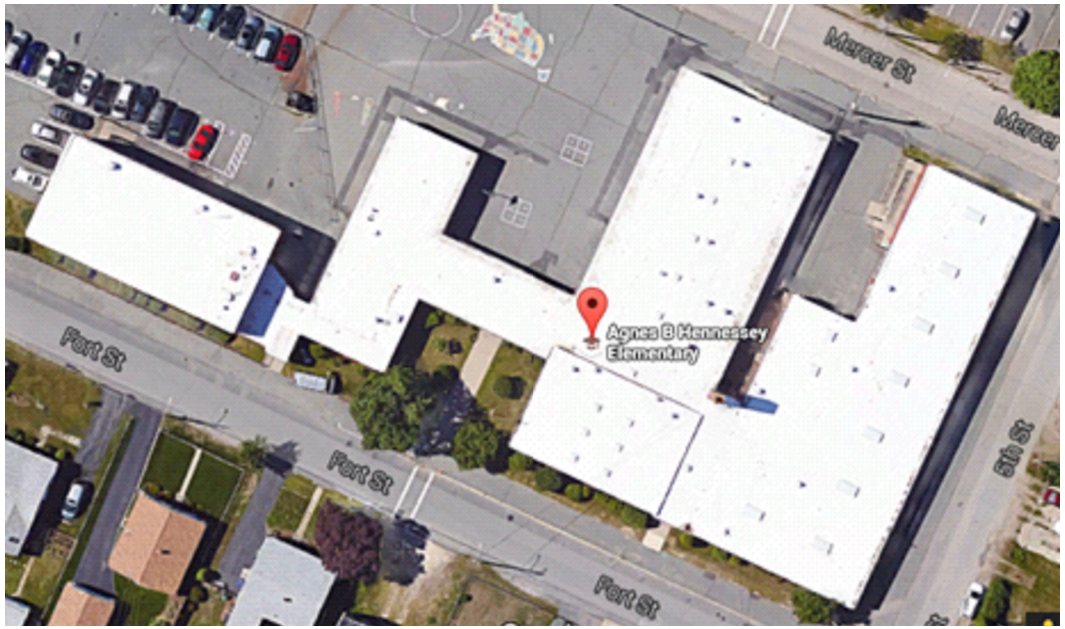
AGNES B. HENNESSEY ELEMENTARY SCHOOL
FIRE ALARM & LIFE SAFETY UPGRADES

75 FORT STREET, EAST PROVIDENCE, RI 02914
PROJECT NO. 1KCT00085.000
APRIL 25, 2016



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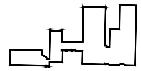
KEY PLAN



NO.	REVISION	DATE

PROJECT
HENNESSEY ELEMENTARY SCHOOL
FIRE ALARM AND LIFE SAFETY UPGRADES

ADDRESS: 75 FORT STREET, EAST PROVIDENCE, RI 02914

PROJECT NO: 1KCT00085.000

DATE: APRIL 25, 2016

DESIGN: KCT

DRAWN BY: JP

CHECKED BY: KCT

SCALE: 0 4' 8' 16' — 1/8"=1'-0"

TITLE: COVER SHEET

NUMBER: CS-0.0

SHEET: 1 OF 10

GENERAL NOTES

1. THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE RHODE ISLAND FIRE CODE (NFPA 1-2012 EDITION, AS AMENDED), RHODE ISLAND LIFE SAFETY CODE (NFPA 101-2012 EDITION, AS AMENDED), NFPA 72-2010 EDITION, THE CONSTRUCTION DRAWINGS AND THE MASTER TECHNICAL SPECIFICATIONS PREPARED BY JENSEN HUGHES.
2. THE SCOPE OF WORK INCLUDES FURNISHING ALL SERVICES, EQUIPMENT, PERMITS, TESTING, ETC. THAT ARE REQUIRED TO INSTALL A COMPLETE AND APPROVED AUTOMATIC FIRE ALARM SYSTEM IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS AND AS INDICATED ON THE DRAWINGS AND IN THE MASTER TECHNICAL SPECIFICATIONS.
3. THE SCOPE OF WORK INCLUDES COORDINATING THE FIRE ALARM SYSTEM INSTALLATION WITH THE OTHER TRADES, CONTRACTORS, THE OWNER AND JENSEN HUGHES.
4. ALL CONTROL EQUIPMENT, INITIATING DEVICES AND NOTIFICATION APPLIANCES SHALL BE UL LISTED.
5. ALL NEW SIGNALING LINE CIRCUITS (SLC) SHALL BE INSTALLED CLASS A. AND ALL NEW NOTIFICATION APPLIANCE CIRCUITS (NAC) SHALL BE INSTALLED CLASS A. EACH SLC AND NAC SHALL NOT BE LOADED TO MORE THAN 75% OF ITS RATED CAPACITY.
6. ALL WALL-MOUNTED VISIBLE NOTIFICATION APPLIANCES AND COMBINATION AUDIBLE/VISIBLE NOTIFICATION APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES AND NOT GREATER THAN 96 INCHES ABOVE THE FINISHED FLOOR. ALL WALL-MOUNTED AUDIBLE NOTIFICATION APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90 INCHES AND BELOW THE FINISHED CEILING AT DISTANCES NOT LESS THAN 6 INCHES.
7. ALL WIRING SHALL BE INSTALLED IN METAL RACEWAY OR APPROVED MC CABLE. MC CABLE SHALL NOT BE PERMITTED TO BE INSTALLED EXPOSED.
8. UPON FINAL ACCEPTANCE OF THE NEW FIRE ALARM SYSTEM BY JENSEN HUGHES, THE OWNER AND THE EAST PROVIDENCE FIRE DEPARTMENT, ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT AND COMPONENTS SHALL BE REMOVED. EXISTING FIRE ALARM SYSTEM EQUIPMENT AND COMPONENTS INCLUDE RACEWAY, WIRING, DEVICES, APPLIANCES AND CONTROL EQUIPMENT. ALL DEMOLISHED FIRE ALARM SYSTEM DEVICES AND CONTROL EQUIPMENT SHALL BE BOXED AND RETURNED TO THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF CEILING TILES WHERE EXISTING DEVICES ARE LOCATED.
9. THE CONTRACTOR SHALL REPAIR ALL CONSTRUCTION WHERE EXISTING FIRE ALARM DEVICES HAVE BEEN REMOVED. WALLS SHALL BE PATCHED AND PAINTED. CEILING TILES SHALL BE REPLACED WHERE DAMAGED. THE USE OF BLANK COVER PLATES SHALL ONLY BE PERMITTED WHERE APPROVED BY JENSEN HUGHES AND THE OWNER. WHERE APPROVED, COVER PLATES SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.
10. THE FIRE ALARM CONTROL UNIT SHALL BE PROVIDED WITH BYPASS BUTTONS FOR NOTIFICATION APPLIANCES, HVAC SHUTDOWN CIRCUITS AND DOOR HOLD OPEN CIRCUITS.
11. THE FIRE ALARM SYSTEM CONTRACTOR SHALL DETERMINE THE QUANTITY OF REMOTE POWER SUPPLIES AND AUDIO AMPLIFIERS TO SUPPORT ALL NOTIFICATION APPLIANCES SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL FIELD LOCATE THE REMOTE POWER SUPPLIES AND AUDIO AMPLIFIERS. THE LOCATION OF EACH REMOTE POWER SUPPLY AND AUDIO AMPLIFIER SHALL BE APPROVED BY THE OWNER AND JENSEN HUGHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, PROGRAMMING AND TESTING A SMOKE DETECTOR IN THE VICINITY OF ALL FIRE ALARM CONTROL EQUIPMENT INCLUDING REMOTE POWER SUPPLIES AND AUDIO AMPLIFIERS.
12. THE FIRE ALARM SYSTEM SHALL AUTOMATICALLY SOUND THE RECORDED VOICE EVACUATION SIGNAL AND ACTIVATE THE VISIBLE NOTIFICATION APPLIANCES. THE PRE-RECORDED VOICE MESSAGE SHALL USE A FEMALE VOICE. THE PRE-RECORDED VOICE MESSAGE AND ASSOCIATED GUIDELINES OF THE ALERT TONE SHALL BE APPROVED BY THE EAST PROVIDENCE FIRE DEPARTMENT.
13. ALL AUDIO CIRCUITS SHALL BE SYNCHRONIZED THROUGHOUT THE BUILDING SUCH THAT THERE ARE NO DELAYS IN VOICE MESSAGE TRANSMISSION THROUGHOUT THE BUILDING.
14. MEANS SHALL BE PROVIDED AT THE MAIN FACU TO SELECTIVELY MANUALLY OPERATE THE AUDIBLE NOTIFICATION APPLIANCES. THE MAIN FACU SHALL BE EQUIPPED WITH A MICROPHONE AND SUITABLE SWITCHES TO SELECTIVELY TRANSMIT VOICE COMMUNICATIONS TO THE BUILDING. SPEAKER CIRCUITS SHALL BE SYNCHRONIZED THROUGHOUT THE BUILDING.
15. ALL SPEAKER NOTIFICATION APPLIANCES SHALL BE TAPPED AT 1-WATT IN COMMON CORRIDORS, LOBBIES, GYMNASIUM, MECHANICAL ROOMS, BOILER ROOMS AND OTHER COMMON AREAS. SPEAKER NOTIFICATION APPLIANCES SHALL BE TAPPED AT 1/2-WATT IN ALL CLASSROOMS AND CONFERENCE ROOMS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR A MINIMUM OF 8 HOURS TO MAKE ANY NECESSARY SPEAKER TAP ADJUSTMENTS IN THE FIELD AS DIRECTED BY JENSEN HUGHES.
17. THE SEPARATION BETWEEN THE OUTGOING AND RETURN CIRCUITS SHALL BE A MINIMUM OF 1-FOOT VERTICALLY AND 4-FEET HORIZONTALLY, WHERE PRACTICAL.
18. THE CONTRACTOR SHALL PROVIDE ADDRESSABLE CONTROL RELAY MODULES FOR AIR HANDLING UNIT (AHU) SHUTDOWN ON ALL AHUS SUPPLYING MORE THAN 2,000 CFM. THE CONTROL RELAY MODULES SHALL SHUTDOWN EACH AHU VIA THE LINE VOLTAGE CONTROLS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL PAM AND RIB RELAYS AND ASSOCIATED 24VDC POWER NOT SHOWN TO COMPLETE THE REQUIRED SHUTDOWNS. CONTROL RELAY MODULES SHALL BE INSTALLED WITHIN 5-FEET OF THE CONTROL CIRCUIT. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DUCT SMOKE DETECTORS IN ALL AHUS SUPPLYING MORE THAN 2,000 CFM.
19. THE CONTRACTOR SHALL PROVIDE STOPPER II COVERS ON ALL MANUAL FIRE ALARM BOXES.
20. THE CONTRACTOR SHALL PROVIDE PROTECTIVE CAGES ON ALL FIRE ALARM AND EMERGENCY LIGHTING EQUIPMENT INSTALLED IN THE GYMNASIUM.
21. ALL FIRE ALARM EQUIPMENT INSTALLED IN 2' X 2' ACOUSTICAL CEILING TILES IS TO BE CENTERED IN THE CEILING TILE. ALL FIRE ALARM EQUIPMENT INSTALLED IN 2' X 4' ACOUSTICAL CEILING TILES IS TO BE INSTALLED 1'-0" FROM THE SIDE OF THE CEILING TILE.
22. CONTRACTOR SHALL CONNECT ALL EXISTING MAGNETIC DOOR HOLD OPENS TO NEW FIRE ALARM SYSTEM.
23. THE CONTRACTOR SHALL BE REQUIRED TO CONDUCT A 100% PRE-ACCEPTANCE TEST OF THE NEW FIRE ALARM SYSTEM. THIS TEST SHALL BE WITNESSED BY JENSEN HUGHES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE PRE-ACCEPTANCE TEST.
24. THE CONTRACTOR SHALL BE REQUIRED TO CONDUCT AND SCHEDULE AN ACCEPTANCE TEST OF THE NEW FIRE ALARM SYSTEM FOR APPROVAL BY THE EAST PROVIDENCE FIRE DEPARTMENT.

