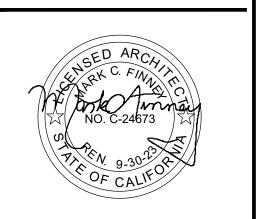
MORRILL MIDDLE SCHOOL FIRE ALARM SYSTEM UPGRADE

1970 MORRILL AVENUE, SAN JOSE, CALIFORNIA 95132

BERRYESSA UNION SCHOOL DISTRICT

DSA FILE NUMBER 43-7 DSA APPLICATION NUMBER 01-119856 **OPSC TRACKING NUMBER 69377**

(DSA STAMP AREA)



GENERAL NOTES

CONTRACTOR SHALL VISIT THE PROJECT AREA IN ORDER TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND THE REQUIREMENTS OF THE PROJECT. THE CONTRACTOR MAY CONTACT THE ARCHITECT DURING THE BIDDING PHASE

PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL

REPLACEMENT, INCLUDING ARCHITECT'S FEES, FOR ANY DAMAGE CAUSED TO STRUCTURES, LANDSCAPE, SITE WORK, OR EXISTING SYSTEMS TO REMAIN, AS

THE ARCHITECT IMMEDIATELY. NO MODIFICATIONS SHALL BE MADE BY THE

JOB SITE ACCESS, PARKING, AND LOCATION OF CONTRACTOR'S EQUIPMENT AND MATERIAL STORAGE AREA. SEE SITE PLAN FOR ADDITIONAL NOTES.

ALL REQUIRED UTILITY SHUT DOWNS SHALL HAVE PRIOR APPROVAL FROM THE

ADVANCE NOTICE PER PROJECT REQUIREMENTS

OWNER'S REPRESENTATIVE. REQUEST SHALL BE SUBMITTED WITH ADEQUATE

THE OWNER/OPERATOR AND CONTRACTOR SHALL BE AWARE THAT BUILDINGS

CONSTRUCTED PRIOR TO 1978 (OR THERE ABOUT) POSSIBILITY CONTAIN ASBESTOS IN SOME EXISTING CONSTRUCTION MATERIALS. AND WILL LIKELY B ENCOUNTERED DURING ALTERATIONS OR REMODELING. UNDER CALIFORNIA TITLE 8, THE OWNER AND CONTRACTOR BOTH HAVE

RESPONSIBILITIES TO DETERMINE THE EXISTENCE OF ASBESTOS CONTAINING MATERIALS IN AREAS TO BE ALTERED OR REMODELED PRIOR TO COMMENCEMENT OF WORK AND TO TAKE APPROPRIATE MEASURES TO PROTECT PERSONNEL. CAL-OSHA HAS JURISDICTION OVER ASBESTOS RELATED WORK. ASBESTOS RELATED WORK SHALL BE DONE IN ACCORDANCE WITH CALIFORNIA GENERAL INDUSTRIAL SAFETY ORDERS, TITLE 8, SECTION 341.6 THROUGH 341.14. ASBESTOS IN THE WORK ENVIRONMENT IS REGULATED BY TITLE 8, SECTION 5208.

THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AND DISTRICT REGULATION 11-2-401.3 REQUIRES EVERY RENOVATION INVOLVING THE REMOVAL OF 100 SQ.FT., LN.FT, OR GREATER OF REGULATED ASBESTOS CONTAINING MATERIAL AND FOR EVERY DEMOLITION (EVEN WHEN NO ASBESTOS IS PRESENT), A NOTIFICATION MUST BE SENT TO THE BAAQMD AT LEAST 10 WORKING DAYS PRIOR TO COMMENCEMENT OF DEMOLITION / RENOVATION.

ALL BUILDING MATERIALS MUST BE ASBESTOS FREE.

THESE DOCUMENTS DO NOT ADDRESS CONTAINMENT FOR EXISTING AREAS OF ASBESTOS WHICH MAY BE DISCOVERED DURING CONSTRUCTION. THE OWNER'S ABATEMENT SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR THE DETECTION, REMOVAL, AND THE DISPOSAL OF ANY EXISTING ASBESTOS MATERIAL. ARCHITECTURAL AND ENGINEERING FEES FOR ADDITIONAL DESIGN EFFORT TO OBTAIN STATE APPROVALS, AS WELL AS THE COST OF ANY REPAIRS, FOR DAMAGE CAUSED OR REPLACEMENT OF EXISTING SYSTEMS TO REMAIN DUE TO WORK PERFORMED BY THE ASBESTOS ABATEMENT SUBCONTRACTOR, SHALL BE THE RESPONSIBILITY OF SAID SUBCONTRACTOR.

CONSTRUCTION SCHEDULING

CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING AND START OF THE WORK. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL EXISTING SPACES AND SYSTEMS WHICH ARE IN USE, ADJOINING THE PROJECT, AND NOT PART OF THE PROJECT.

INTERIOR FINISHES

INTERIOR FINISHES AND ALL WALL COVERING MATERIAL SHALL CONFORM TO CCR TITLE 24, PART 2, CHAPTER 8.

TITLE 24 COMPLIANCE

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (2019 CBC). SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK, SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE

PROCEEDING WITH THE WORK.

