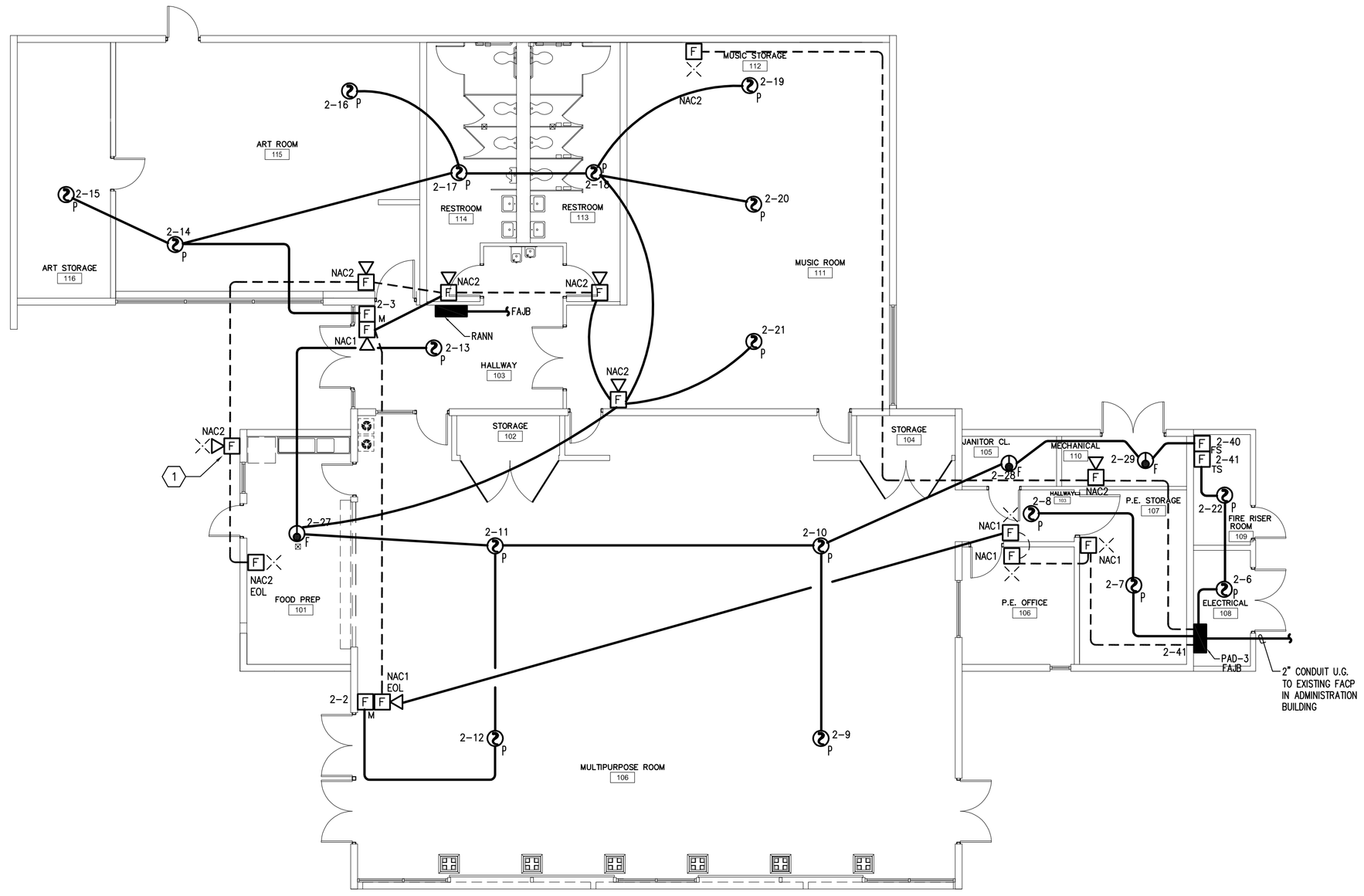
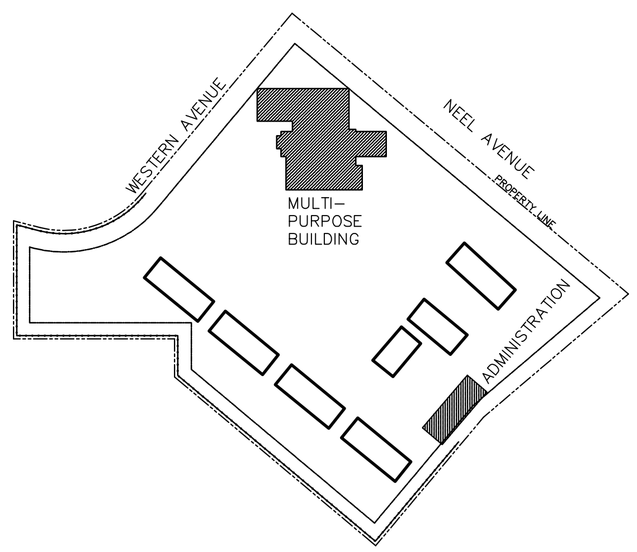