CONCEPTUAL RISER DIAGRAM NOTES

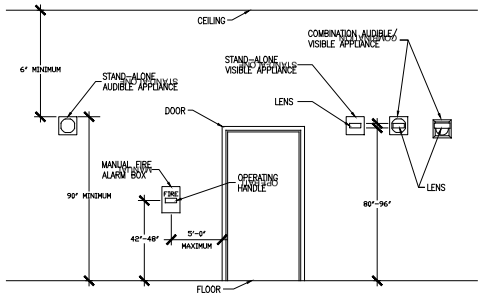
1. THE RISER DIAGRAM IS CONCEPTUAL IN NATURE. IT DOES NOT INTEND TO REPRESENT ACTUAL WIRING AND RACEWAY INSTALLATION. ALL CONDUCTORS AND WIRING SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, NFPA 72-2010 EDITION AND NFPA 70-2011 EDITION.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL REMOTE NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLIES AND AUDIO AMPLIFIERS AS NECESSARY. A SMOKE DETECTOR SHALL BE INSTALLED IN THE VICINITY OF EACH REMOTE POWER SUPPLY AND EACH REMOTE AUDIO AMPLIFIER. EACH REMOTE POWER SUPPLY AND EACH REMOTE AUDIO AMPLIFIER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION APPROVED BY JENSEN HUGHES AND THE OWNER.
3. THE INSTALLING CONTRACTOR SHALL FIELD LOCATE THE FAULT ISOLATION MODULES. A MINIMUM OF THREE FAULT ISOLATOR MODULES SHALL BE INSTALLED ON EACH SIGNALING LINE CIRCUIT. NO MORE THAN 25 ADDRESSABLE DEVICES SHALL BE PERMITTED TO BE INSTALLED BETWEEN FAULT ISOLATION MODULES. THE NUMBER OF ADDRESSABLE DEVICES BETWEEN FAULT ISOLATION MODULES SHALL ALSO BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
4. THE NUMBER OF CONDUCTORS SHALL BE DETERMINED BY THE FIRE ALARM SYSTEM CONTRACTOR UPON DETERMINING THE REQUIRED QUANTITY AND LOCATIONS OF REMOTE POWER SUPPLIES AND AUDIO AMPLIFIERS NECESSARY FOR THE FIRE ALARM SYSTEM TO OPERATE AS DESCRIBED IN THE MASTER TECHNICAL SPECIFICATIONS.
5. THE SEPARATION BETWEEN THE OUTGOING AND RETURN CIRCUITS SHALL BE A MINIMUM OF 1-FOOT VERTICALLY AND 4-FEET HORIZONTALLY, WHERE PRACTICAL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF AND THE CONNECTION TO BUILDING POWER FOR ALL FIRE ALARM CONTROL EQUIPMENT.

DEMO NOTES

1. THE SCOPE OF WORK INCLUDES THE DEMOLITION OF THE EXISTING FIRE ALARM SYSTEM AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE MASTER TECHNICAL SPECIFICATION.
2. ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT AND COMPONENTS, EXCLUDING THE EXISTING MASTERBOX, SHALL BE REMOVED UPON ACCEPTANCE OF THE NEW FIRE ALARM SYSTEM. EXISTING FIRE ALARM SYSTEM EQUIPMENT AND COMPONENTS INCLUDE RACEWAY, WIRING, DEVICES, AND APPLIANCES. ALL EXISTING FIRE ALARM SYSTEM EQUIPMENT AND COMPONENTS SHALL BE RETURNED TO THE OWNER.
3. THE FIRE ALARM EQUIPMENT DEMOLITION DRAWINGS PROVIDE A PARTIAL LAYOUT OF THE EXISTING FIRE ALARM SYSTEM THAT IS TO BE DEMOLISHED. THESE DRAWINGS DO NOT SHOW ALL EXISTING EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL EXISTING FIRE ALARM EQUIPMENT. EXISTING HEAT DETECTION, WHICH IS REQUIRED TO BE REMOVED, IS ALSO LOCATED ABOVE SHEACCESSIBLE CEILINGS. ALL EXISTING DEVICES ARE TO BE REMOVED.