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT, AND APPROVED BY DSA. AS PER SECTION 4-338 - A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK, - A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE

ADMINISTRATIVE REQUIREMENTS FROM PART 1., TITLE 24, C.C.R.

PROJECT. - SPECIAL INSPECTION PER SECTION 4-333 (C)

DISTRICT SHALL CONDUCT ALL REQUIRED TEST AND INSPECTIONS FOR THE

- CONTRACTOR SHALL SUBMIT VERIFIED REPORT OR SECTION 4-336 & 4-343 - ADMINISTRATION OR CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER PER SECTION 4-333 (A) AND 4-341

- VERIFIED REPORTS PER SECTION 4-343 AND 4-336 A COPY OF PARTS 1 TO 5 OF TITLE 24 SHALL BE KEPT AND AVAILABLE IN THE FIELD DURING CONSTRUCTION DSA SHALL BE NOTIFIED AT START OF CONSTRUCTION AND PRIOR TO PLACEMENT OF CONCRETE PER SECTION 4-331 - SUPERVISION BY DSA PER SECTION 4-334

- DUTIES OF CONTRACTOR PER SECTION 4-343

- DSA IS NOT SUBJECT TO ARBITRATION

FIRE SAFETY DURING CONSTRUCTION & DEMOLITION WILL BE ENFORCED IN ACCORDANCE WITH CBC & CFC CHAPTER 33.

GENERAL NOTES, cont.

ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA NO CHANGES OR REVISIONS SHALL BE MADE FOLLOWING WRITTEN APPROVAL WHICH CONSTRUCTION CHANGE DOCUMENT OR ADDENDA. AND SHALL BE APPROVED BY

STRUCTURAL ENGINEER (WHEN APPLICABLE DELEGATED PROFESSIONAL ENGINEER

PER CBC 11B-104.1 "ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY TOLERANCES EXCEPT WHERE THE REQUIREMENT IS STATED AS A RANGE WITH SPECIFIC MINIMUM AND MAXIMUM END POINTS.