FIRE ALARM PLANS

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



SITE KEY

SCALE: 1" = 100'-0"

FIRE ALARM SYMBOL LEGEND

F M	MANUAL PULL STATION – SIEMENS #HMS-D 4-SQUARE DEEP BOX WITH SINGLE GANG RING MOUNT AT 48" AFF
F	STROBE ONLY UNIT – SIEMENS #ZR-MC-R 4-SQUARE, 2-GANG OR SINGLE GANG BOX – 80" OR 6" BELOW CEILING (WHICHEVER IS LOWER)
F	HORN STROBE UNIT – SIEMENS #ZH-MC-R 4-SQUARE, 2-GANG OR SINGLE GANG BOX – 80" OR 6" BELOW CEILING (WHICHEVER IS LOWER)
F W/P	WEATHERPROOF HORN STROBE UNIT – SIEMENS #AS-HMC-R-WP 4-SQUARE, 2-GANG OR SINGLE GANG BOX – VERIFY LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
S	SMOKE DETECTOR – SIEMENS #HFP-11 4-SQUARE DEEP BOX WITH NO RING, 4/0 BOX, 3/0 BOX, SINGLE GANG, CEILING MOUNT, 30' ON CENTER
R M	ADDRESSABLE INTERFACE MINI-MODULE, SIEMENS #HTRI-M, MOUNT 4-SQUARE BOX WITH FLEX TO HOOD SWITCH FROM FIRE ALARM SYSTEM
D	DUCT MOUNTED SMOKE DETECTOR – SIEMENS #AD2-XHR WITH #HFP-11 DETECTOR MOUNTED IN 4-SQUARE DEEP BOX WITH NO RING, 4/0 BOX, 3/0 BOX, SINGLE GANG, CEILING MOUNT, 30' ON CENTER
FACP	SIEMENS FS-250, ADDRESSABLE FIRE ALARM CONTROL PANEL CURRENT DRAW DEPENDS ON COMPONENTS INSTALLED SEE BATTERY CALCS SHEET SPECIAL BACKBOX PROVIDED BY GWSS INSTALLED BY ELECTRICAL CONTRACTOR
FAAP	SIEMENS FS-RD2, REMOTE ANNUNCIATOR PANEL 6 GANG, 2 1/2" DEEP BACKBOX INSTALLED BY ELECTRICAL CONTRACTOR
PAD3	SIEMENS #PAD3, REMOTE POWER SUPPLY CURRENT DRAW DEPENDS ON COMPONENTS INSTALLED. SEE BATTERY CALCS SHEET SPECIAL BACKBOX PROVIDED BY GWSS, INSTALLED BY ELECTRICAL CONTRACTOR
A	2-CONDUCTOR 18 AWG, SHLD. SOLID, FLPR – ADDRESSABLE LOOP RED = + FEED (POSITIVE) BLACK = – FEED (NEGATIVE)
N*	2-CONDUCTOR 16 AWG, SOLID, FLPR – NOTIFICATION CIRCUIT RED = + FEED (POSITIVE) BLACK = – FEED (NEGATIVE) N* = N + NUMBER, INDICATES NUMBER OF CIRCUITS CARRIED
C	4-CONDUCTOR 18 AWG, SHLD. SOLID, FLPR – ANNUNCIATOR CIRCUIT RED = + POWER (POSITIVE) BLACK = – POWER (NEGATIVE) BROWN = DATA BLUE = DATA
01–05	PROGRAMMING LEGEND "01" DESIGNATES SLC LOOP #1 PROGRAMMING LEGEND "05" DESIGNATES DEVICE #5 PROGRAMMING LEGEND "01–05" DESIGNATES DEVICES #5 ON SLC #1

KEYED NOTES

1. EXTERIOR FIRE ALARM HORN/STROBE
2. EXTERIOR BELL FOR FIRE ALARM DRILL CALL–BACK. THIS BELL SHALL BE OPERATED INDEPENDENTLY OF THE FIRE ALARM SYSTEM AND WILL BE BY MANUAL MEANS ONLY (SWITCH LOCATED IN ADMINISTRATION AREA ADJACENT FIRE ALARM PANEL). THE BELL SHALL HAVE A DIFFERENT SOUND AND TONE FROM THE FIRE ALARM SIGNAL. THE BELL AND ASSOCIATED WIRING SHALL BE LOW–VOLTAGE BY OTHERS.

GENERAL FIRE ALARM NOTES

A. THE NEW FIRE ALARM SYSTEM SHALL CONSIST OF NEW CONDUIT, BOXES AND DEVICES AS REQUIRED. NEW CONDUIT ROUTING SHALL BE DETERMINED BY THE CONTRACTOR AND PER THE EXISTING FIELD CONDITIONS AND AS FOLLOWS:

1. ALL NEW CONDUIT SHALL BE CONCEALED ABOVE CEILINGS AND IN WALLS, WHERE FEASIBLE. VERIFY ROUTING OF NEW CONDUIT WITH EXISTING CONDITIONS.