FIRE ALARM & LIFE SAFETY SYMBOL LEGEND	
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
CD, RR/135	COMBINATION RATE OF RISE AND FIXED TEMPERATURE 135°F ADDRESSABLE HEAT DETECTOR
CD, 190	FIXED TEMPERATURE 190°F ADDRESSABLE HEAT DETECTOR
F	ADDRESSABLE DOUBLE-ACTION MANUAL FIRE ALARM BOX
S	SPEAKER NOTIFICATION APPLIANCE - CEILING MOUNTED
CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
CD	STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - WALL MOUNTED (CANDELA RATING AS NOTED)
FACP	FIRE ALARM CONTROL UNIT
MB	MASTERBOX (EXISTING TO REMAIN)
FD	FIRE DRILL SWITCH
IMM	ADDRESSABLE MONITOR MODULE
CM	ADDRESSABLE CONTROL MODULE
—H—H—	LINEAR HEAT DETECTION (ABOVE CEILING) WITH REMOTE TEST SWITCH
	24 VDC MAGNETIC DOOR HOLD OPEN DEVICE
	WALL MOUNTED EXIT SIGN
	WALL MOUNTED EXIT SIGN WITH DIRECTION ARROW
	CEILING MOUNTED TWO SIDED WITH DIRECTION ARROWS
	COMBINATION EXIT SIGN AND EMERGENCY LIGHT
	EMERGENCY LIGHT
EXIT	NEW REMOTE EMERGENCY LIGHT (EXTERIOR)
	SURFACE MOUNTED LIGHTS ON EMERGENCY CIRCUIT
	EXISTING REMOTE EMERGENCY LIGHT

SUBSCRIPT LEGEND			
E	EXISTING DEVICE TO REMAIN	WF	WATERFLOW SWITCH
R	EXISTING DEVICE TO BE REMOVED AND REPLACED	TS	VALVE SUPERVISORY SWITCH
X	EXISTING DEVICE TO BE REMOVED	LHD	LINEAR HEAT DETECTION



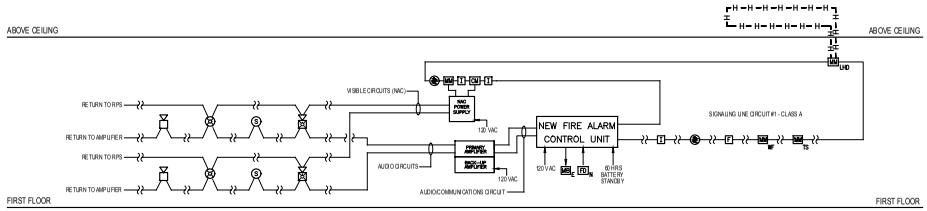
TYPICAL MOUNTING HEIGHT DETAIL FOR WALL-MOUNTED COMPONENTS

SCALE: NOT TO SCALE

FIRE ALARM OPERATIONS MATRIX	REQUIRED SYSTEM OUTPUTS														
	ANNUNCIATION AND INDICATION						OFF PREMISES SIGNAL TRANSMISSION			ANCILLARY FUNCTIONS					
SYSTEM INPUTS	ACTUATE AUDIBLE AND VISIBLE FIRE ALARM NOTIFICATION APPLIANCES	ACTUATE REMOTE VISIBLE ALARM INDICATOR (IF FACU)	ACTUATE REMOTE SUPERVISORY INDICATOR (IF FACU)	ACTUATE REMOTE TROUBLE INDICATOR (IF FACU)	ACTUATE REMOTE PROVE FIRE INDICATOR (IF FACU)	TRANSMIT ALARM SIGNAL TO ENTER PROVIDENCE FIRE DEPARTMENT VIA AUSTRALIA RADIO MASTERBOX	SHUTDOWN ALL SUPPLY AND AIR HANDLING UNITS (SEE NOTES 1 AND 2)	TRANSFER FIRE ALARM SYSTEM TO SECONDARY POWER	RELEASE MAGNETIC DOOR HOLD OPEN DEVICES	SHUTDOWN HVAC AND CLOSE DAMPERS IN DUCT DETECTOR ACTUATION
ALARM SIGNALS															
MANUAL FIRE ALARM BOX	●	●			●		●				●		●		
AUTOMATIC DETECTION DEVICE (HEAT OR SMOKE DETECTOR) INITIATION OR WATERFLOW SWITCH	●	●			●		●				●		●		
ABOVE CEILING LINEAR HEAT DETECTION	●	●			●		●				●		●		
DUCT SMOKE DETECTOR				●											●
SUPERVISORY SIGNALS															
SPRINKLER VALVE SUPERVISORY SWITCH			●		●										
TROUBLE SIGNALS															
OPEN CIRCUIT (SEE NOTE 2)				●											
CIRCUIT GROUND FAULT (SEE NOTE 1)				●											
AC POWER FAILURE (SEE NOTE 1)				●								●			

NOTE 1: SYSTEM SHALL REMAIN OPERATIONAL DURING FAULT.
NOTE 2: NOTIFICATION APPLIANCE CIRCUITS SHALL REMAIN OPERATIONAL.

SEQUENCE OF OPERATIONS



1 **CONCEPTUAL RISER DIAGRAM**

SCALE: NOT TO SCALE

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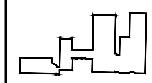

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HENNESSEY ELEMENTARY SCHOOL
FIRE ALARM AND LIFE SAFETY UPGRADES

ADDRESS: 75 FORT STREET, EAST PROVIDENCE, RI 02914

PROJECT NO: 1KCT00085.000

DATE: APRIL 25, 2016

DESIGN: KCT

DRAWN BY: JP

CHECKED BY: KCT

SCALE: 0 4' 8' 16' — 1/8"=1'-0"

TITLE: GENERAL NOTES, SYMBOL LEGEND AND RISER DIAGRAM

NUMBER: FA-0.1

SHEET: 2 OF 10

FIRE ALARM & LIFE SAFETY SYMBOL LEGEND	
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
RoR/135	COMBINATION RATE OF RISE AND FIXED TEMPERATURE 135°F ADDRESSABLE HEAT DETECTOR
190	FIXED TEMPERATURE 190°F ADDRESSABLE HEAT DETECTOR
F	ADDRESSABLE DOUBLE-ACTION MANUAL FIRE ALARM BOX
S	SPEAKER NOTIFICATION APPLIANCE - CEILING MOUNTED
CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
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FACP	FIRE ALARM CONTROL UNIT
MB	MASTERBOX (EXISTING TO REMAIN)
FD	FIRE DRILL SWITCH
UM	ADDRESSABLE MONITOR MODULE
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EXIT	NEW REMOTE EMERGENCY LIGHT (EXTERIOR)
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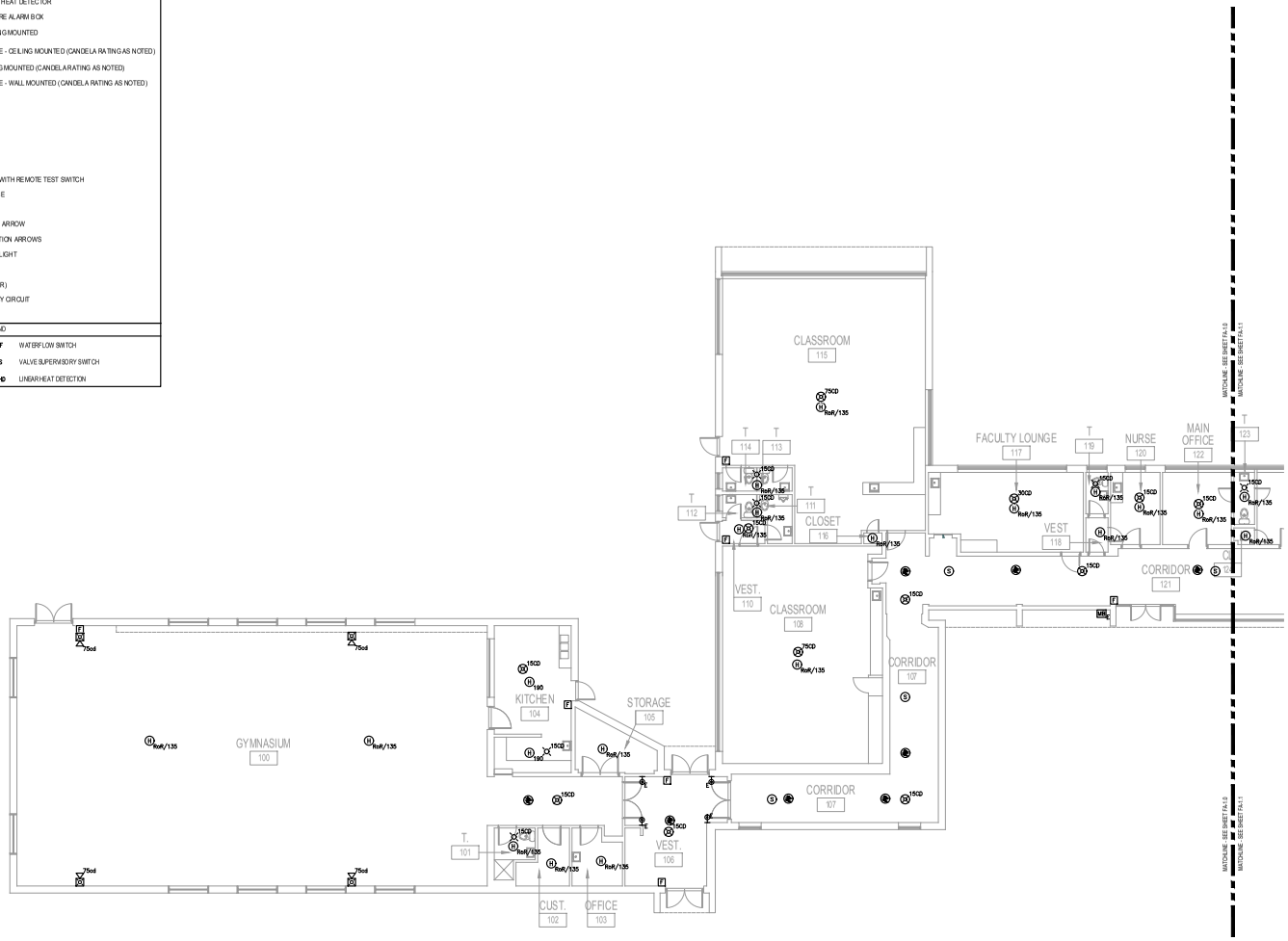