	REVIATIONS		
(REFER TO	CONSULTANT DRAWINGS FOR	ADDITIONA	L ABBREVIATIONS)
A.F.F.	ABOVE FINISHED FLOOR	LAM.	LAMINATE
A.P.	ACCESS PANEL	LAV.	LAVATORY
ACT ADJ.	ACOUSTIC TILE ADJUSTABLE	M.B.	MACHINE BOLT
ADJ. ALUM.	ALUMINUM	M.S.	MACHINE SCREW
A.B.	ANCHOR BOLT	M.H.	MANUEACTURER
APPROX.	APPROXIMATELY	MFG. M.B.	MANUFACTURER MARKER BOARD
ARCH.	ARCHITECT	MATL.	MATERIAL
AC	ASPHALTIC CONCRETE	MAX.	MAXIMUM
@ B.M.	AT BENCH MARK	MECH.	MECHANICAL
BLKG.	BLOCKING	MTL.	METAL
BD.	BOARD	MIN.	MINIMUM
B.W.	BOTH WAYS	MISC. MTD.	MISCELLANEOUS MOUNTED
BOT.	BOTTOM	(N)	NEW
BLDG. B.U.R.	BUILDING BUILT-UP ROOFING	NOM.	NOMINAL
C.B.	CATCH BASIN	N.I.C.	NOT IN CONTRACT
CLG.	CEILING	N.T.S.	NOT TO SCALE
CEM.	CEMENT	NO. or #	NUMBER
C.C or O.C.	CENTER TO CENTER	OCC.	OCCUPANT(CY)
0ED THE	CENTERLINE	O.C.	ON CENTER
CER. TILE C.O.	CERAMIC TILE CLEANOUT	OPNG.	OPENING
C.O.T.G.	CLEANOUT TO GRADE	OPP.	OPPOSITE HAND
CLR.	CLEAR	O.H. O.F.O.S.	OPPOSITE HAND OUTSIDE FACE OF STUD
C.A.H.R.	CLEAR ALL HEART	O.F.O.S. O.H.W.S.	OVAL HEAD WOOD SCREW
	REDWOOD	O.H.W.S. O.D.	OVERFLOW DRAIN and/or
C.W.	COLD WATER		OUTSIDE DIAMETER
COL.	COLUMN	O.F.C.I.	OWNER FURNISHED and
COM. CONC.	COMMON CONCRETE	D D	CONTRACTOR INSTALLED
CONC.	CONSTRUCTION	PR. PART.	PAIR
C.H.	CONSTRUCTION HEART	PART. PL	PARTITION PLATE
C.J.	CONSTRUCTION JOINT	d	PENNY (NAILS)
CONT.	CONTINUOUS	PLAS.	PLASTER
CONTR.	CONTRACTOR	PLYWD.	PLYWOOD
CTR.	COUNTER	P.V.C.	POLY VINYL CHLORIDE
CTSK. DET.	COUNTER SUNK DETAIL	P.T.	PRESSURE TREATED
DIA. or Ø	DIAMETER	P.L. R. or RAD.	PROPERTY LINE
DIM.	DIMENSION	R.W.L.	RAIN WATER LEADER
D.A.	DISABLED ACCESS		REDWOOD
DR.	DOOR	REINF.	REINFORCING
D.S.	DOWNSPOUT	REQ'D	REQUIRED
DWG.	DRAWING	R.A.G.	RETURN AIR GRILLE
D.F.	DRINKING FOUNTAIN	R.E.	RIM ELEVATION
EA.	and/or DOUGLAS FIR EACH	R.D.	ROOF DRAIN
E.W.	EACH WAY	RM. R.O.	ROOM ROUGH OPENING
ELEC.	ELECTRIC or ELECTRICAL	RND.	ROUND
EL. or			ROUND HEAD METAL SCREW
ELEV.	ELEVATION	R.H.W.S.	ROUND HEAD WOOD SCREW
ENCL.	ENCLOSE and/or ENCLOSURE	SSD.	SEE STRUCTURAL DRAWINGS
EQ. EQUIP.	EQUAL EQUIPMENT	S.T.S.M.S.	SELF TAPPING SHEET
(E)	EXISTING	OLIEATLI	METAL SCREW
EX.	EXPANSION	SHEATH. S.M.	SHEATHING SHEET METAL
E.J.	EXPANSION JOINT	S.M.S.	SHEET METAL SCREW
EXP.	EXPOSED	S.O.V.	SHUT OFF VALVE
EXT.	EXTERIOR	SIM.	SIMILAR
F.O.C.	FACE OF MASONEY	S.C.	SOLID CORE
F.O.M. F.O.S.	FACE OF MASONRY FACE OF STUD	SPEC.	SPECIFICATION
F.O.F.	FACE OF FINISH	SQ.	SQUARE
FIN.	FINISH	S.F.	SQUARE FEET STAGGERED
F.F.	FINISHED FLOOR	STAG. STD.	STANDARD
F.S.	FINISH SLAB	S.S.	STAINLESS STEEL
F.E.	FIRE EXTINGUISHER	STL.	STEEL
	FIRE EXTINGUISHER CABINET	OTOIN.	STORAGE
	FIRE HYDRANT	STRUCT.	STRUCTURAL
	FLAT HEAD METAL SCREW FLAT HEAD WOOD SCREW	S.A.G.	SUPPLY AIR GRILLE
F.n.w.S. FL. or FLR.		THRES. T&G	THRESHOLD TONGUE & GROOVE
F.D.	FLOOR DRAIN	T.J.	TOOLED JOINT
FTG.	FOOTING	T.O.B.	TOP OF BEAM
FND.	FOUNDATION	T.O.C.	TOP OF CURB or CONCRETE
GALV.	GALVANIZED	T.O.S.	TOP OF STEEL or SHEATHING
G.I.	GALVANIZED IRON	T.O.W.	TOP OF WALK
GA. GL.	GAUGE GLASS	TYP. U.O.N.	TYPICAL
GL. GLU-LAM	GLUE-LAMINATED	U.O.N. U.O.S.	UNLESS OTHERWISE NOTED UNLESS OTHERWISE SHOWN
GRD	GRADE	U.U.S. V T R	VENT THROUGH ROOF

V.T.R.

V.C.T.

V.W.C.

V.O.I.P.

W/O

GYP. BD. GYPSUM BOARD

HORIZ.

HEIGHT

HARDWARE

HOLLOW CORE

HORIZONTAL

HOSE BIBB

INSULATION

JOIST HANGER

KILN DRIED

INTERIOR

INVFRT

HOLLOW METAL

INSIDE DIAMETER

VENT THROUGH ROOF

VINYL COMPOSITION TILE

VOICE OVER INTERNET PROTOCOL

VINYL WALL COVERING

VERTICAL

VERTICAL GRAIN VERIFY IN FIELD

WATER CLOSET

WATER HEATER

WATER RESISTANT

WELDED WIRE MESH WINDOW DIMENSION

WATERPROOF

WITH

WITHOUT WOOD

BUILDING CODES AND STANDARDS:

2019 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R. 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R. (2018 INTERNATIONAL BUILDING CODE, VOLUMES 1 AND 2, WITH 2019 2019 CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24, C.C.R.

2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R. (2018 UNIFORM MECHANICAL CODE WITH 2019 CALIFORNIA 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R. (2018 UNIFORM PLUMBING CODE WITH 2019 CALIFORNIA AMENDMENTS). CALIFORNIA ENERGY CODE (CENC), PART 6, TITLE 24, C.C.R.

(2018 NATIONAL ELECTRIC CODE WITH 2019 CALIFORNIA AMENDMENTS).

CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R. (2018 INTERNATIONAL FIRE CODE WITH 2019 CALIFORNIA AMENDMENTS). CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24,

2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24, C.C.R. 2016 ASME A17.1 (W/A17.1a/CSA B44a-08 ADDENDA) SAFETY CODE FOR ELEVATORS AND ESCALATORS 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

(28 CFR PART 35 FOR TITLE II ENTITIES) CCR TITLE-19, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

	, ,		_
NFPA 13	INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)		2016 EDITION
NFPA 14	INSTALLATION OF STANDPIPE & HOSE SYS (CA AMENDED)	TEMS	2016 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS		2017 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEM		2017 EDITION
NFPA 20	STATIONARY FIRE PUMPS TO FIRE PROTEC	CTION	2016 EDITION
NFPA 22	WATER TANKS FOR PRIVATE FIRE PROTEC	TION	2013 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS		2016 EDITION
	(CA AMENDED).		
NFPA 25	INSPECTION, TESTING AND MAINTENANCE	OF	2013
	WATER BASED FIRE PROTECTION SYSTEMS	S	CALIFORNIA
			EDITION
NFPA 72	NATIONAL FIRE ALARM CODE		2016 EDITION
	(CA AMENDED)		
NFPA 80	FIRE DOORS AND OTHER OPENING PROTEC		2016 EDITION
NFPA 92	STANDARD FOR SMOKE CONTROL SYSTEM		2015 EDITION
NFPA 110	EMERGENCY AND STANDBY POWER SYSTE		2016 EDITION
NFPA 170	STANDARD FOR FIRE SAFETY AND EMERGE	ENCY	2018 EDITION
	SYMBOLS		
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVER	ING	2015 EDITION
	SYSTEMS		
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTE	MS	2015 EDITION
00.000	OTANDADDO FOD DI FACUEDO FOI DINO AN	ID.	0047 EDITION
CC 300	STANDARDS FOR BLEACHERS, FOLDING AN		2017 EDITION
	TELESCOPIC SEATING, AND GRANDSTANDS	>	
SFM 12-10-	1 POWER OPERATED EXIT DOORS		
) IVI Z- U-	T FOWER OFERATED EATL DOORS		

SFM 12-10-1 POWER OPERATED EXIT DOORS SFM 12-10-2 SINGLE POINT LATCHING OR LOCKING DEVICES SFM 12-10-3 EMERGENCY EXIT & PANIC HARDWARE

MANUAL OPERATING SIGNAL BOXES

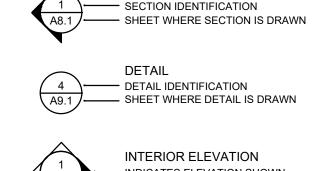
SIGNALING SYSTEMS

SMOKE DETECTORS FOR FIRE PROTECTIVE

UL 268A	SMOKE DETECTORS DUCT APPLICATIONS	1998/2003 EDITION
UL 300	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS	2005 (R2010)
	FOR PROTECTION OF COMMERCIAL COOKING	
	EQUIPMENT	
UL 305	PANIC HARDWARE	2012 EDITION
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM	
	AND SIGNALING SYSTEMS, AND ACCESSORIES	2003 EDITION
UL 521	HEAT DETECTORS FOR FIRE PROTECTIVE	1999 EDITION
	SIGNALING SYSTEMS	
UL 864	CONTROL UNITS FOR FIRE PROTECTIVE	2003 EDITION
	SIGNALING SYSTEMS	
	(W/ REVISIONS THROUGH DEC. 2014)	
UL 1971	SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 EDITION
COMPLIAN	CE WITH CFC CHAPTER 33, FIRE SAFETY DURING CC	NSTRUCTION

AND DEMOLITION AND CBC CHAPTER 33, SAFETY DURING CONSTRUCTION WILL

SYMBOLS LEGEND

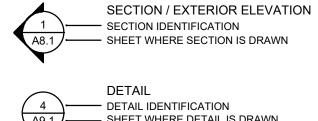


ROOM IDENTIFICATION CLASSROOM— ROOM NAME

SPECIFIC NOTE DOOR DESIGNATION

WINDOW DESIGNATION

CENTER OF



 INDICATES ELEVATION SHOWN — SHEET WHERE ELEVATION IS DRAWN

102 ____ ROOM NUMBER

ADDENDUM REVISION

(127) — FINISH NUMBER

EQUIPMENT LETTER SEE EQUIPMENT SCHEDULE

WALL TYPE

1999/2005 EDITION

2009 EDITION

CLOUD AROUND REVISION

SEE SPECS AND I.E. DWGS.

CEILING HEIGHT

PROJECT SUMMARY

CAMPUS WIDE FIRE ALARM REPLACMENT

THERE ARE NO DEFERRED SUBMITTALS FOR THIS PROJECT.

DESIGN TEAM

SUGIMURA FINNEY ARCHITECTS 2155 SOUTH BASCOM AVENUE SUITE 200 CAMPBELL, CALIFORNIA 95008 (408) 879-0600 (408) 377-6066 FAX

