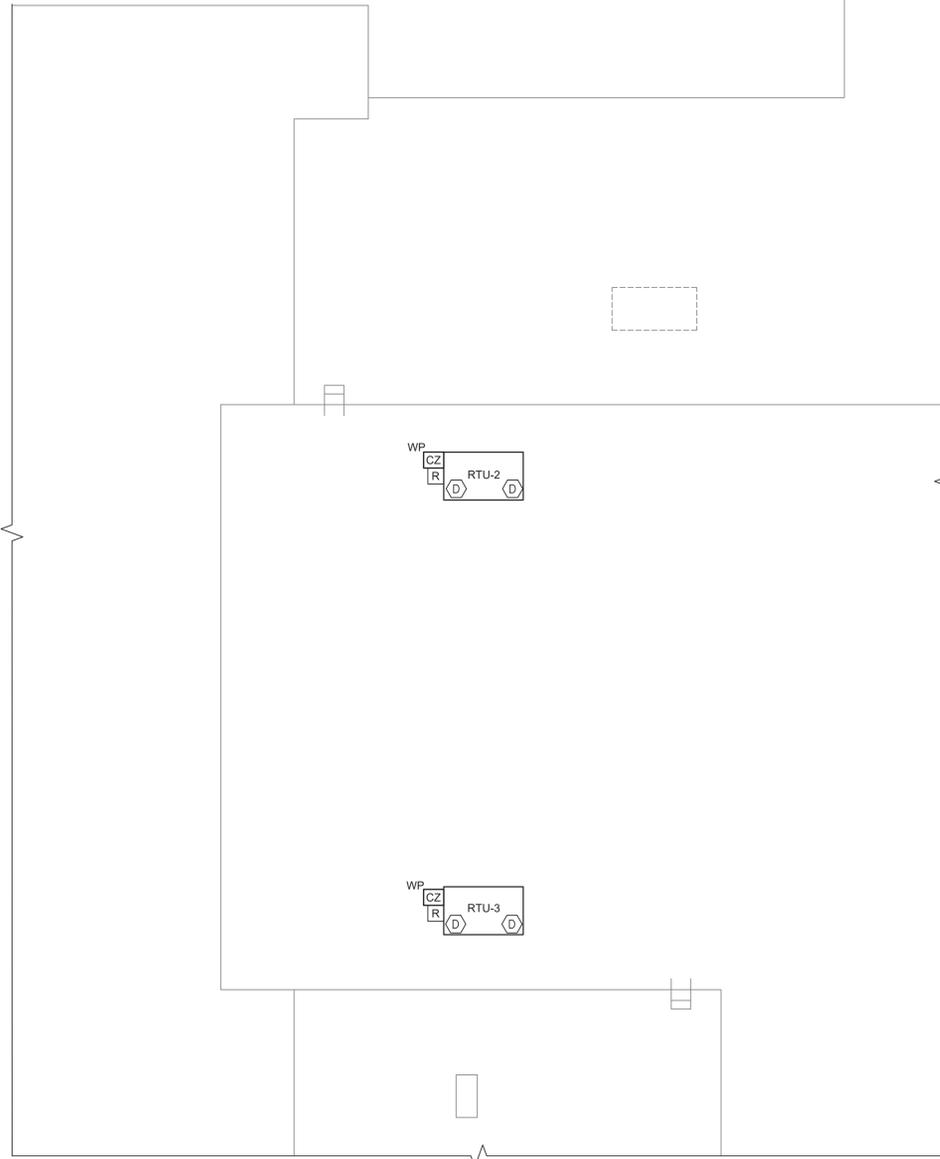
FIRE ALARM SYSTEM GENERAL NOTES, SYMBOL LIST AND ABBREVIATIONS
Drawing No. SPES-FA-001



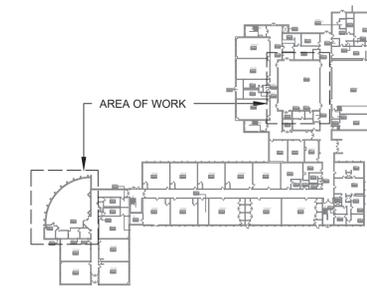
1 FIRE ALARM SYSTEM LIBRARY ROOF PART PLAN
SCALE: 3/32"=1'-0"



3 FIRE ALARM SYSTEM NEW ELECTRICAL ROOM PART PLAN
SCALE: 1/4"=1'-0"



2 FIRE ALARM SYSTEM GYMNASIUM ROOF PART PLAN
SCALE: 3/32"=1'-0"



KEY PLAN



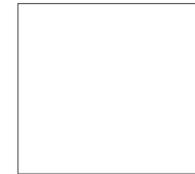
PLAN NORTH

PLAN NOTES:

- FOR GENERAL NOTES, SYMBOL LIST, ABBREVIATIONS AND FIRE ALARM SYSTEM DRAWING LIST REFER TO DWG FA001.00.
- FOR EXACT LOCATION AND QUANTITIES OF MECHANICAL AND PLUMBING EQUIPMENT AND DEVICES REFER TO MECHANICAL AND PLUMBING DWGS.
- ALL CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS ARE TO BE PROVIDED WITH FIRE STOP SEALS AS REQUIRED BY CODE TO MAINTAIN FIRE RATING OF PARTITIONS.
- UNLESS OTHERWISE NOTED ON DRAWING MOUNTING HEIGHTS OUTLETS AND EQUIPMENT SHALL BE AS INDICATED ON SYMBOL LIST & SPECIFICATIONS.
- ACCESS SHALL BE PROVIDED TO EACH DETECTOR FOR PERIODIC INSPECTION, MAINTENANCE AND TESTING AS PER SECTION 907.12 OF N.Y.C. BUILDING CODE.

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

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1	03-04-25	BIDDING DOCUMENTS



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Date	03-04-25

Mechanical Electrical Engineer:	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD STONY POINT, NY 10981 PROJ. NO. : MNY-200008.00
Structural Engineer:	GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD STONY POINT, NY 10981

UNIVENT REPLACEMENT AT
STONY POINT, THIELLS,
WEST HAVESTRAW
ELEMENTARY SCHOOL
SDA# 50-02-01-06-0-014-012
SDA# 50-02-01-06-0-025-018
SDA# 50-02-01-06-0-024-015
STONY POINT, NY 10980



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Drawing Title
**FIRE ALARM SYSTEM
ROOF PLAN**
Drawing No.
SPES-FA-101