1 **FIRST FLOOR SOUTH FIRE ALARM PLAN**

SCALE: 1/8" = 1'-0"

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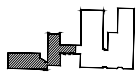

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SHEET: 3 OF 10

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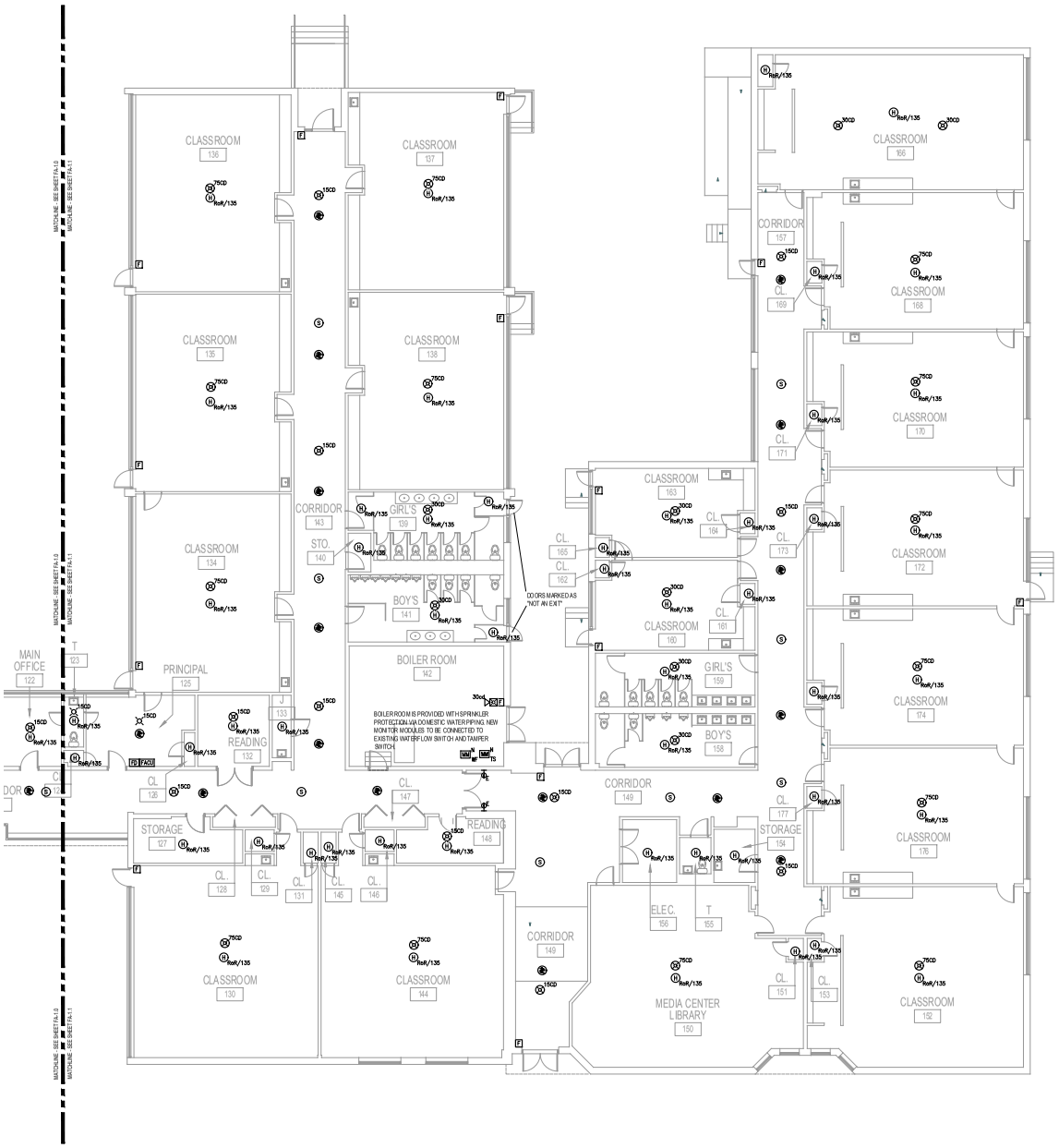

FIRST FLOOR NORTH FIRE ALARM PLAN

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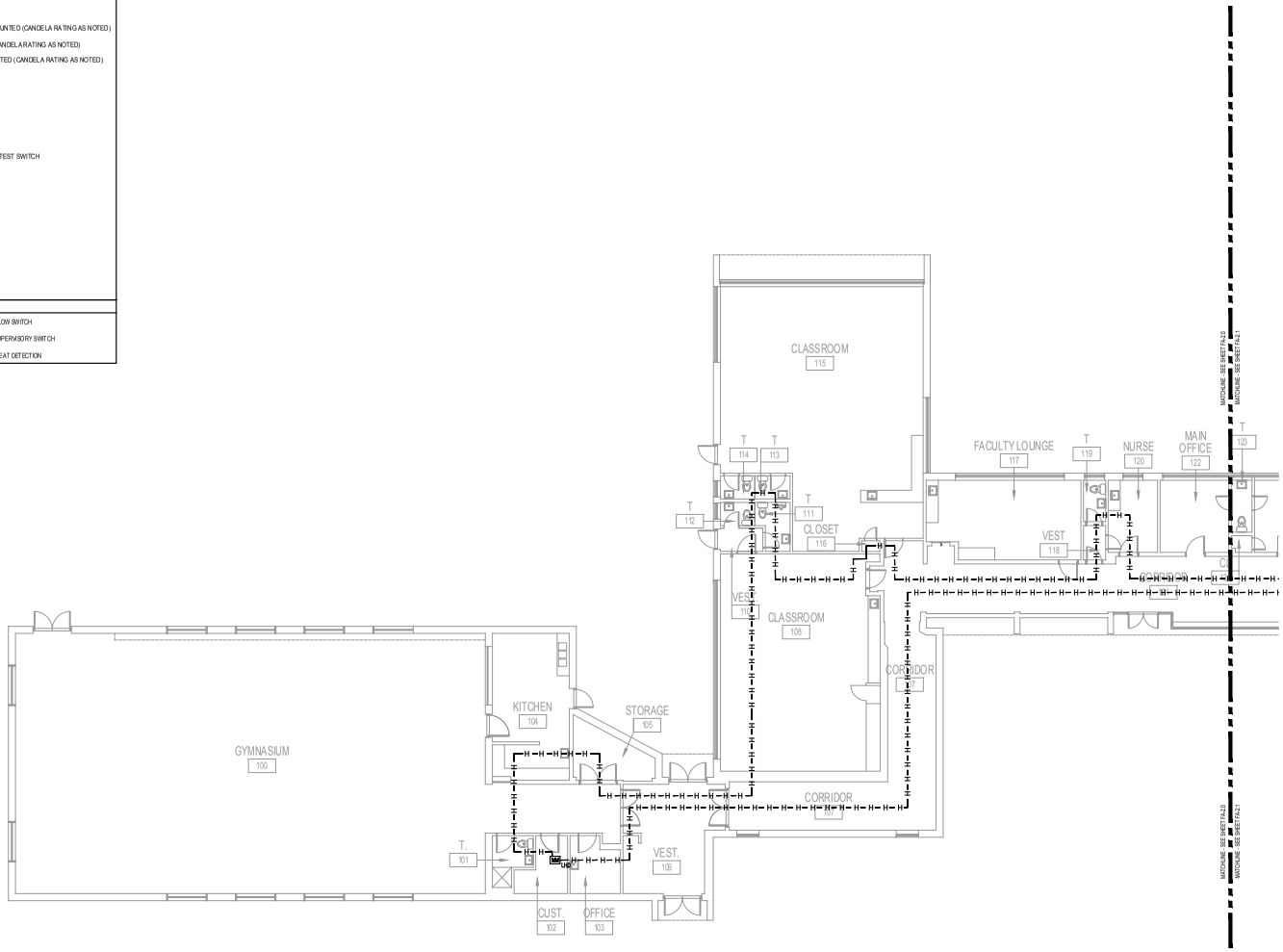
SHEET 4 OF 10