ATTN: MIKE BOWERS MIKE@SUGIMURA.COM ELECTRICAL AND FIRE ALARM ENGINEER

AURUM CONSULTING ENGINEERS 1798 TECHNOLOGY DRIVE, SUITE 242 SAN JOSE, CA 95110

ATTN: NAJIB ANWARY NAJIB@ACEMB.COM

(408) 564-7925

DRAWING INDEX

T3 SITE PLAN - FIRE LIFE SAFETY ARCHITECTURAL A0.3 TYPICAL SITE DETAILS

A3.1 REFLECTED CEILING PLANS

A3.2 REFLECTED CEILING PLANS

A3.3 REFLECTED CEILING PLANS

ELECTRICAL

E0.1 SYMBOLS, ABBREVIATIONS, LIGHT FIXTURE SCHEDULE, CODES, STANDARDS, NOTES & SHEET INDEX E1.1 ELECTRICAL DETAILS

E2.1 ELECTRICAL SITE PLAN E3.1 ELECTRICAL DEMOLITION PLAN - THE ACADEMIC CENTER AREA A & 2ND FLOOR E3.2 ELECTRICAL DEMOLITION PLAN - THE ACADEMIC CENTER

E3.3 ELECTRICAL DEMOLITION PLAN - THE BARN E3.4 ELECTRICAL DEMOLITION PLAN - THE UNION & RELOCATABLE CLASSROOMS E4.1 SYSTEMS PLAN - THE ACADEMIC CENTER AREA A & 2ND

E4.2 SYSTEMS PLAN - THE ACADEMIC CENTER AREA B E4.3 SYSTEMS PLAN - THE BARN E4.4 SYSTEMS PLAN - THE UNION & RELOCATABLE CLASSROOMS

FA0.1 FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX, DETAILS & NOTES FA1.1 FIRE ALARM RISER DIAGRAM FA1.2 BATTERY & VOLTAGE DROP CALCULATIONS FA1.3 FIRE ALARM RISER DIAGRAM, EQUIPMENT LIST, DETAILS.

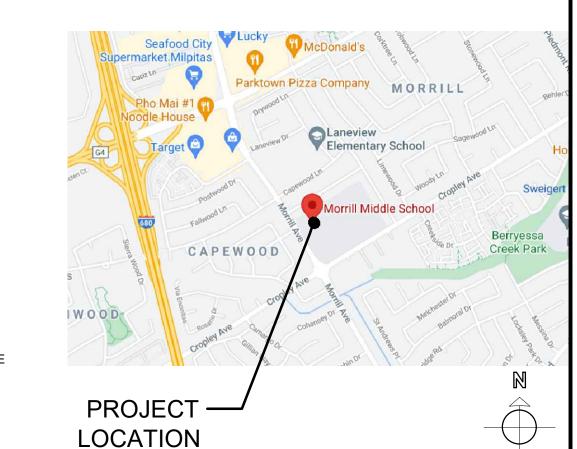
BATTERY & VOLTAGE DROP CALCULATION - CO NOTIFICATION FA3.1 FIRE ALARM PLAN - THE ACADEMIC CENTER AREA A & 2ND

FA3.2 FIRE ALARM PLAN - THE ACADEMIC CENTER AREA B FA3.3 FIRE ALARM PLAN - THE BARN FA3.4 FIRE ALARM PLAN - THE UNION & RELOCATABLE CLASSROOMS

FA4.1 CO NOTIFICATION PLAN - THE ACADEMIC CENTER AREA A FA4.2 CO NOTIFICATION PLAN - THE ACADEMIC CENTER AREA B FA4.3 CO NOTIFICATION PLAN - THE BARN FA4.4 CO NOTIFICATION PLAN - THE UNION & RELOCATABLE CLASSROOMS

SHEET TOTAL = 29

VICINITY MAP



STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS / ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND / OR OTHER CONSULTANTS APPLICATION NO.: 01-119856 ☑ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND / OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS

THIS DRAWING, PAGE OF SPECIFICATIONS / CALCULATIONS

OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND 2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS

SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336,

4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317(B)) ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

☐ THIS DRAWING OR PAGE X HAS / HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

11/08/2021 9/30/2023 EXPIRATION DATE LICENSE NUMBER

CHECKED BY SFA JOB NO:

03/07/2022

	BUILDING CODE ANALYSIS									
BUILDING	CONSTRUCTION TYPE OCCUPANCY TYPE	AREA (SQ.FT.)	ALLOWABLE (SQ.FT.)	# OF STORIES						
ACADEMIC BUILDING	III-1HR / E, A-3, & B	41,110	43,500	1						
THE BARN	V-B / E	13,020	9,500 + (9,500X.75) = 16,625	1						
THE UNION	V-B / E	12,820	9,500 + (9,000X.75) = 16,625	1						
RELO 1	V-B / E	1,440	9,500	1						
PV CANOPIES	II-A / U	14,440	19,000	1						
YOUTH CENTER	II-A / A2	20,275	62,000	1						

PV CANOPIES

DSA# 01-115800

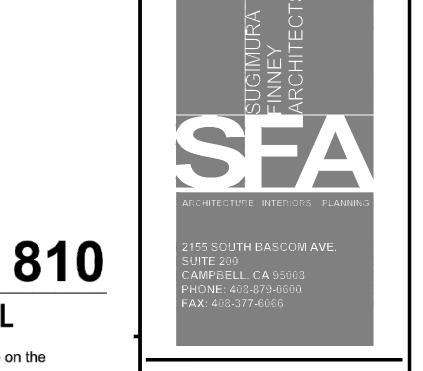
I = [F/P - 0.25] W/30 PER CBC 506.3.3 EQUATION 5-5	
I = [1 - 0.25] 30/30 I = .75 AREA INCREASE	

SITE PLAN - FIRE LIFE SAFETY NOTES

EXISTING FIRE HYDRANT.