2. ALL NEW CONDUIT IN UTILITY AREAS, MECHANICAL/ELECTRICAL ROOMS AND STORAGE AREAS SHALL BE PERMITTED TO BE EXPOSED ON WALLS AND CEILINGS, IN A NEAT AND GOOD WORKMANSHIP MANNER.

3. ALL FIRE ALARM WIRING SHALL BE INSTALLED IN WIREMOLD IN PUBLIC AREAS, WHERE IT IS IMPOSSIBLE TO INSTALL CONDUITS CONCEALED (I.E. BLOCK WALLS, CONCRETE CEILINGS, ETC.). WIREMOLD SHALL BE PAINTED TO MATCH THE COLOR OF WALL AND/OR CEILING INSTALLED ON.

4. ALL NEW DEVICES INSTALLED IN WALLS OR CEILINGS SHALL HAVE BOXES RECESSED FLUSH WITH WALL OR CEILINGS. WHERE BOXES CANNOT BE MOUNTED FLUSH IN WALLS OR CEILINGS, SURFACE MOUNTED BOXES SHALL BE FS TYPE OR APPROVED EQUAL — — MULTI–GANG BOXES WITH KNOCK–OUTS ARE PROHIBITED AND WILL NOT BE ACCEPTED UNDER ANY CONDITION. COORDINATE WITH GREAT WESTERN SPECIALTY COMPANY FOR BOX TYPES AND LOCATIONS.

5. CONDUIT ON THE ROOF WILL BE EXCEPTED ONLY UNDER THE CONDITION THAT THE CONDUIT BE RIGID GALVANIZED STEEL (RSG) WITH APPROVED U.L. COUPLINGS AND CONNECTORS AS MANDATED BY THE STATE OF NEW MEXICO CONSTRUCTION INDUSTRIES DIVISION (NM CID). ALL FIRE ALARM CONDUIT SHALL BE ROUTED INTERIOR TO THE BUILDING WHERE POSSIBLE.

B. NEW DUCT SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR DUCT WORK PER THE RECOMMENDATIONS OF THE MANUFACTURER. PROVIDE AIR SAMPLING TUBES, MOUNTING HARDWARE, AND ALL ACCESSORIES FOR A COMPLETE AND OPERATIONAL INSTALLATION. THE CONTRACTOR SHALL PROVIDE INTERLOCK WIRING FROM THE DUCT SMOKE DETECTOR TO THE RESPECTIVE ROOF–TOP HVAC HEATING/VENTILATING UNIT TO SHUT–DOWN THE UNIT IN THE EVENT OF DETECTION OF PRODUCTS OF COMBUSTION IN THE RETURN AIR DUCT. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL EQUIPMENT, INTERLOCK AND CONTROL WIRING, AND FIRE ALARM WIRING FOR A COMPLETE AND OPERATIONAL INSTALLATION.

C. ALL FIRE ALARM WIRING SHALL BE TERMINATED PER THE MANUFACTURERS RECOMMENDATIONS AND REQUIREMENTS. WIRE NUTS FOR TERMINATION OR SPLICING OF THE FIRE ALARM WIRING WILL NOT BE ALLOWED UNDER ANY CONDITION.

D. INSTALLATION OF THE COMPLETE FIRE ALARM SYSTEM INCLUDING DEVICES AND WIRING SHALL MEET ADA, NFPA, FIRE CODES, AND ALL STATE AND LOCAL CODES.

E. THE FIRE ALARM SYSTEM SHALL BE PROGRAMMED PRIOR TO SUBSTANTIAL COMPLETION AND FIRE ALARM DEVICES SHALL BE GIVEN AN ADDRESS AND LOCATION PER THE INSTRUCTIONS OF THE OWNER.

F. ALL STROBES LOCATED WITHIN A 50'–0" RADIUS OF EACH OTHER SHALL BE SYNCHRONIZED TO FLASH SIMULTANEOUSLY.

G. THE REMOTE POWER SUPPLIES FOR HORN/STROBE MODULES AND POWER AMPLIFIERS FOR EMERGENCY VOICE EVACUATION SYSTEMS SHALL BE CONNECTED TO DEDICATED AND SEPARATE 20 AMPERE BRANCH CIRCUITS. THIS CIRCUIT SHALL BE LABELED AT THE BRANCH CIRCUIT PANELBOARD AS "FIRE ALARM CIRCUIT CONTROL" AND SHALL BE PAINTED RED AND SHALL BE PROVIDED WITH A LOCK.

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ENGINEER:

Cottonwood Valley Charter School

Cottonwood Valley Fire Alarm Plans

700 Franklin Street
Socorro, New Mexico 87801

PERMIT NO.:	DATE: September 2010
PROJECT AREA:	CHECKED BY: GWSS/ENG3

FIRE ALARM PLANS

DRAWING NO.:

FA101

AS–BUILT RECORD DOCUMENTS – JUNE 2011

N.I.C.E.T. CERTIFICATION

Name: William D. Cavasos
Sub–Field: Fire Alarm Systems
NICET Level: III
Certificate #: 99835
Expiration: 3/01/12
Address: 8410A Washington NE
Albuquerque, NM 87113

Signature Date