FIRE ALARM & LIFE SAFETY SYMBOL LEGEND	
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
CR/135	COMBINATION RATE OF RISE AND FIXED TEMPERATURE 135°F ADDRESSABLE HEAT DETECTOR
190	FIXED TEMPERATURE 190°F ADDRESSABLE HEAT DETECTOR
F	ADDRESSABLE DOUBLE-ACTION MANUAL FIRE ALARM BOX
S	SPEAKER NOTIFICATION APPLIANCE - CEILING MOUNTED
CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
CD	STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - WALL MOUNTED (CANDELA RATING AS NOTED)
FACP	FIRE ALARM CONTROL UNIT
MB	MASTERBOX (EXISTING TO REMAIN)
FD	FIRE DRILL SWITCH
MM	ADDRESSABLE MONITOR MODULE
CM	ADDRESSABLE CONTROL MODULE
—H—H—	LINEAR HEAT DETECTION (ABOVE CEILING) WITH REMOTE TEST SWITCH
	24 VDC MAGNETIC DOOR HOLD OPEN DEVICE
	WALL MOUNTED EXIT SIGN
	WALL MOUNTED EXIT SIGN WITH DIRECTION ARROW
	CEILING MOUNTED TWO SIDED WITH DIRECTION ARROWS
	COMBINATION EXIT SIGN AND EMERGENCY LIGHT
	EMERGENCY LIGHT
EXIT	NEW REMOTE EMERGENCY LIGHT (EXTERIOR)
	SURFACE MOUNTED LIGHTS ON EMERGENCY CIRCUIT
	EXISTING REMOTE EMERGENCY LIGHT

SUBSCRIPT LEGEND			
E	EXISTING DEVICE TO REMAIN	W	WATERFLOW SWITCH
R	EXISTING DEVICE TO BE REMOVED AND REPLACED	TS	VALVE SUPERVISORY SWITCH
X	EXISTING DEVICE TO BE REMOVED	LHD	LINEAR HEAT DETECTION



1 **FIRST FLOOR SOUTH ABOVE-CEILING FIRE ALARM PLAN**

SCALE: 1/8" = 1'-0"

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SEAL

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KEY PLAN

NO.	REVISION	DATE

PROJECT

HENNESSEY ELEMENTARY SCHOOL
FIRE ALARM AND LIFE SAFETY
UPGRADES

ADDRESS: 75 FORT STREET
EAST PROVIDENCE, RI 02914

PROJECT NO: 1KCT00085.000

DATE: APRIL 25, 2016

DESIGN: KCT

DRAWN BY: JP

CHECKED BY: KCT

SCALE: 0 4' 8' 16'
1/8"=1'-0"

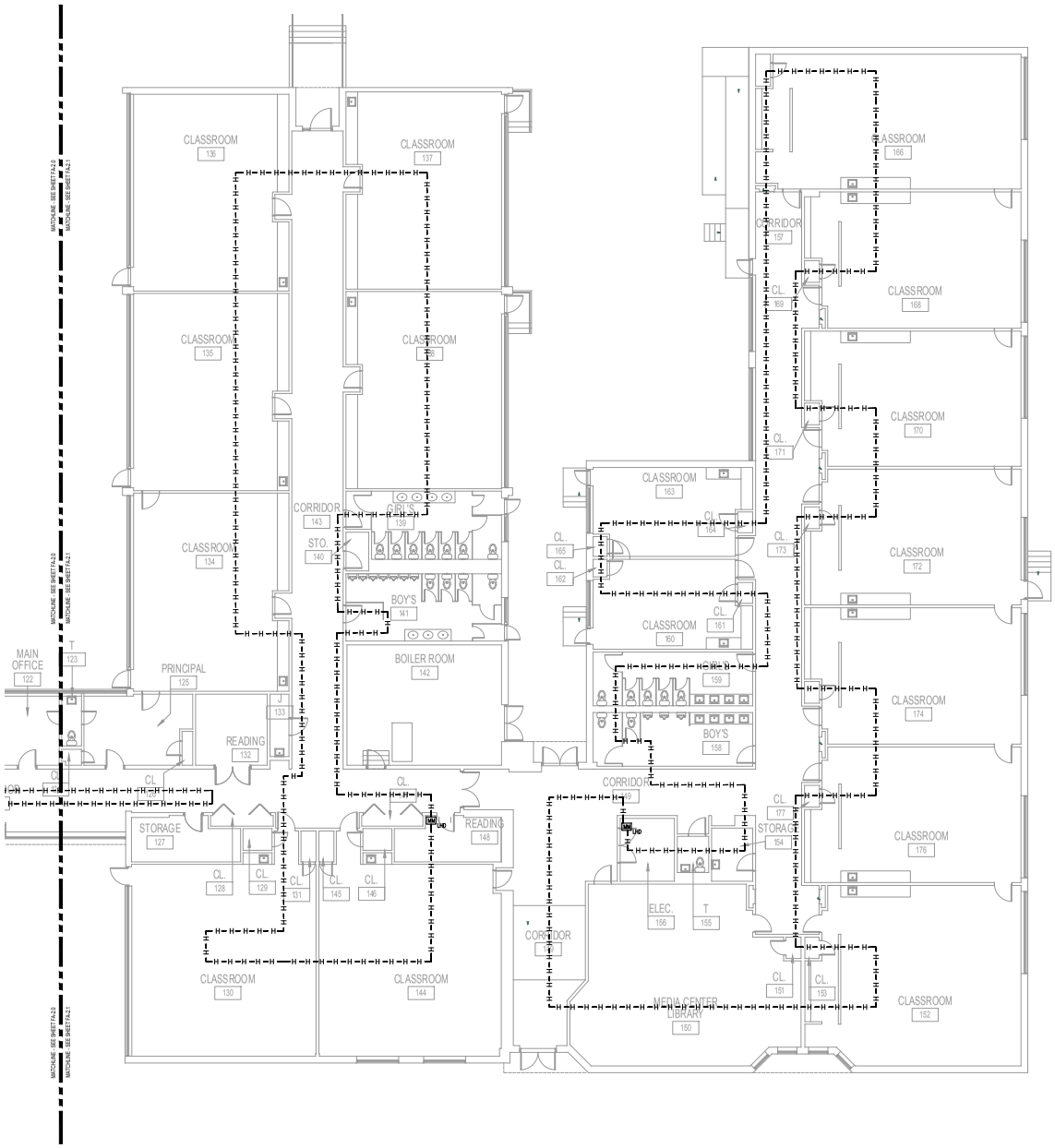
TITLE: FIRST FLOOR SOUTH ABOVE CEILING FIRE ALARM PLAN

NUMBER: FA-2.0

SHEET: 5 OF 10

FIRE ALARM & LIFE SAFETY SYMBOL LEGEND	
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
R 135	COMBINATION RATE OF RISE AND FIXED TEMPERATURE 135°F ADDRESSABLE HEAT DETECTOR
H 190	FIXED TEMPERATURE 190°F ADDRESSABLE HEAT DETECTOR
F	ADDRESSABLE DOUBLE-ACTION MANUAL FIRE ALARM BOX
S	SPEAKER NOTIFICATION APPLIANCE - CEILING MOUNTED
CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
CD	STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - WALL MOUNTED (CANDELA RATING AS NOTED)
FACP	FIRE ALARM CONTROL UNIT
MB	MASTERBOX (EXISTING TO REMAIN)
FD	FIRE DRILL SWITCH
MM	ADDRESSABLE MONITOR MODULE
CM	ADDRESSABLE CONTROL MODULE
—H—H—	LINEAR HEAT DETECTION (ABOVE CEILING) WITH REMOTE TEST SWITCH
	24 VDC MAGNETIC DOOR HOLD OPEN DEVICE
	WALL MOUNTED EXIT SIGN
	WALL MOUNTED EXIT SIGN WITH DIRECTION ARROW
	CEILING MOUNTED TWO SIDED WITH DIRECTION ARROWS
	COMBINATION EXIT SIGN AND EMERGENCY LIGHT
	EMERGENCY LIGHT
	NEW REMOTE EMERGENCY LIGHT (EXTERIOR)
	SURFACE MOUNTED LIGHTS ON EMERGENCY CIRCUIT
	EXISTING REMOTE EMERGENCY LIGHT