PROJECT SUMMARY

CAMPUS WIDE FIRE ALARM REPLACEMENT.



(DSA STAMP AREA)

MDSA

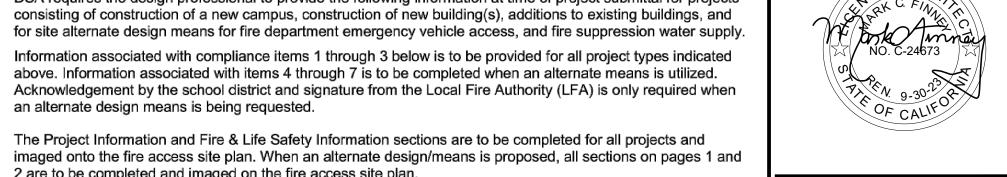
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply. Information associated with compliance items 1 through 3 below is to be provided for all project types indicated

above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested. The Project Information and Fire & Life Safety Information sections are to be completed for all projects and

For additional information refer to the instructions at the end of this form and DSA Policy PL 09-01: Fire Flow for Buildings.



PROJECT INFORMATION

School District/Owner: Berryessa Union School District Project Name/School: Morrill Middle School Fire Alarm Upgrade

2 are to be completed and imaged on the fire access site plan.

Project Address: 1970 Morrill Avenue, San Jose, CA 95132

1.	Has a fire hydrant flow test been performed within the past 12 months?	Yes □		No 🗹
	(If yes, provide a copy of the test data.)			
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes □		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)	Yes □		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate □	High □	Very High □
	Wildland Interface Area (WIFA) (If any designations are checked, project	design must m	eet the	WIFA □

DGS DSA 810 (revised 01/30/20) DIVISION OF THE STATE ARCHITECT

requirements of CBC Chapter 7A.)

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

DEPARTMENT OF GENERAL SERVICES

STATE OF CALIFORNIA

CONDITION MEANS AND METHODS RESOLUTION ALTERNATE ACCEPTED Emergency vehicle access roadways do not meet CFC requirements. Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property. 5. Fire Hydrants: Number and spacing does not meet CFC requirements. Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and Fire Hydrants: Water flow and pressure are less than CFC minimum. Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property. Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements. Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	•

DGS DSA 810 (revised 01/30/20) DIVISION OF THE STATE ARCHITECT

— — — — ROOF OVERHANG

—×—×—×— CHAIN LINK FENCE

EXISTING PROPERTY LINE

EXISTING BUILDING

EXISTING BUILDING (NOT IN SCOPE OF WORK)

(AREA OF WORK)