SUBSCRIPT LEGEND			
E	EXISTING DEVICE TO REMAIN	W	WATERFLOW SWITCH
R	EXISTING DEVICE TO BE REMOVED AND REPLACED	TS	VALVE SUPERVISORY SWITCH
X	EXISTING DEVICE TO BE REMOVED	LHD	LINEAR HEAT DETECTION



1 **FIRST FLOOR NORTH ABOVE-CEILING FIRE ALARM PLAN**
SCALE: 1/8" = 1'-0"

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KEY PLAN

NO.	REVISION	DATE

PROJECT
HENNESSEY ELEMENTARY SCHOOL
FIRE ALARM AND LIFE SAFETY UPGRADES

ADDRESS
75 FORT STREET
EAST PROVIDENCE, RI 02914

PROJECT NO 1KCT00085.000
DATE APRIL 25, 2016
DESIGN KCT
DRAWN BY JP
CHECKED BY KCT
SCALE 0 4' 8' 16' 1/8"=1'-0"

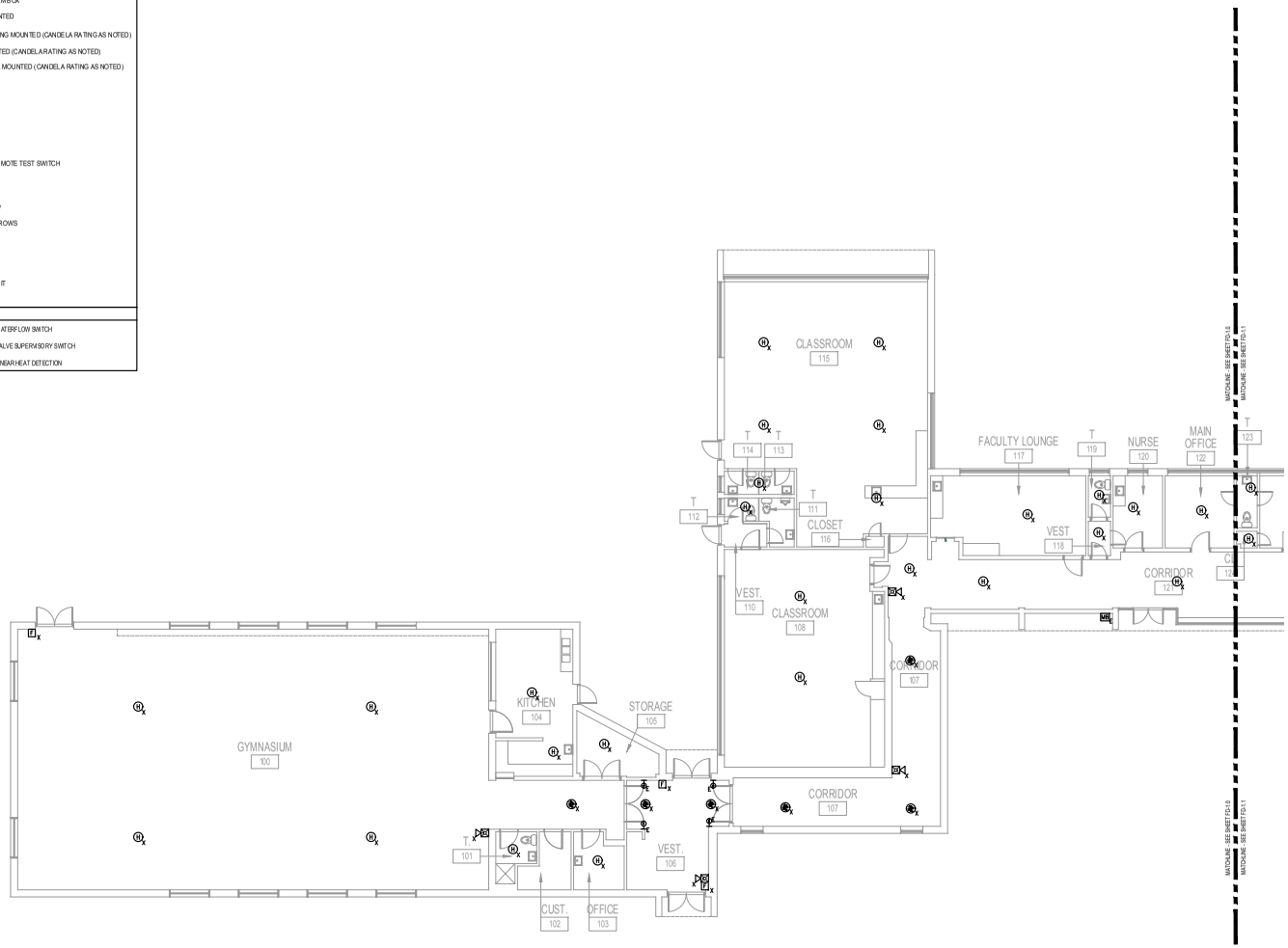
TITLE
FIRST FLOOR NORTH ABOVE CEILING FIRE ALARM PLAN

NUMBER
FA-2.1

SHEET 6 OF 10

FIRE ALARM & LIFE SAFETY SYMBOL LEGEND	
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
H ROR/135	COMBINATION RATE OF RISE AND FIXED TEMPERATURE 135°F ADDRESSABLE HEAT DETECTOR
H 190	FIXED TEMPERATURE 190°F ADDRESSABLE HEAT DETECTOR
F	ADDRESSABLE DOUBLE-ACTION MANUAL FIRE ALARM BOX
S	SPEAKER NOTIFICATION APPLIANCE - CEILING MOUNTED
S CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
S CD	STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
S CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - WALL MOUNTED (CANDELA RATING AS NOTED)
FACP	FIRE ALARM CONTROL UNIT
MB	MASTERBOX (EXISTING TO REMAIN)
FD	FIRE DRILL SWITCH
MM	ADDRESSABLE MONITOR MODULE
CM	ADDRESSABLE CONTROL MODULE
—H—H—	LINEAR HEAT DETECTION (ABOVE CEILING) WITH REMOTE TEST SWITCH
	24 VDC MAGNETIC DOOR HOLD OPEN DEVICE
	WALL MOUNTED EXIT SIGN
	WALL MOUNTED EXIT SIGN WITH DIRECTION ARROW
	CEILING MOUNTED TWO SIDED WITH DIRECTION ARROWS
	COMBINATION EXIT SIGN AND EMERGENCY LIGHT
	EMERGENCY LIGHT
EXIT	NEW REMOTE EMERGENCY LIGHT (EXTERIOR)
	SURFACE MOUNTED LIGHTS ON EMERGENCY CIRCUIT
	EXISTING REMOTE EMERGENCY LIGHT

SUBSCRIPT LEGEND			
E	EXISTING DEVICE TO REMAIN	W	WATERFLOW SWITCH
R	EXISTING DEVICE TO BE REMOVED AND REPLACED	TS	VALVE SUPERVISORY SWITCH
X	EXISTING DEVICE TO BE REMOVED	LHD	LINEAR HEAT DETECTION



1 **FIRST FLOOR SOUTH DEMO FIRE ALARM PLAN**

SCALE: 1/8" = 1'-0"

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KEY PLAN

NO.	REVISION	DATE

PROJECT

HENNESSEY ELEMENTARY SCHOOL
FIRE ALARM AND LIFE SAFETY
UPGRADES

ADDRESS: 75 FORT STREET
EAST PROVIDENCE, RI 02914

PROJECT NO: 1KCT00085.000

DATE: APRIL 25, 2016

DESIGN: KCT

DRAWN BY: JP

CHECKED BY: KCT

SCALE: 0 4' 8' 16' 1/8"=1'-0"