GRAPHIC KEY

DEPARTMENT OF GENERAL SERVICES

FIRE DEPARTMENT ACCESS. FIRE DEPARTMENT ACCESS IS 20'-0" WIDE AND RATED FOR 96,000 LBS. (E) FIRE HYDRANT

STATE OF CALIFORNIA

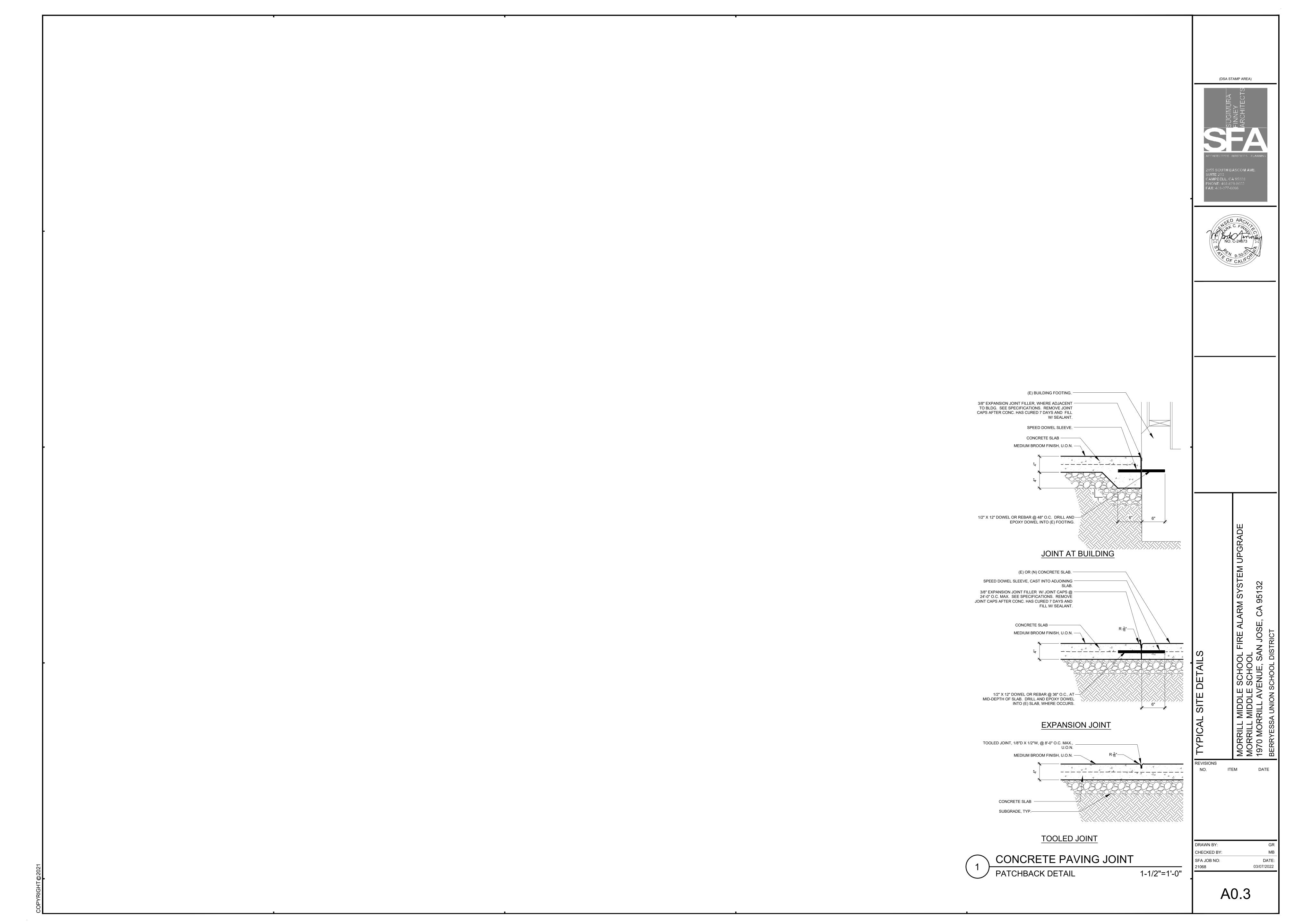
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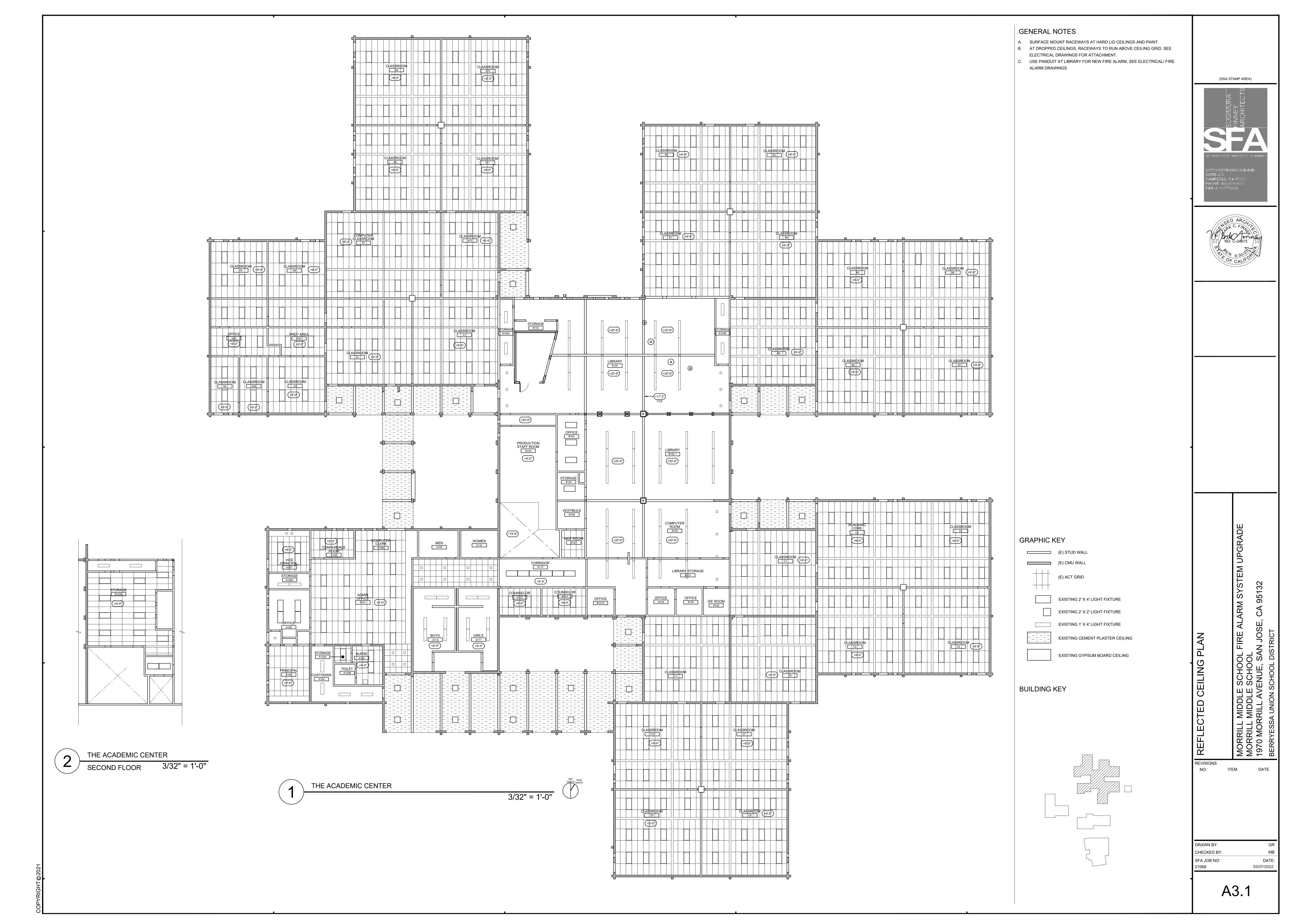
(E) AC PAVING DSA# 26971 (E) LANDSCAPE RELO 1 DSA# 01-104851 (E) AC PAVING (E) AC PAVING _____ THE BARN THE UNION × × × × × × ¬ DSA# 26971, 01-102632, 01-104037 (E) CONC. (E) LAND. (E) FIELD ____×___×___×__ (E) LAND. (E) LAND. BERRYESSA YOUTH CENTER! (E) LAND. (E) AC PAVING (E) LANDSCAPE (E) LAND. SITE PLAN - FIRE LIFE SAFETY