TITLE: FIRST FLOOR SOUTH DEMO FIRE ALARM PLAN

NUMBER: FD-1.0

SHEET: 7 OF 10

FIRE ALARM & LIFE SAFETY SYMBOL LEGEND	
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
RoR/135	COMBINATION RATE OF RISE AND FIXED TEMPERATURE 135°F ADDRESSABLE HEAT DETECTOR
190	FIXED TEMPERATURE 190°F ADDRESSABLE HEAT DETECTOR
F	ADDRESSABLE DOUBLE-ACTION MANUAL FIRE ALARM BOX
S	SPEAKER NOTIFICATION APPLIANCE - CEILING MOUNTED
CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
CD	STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - WALL MOUNTED (CANDELA RATING AS NOTED)
FACU	FIRE ALARM CONTROL UNIT
MB	MASTERBOX (EXISTING TO REMAIN)
FD	FIRE DRILL SWITCH
UM	ADDRESSABLE MONITOR MODULE
CM	ADDRESSABLE CONTROL MODULE
—H—H—	LINEAR HEAT DETECTION (ABOVE CEILING) WITH REMOTE TEST SWITCH
	24 VDC MAGNETIC DOOR HOLD OPEN DEVICE
	WALL MOUNTED EXIT SIGN
	WALL MOUNTED EXIT SIGN WITH DIRECTION ARROW
	CEILING MOUNTED TWO SIDED WITH DIRECTION ARROWS
	COMBINATION EXIT SIGN AND EMERGENCY LIGHT
	EMERGENCY LIGHT
EXIT	NEW REMOTE EMERGENCY LIGHT (EXTERIOR)
	SURFACE MOUNTED LIGHTS ON EMERGENCY CIRCUIT
	EXISTING REMOTE EMERGENCY LIGHT

SUBSCRIPT LEGEND			
E	EXISTING DEVICE TO REMAIN	W	WATERFLOW SWITCH
R	EXISTING DEVICE TO BE REMOVED AND REPLACED	TS	VALVE SUPERVISORY SWITCH
X	EXISTING DEVICE TO BE REMOVED	LHD	LINEAR HEAT DETECTION

FIRST FLOOR NORTH DEMO FIRE ALARM PLAN

SCALE: 1/8" = 1'-0"

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KEY PLAN

NO.	REVISION	DATE

PROJECT

HENNESSEY ELEMENTARY SCHOOL
FIRE ALARM AND LIFE SAFETY UPGRADES

ADDRESS: 75 FORT STREET, EAST PROVIDENCE, RI 02914

PROJECT NO: 1KCT00085.000

DATE: APRIL 25, 2016

DESIGN: KCT

DRAWN BY: JP

CHECKED BY: KCT

SCALE: 0 4' 8' 16' — 1/8"=1'-0"

TITLE: FIRST FLOOR NORTH DEMO FIRE ALARM PLAN

NUMBER: FD-1.1

SHEET: 8 OF 10

FIRE ALARM & LIFE SAFETY SYMBOL LEGEND	
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
H RoR/135	COMBINATION RATE OF RISE AND FIXED TEMPERATURE 135°F ADDRESSABLE HEAT DETECTOR
H 190	FIXED TEMPERATURE 190°F ADDRESSABLE HEAT DETECTOR
F	ADDRESSABLE DOUBLE-ACTION MANUAL FIRE ALARM BOX
S	SPEAKER NOTIFICATION APPLIANCE - CEILING MOUNTED
S CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
S CD	STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
S CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - WALL MOUNTED (CANDELA RATING AS NOTED)
FACP	FIRE ALARM CONTROL UNIT
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MM	ADDRESSABLE MONITOR MODULE
CM	ADDRESSABLE CONTROL MODULE
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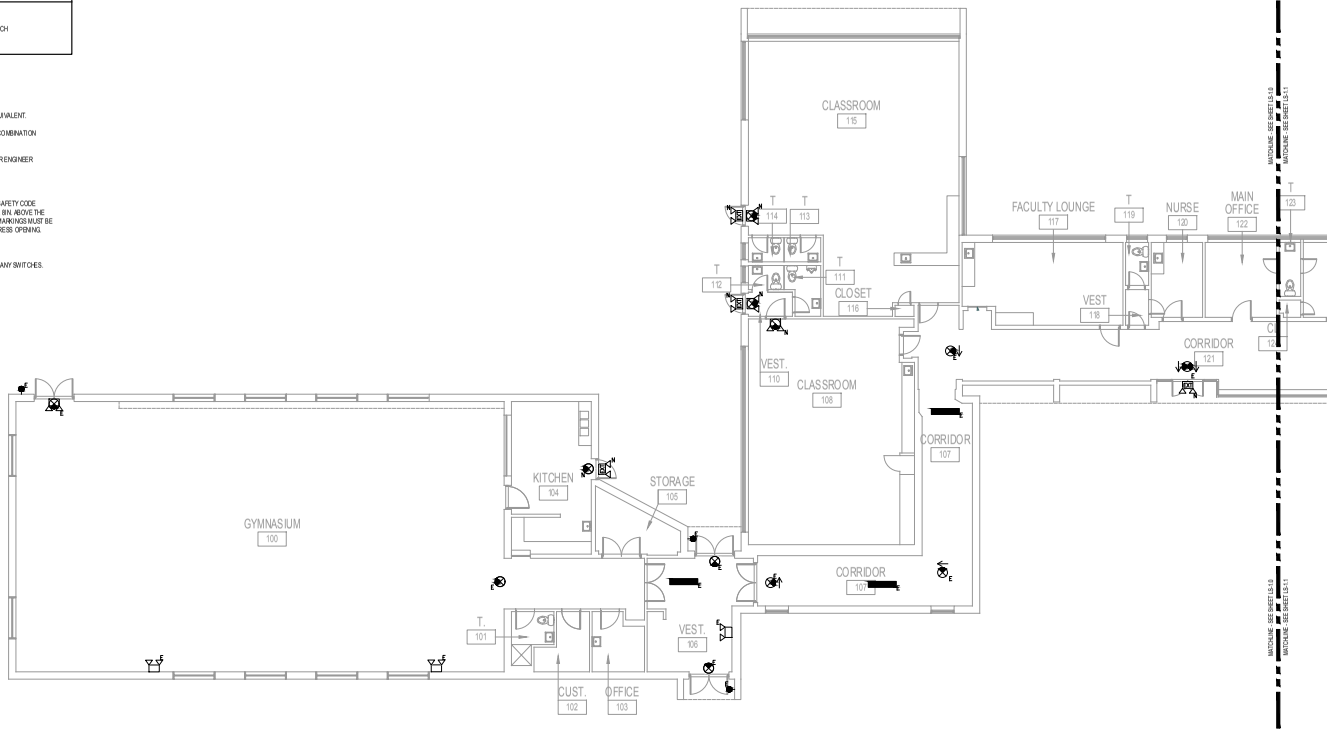
	24 VDC MAGNETIC DOOR HOLD OPEN DEVICE
	WALL MOUNTED EXIT SIGN
	WALL MOUNTED EXIT SIGN WITH DIRECTION ARROW
	CEILING MOUNTED TWO SIDED WITH DIRECTION ARROWS
	COMBINATION EXIT SIGN AND EMERGENCY LIGHT
	EMERGENCY LIGHT
EXIT	NEW REMOTE EMERGENCY LIGHT (EXTERIOR)
	SURFACE MOUNTED LIGHTS ON EMERGENCY CIRCUIT
	EXISTING REMOTE EMERGENCY LIGHT

SUBSCRIPT LEGEND			
E	EXISTING DEVICE TO REMAIN	W	WATER FLOW SWITCH
R	EXISTING DEVICE TO BE REMOVED AND REPLACED	TS	VALVE SUPERVISORY SWITCH
X	EXISTING DEVICE TO BE REMOVED	LHD	LINEAR HEAT DETECTION

SHEET NOTES

1. ALL ILLUMINATED EXIT SIGNS MUST BE MULE MX SERIES MODEL OR ENGINEER APPROVED EQUIVALENT.
2. ALL COMBINATION BATTERY-POWERED ILLUMINATED LIGHTS AND EXIT SIGNS MUST BE MULE COMBINATION SERIES SQ MODEL OR ENGINEER APPROVED EQUIVALENT.
3. ALL BATTERY-POWERED EMERGENCY LIGHTING MUST BE MULE ECONO-LITE SERIES MODEL OR ENGINEER APPROVED EQUIVALENT.
4. CONTRACTOR TO PROVIDE NEW BATTERIES FOR NEW EMERGENCY LIGHTING SYSTEM.
5. NEW EGRESS MARKINGS MUST BE MOUNTED IN ACCORDANCE WITH THE RHODE ISLAND LIFE SAFETY CODE (RILSC) SECTION 7.10.19 AND BE MOUNTED AT A VERTICAL DISTANCE OF NOT MORE THAN 6FT. 8IN. ABOVE THE TOP EDGE OF THE EGRESS OPENING. RILSC SECTION 7.10.19 ALSO REQUIRES THAT EGRESS MARKINGS MUST BE LOCATED AT A HORIZONTAL DISTANCE NOT GREATER THAN THE REQUIRED WIDTH OF THE EGRESS OPENING.
6. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING.
7. PROVIDE AC POWER TO EACH UNIT AND FEED EXIT SIGNS AND EMERGENCY LIGHTS PRIOR TO ANY SWITCHES.



1 **FIRST FLOOR SOUTH LIFE SAFETY PLAN**

SCALE: 1/8" = 1'-0"

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KEY PLAN

NO.	REVISION	DATE

PROJECT

HENNESSEY ELEMENTARY SCHOOL
FIRE ALARM AND LIFE SAFETY
UPGRADES

ADDRESS: 75 FORT STREET
EAST PROVIDENCE, RI 02914

PROJECT NO: 1KCT00085.000

DATE: APRIL 25, 2016

DESIGN: KCT

DRAWN BY: JP

CHECKED BY: KCT

SCALE: 0 4' 8' 16'
1/8"=1'-0"

TITLE: FIRST FLOOR SOUTH LIFE SAFETY PLAN

NUMBER: LS-1.0

SHEET: 9 OF 10

FIRE ALARM & LIFE SAFETY SYMBOL LEGEND	
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
CR/135	COMBINATION RATE OF RISE AND FIXED TEMPERATURE 135°F ADDRESSABLE HEAT DETECTOR
190	FIXED TEMPERATURE 190°F ADDRESSABLE HEAT DETECTOR
F	ADDRESSABLE DOUBLE- ACTION MANUAL FIRE ALARM BOX
S	SPEAKER NOTIFICATION APPLIANCE - CEILING MOUNTED
CD	SPEAKER/STROBE NOTIFICATION APPLIANCE - CEILING MOUNTED (CANDELA RATING AS NOTED)
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	WALL MOUNTED EXIT SIGN WITH DIRECTION ARROW
	CEILING MOUNTED TWO SIDED WITH DIRECTION ARROWS
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	NEW REMOTE EMERGENCY LIGHT (EXTERIOR)
	SURFACE MOUNTED LIGHTS ON EMERGENCY CIRCUIT
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SUBSCRIPT LEGEND			
E	EXISTING DEVICE TO REMAIN	W	WATERFLOW SWITCH
R	EXISTING DEVICE TO BE REMOVED AND REPLACED	TS	VALVE SUPERVISORY SWITCH
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SHEET NOTES

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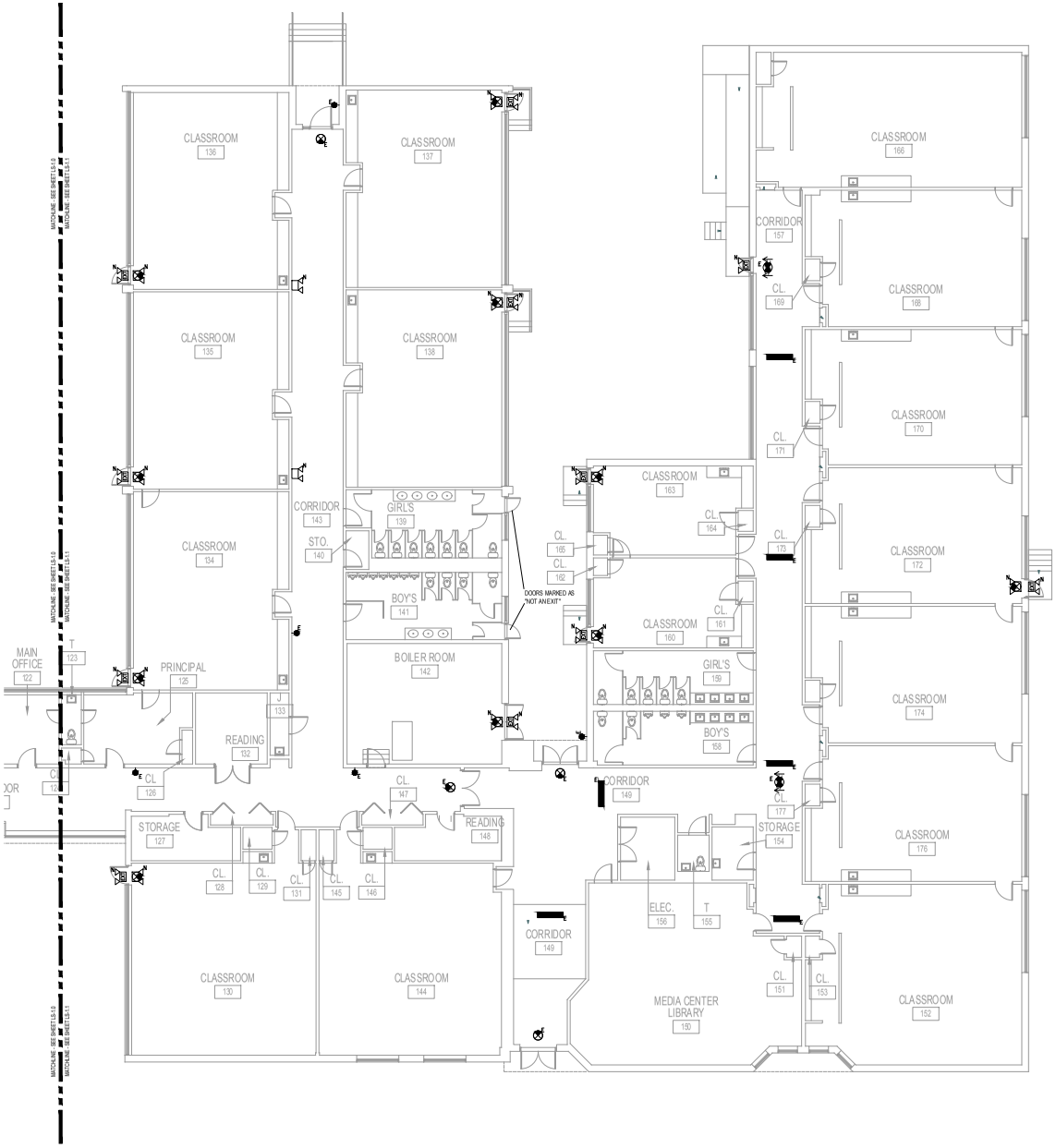
3. ALL BATTERY-POWERED EMERGENCY LIGHTING MUST BE MULE ECONO-LITE SERIES MODEL OR ENGINEER APPROVED EQUIVALENT.
4. CONTRACTOR TO PROVIDE NEW BATTERIES FOR NEW EMERGENCY LIGHTING SYSTEM.
5. NEW EGRESS MARKINGS MUST BE MOUNTED IN ACCORDANCE WITH THE RHODE ISLAND LIFE SAFETY CODE (RILSC) SECTION 7.10.1.9 AND BE MOUNTED AT A VERTICAL DISTANCE OF NOT MORE THAN 6FT. 8IN. ABOVE THE TOP EDGE OF THE EGRESS OPENING. RILSC SECTION 7.10.1.9 ALSO REQUIRES THAT EGRESS MARKINGS MUST BE LOCATED AT A HORIZONTAL DISTANCE NOT GREATER THAN THE REQUIRED WIDTH OF THE EGRESS OPENING.
6. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING.
7. PROVIDE AC POWER TO EACH UNIT AND FEED EXIT SIGNS AND EMERGENCY LIGHTS PRIOR TO ANY SWITCHES.



FIRST FLOOR NORTH LIFE SAFETY PLAN

SCALE: 1/8" = 1'-0"

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KEY PLAN

NO.	REVISION	DATE

PROJECT

HENNESSEY ELEMENTARY SCHOOL FIRE ALARM AND LIFE SAFETY UPGRADES

ADDRESS: 75 FORT STREET, EAST PROVIDENCE, RI 02914

PROJECT NO: 1KCT00085.000

DATE: APRIL 25, 2016

DESIGN: KCT

DRAWN BY: JP

CHECKED BY: KCT

SCALE: 0 4' 8' 16' — 1/8"=1'-0"

TITLE: FIRST FLOOR NORTH LIFE SAFETY PLAN

NUMBER: LS-1.1

SHEET: 10 OF 10