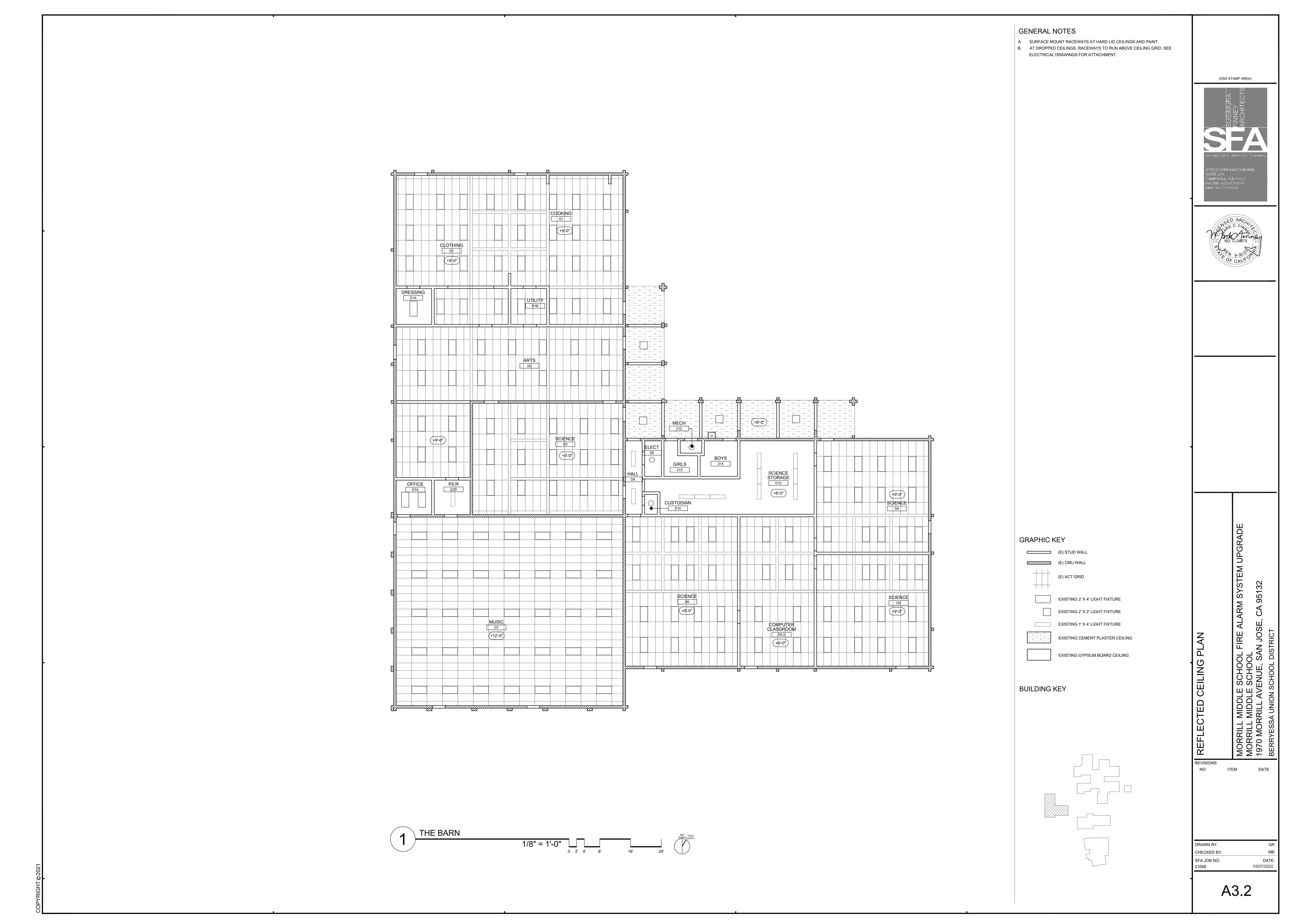
(E) LANDSCAPE

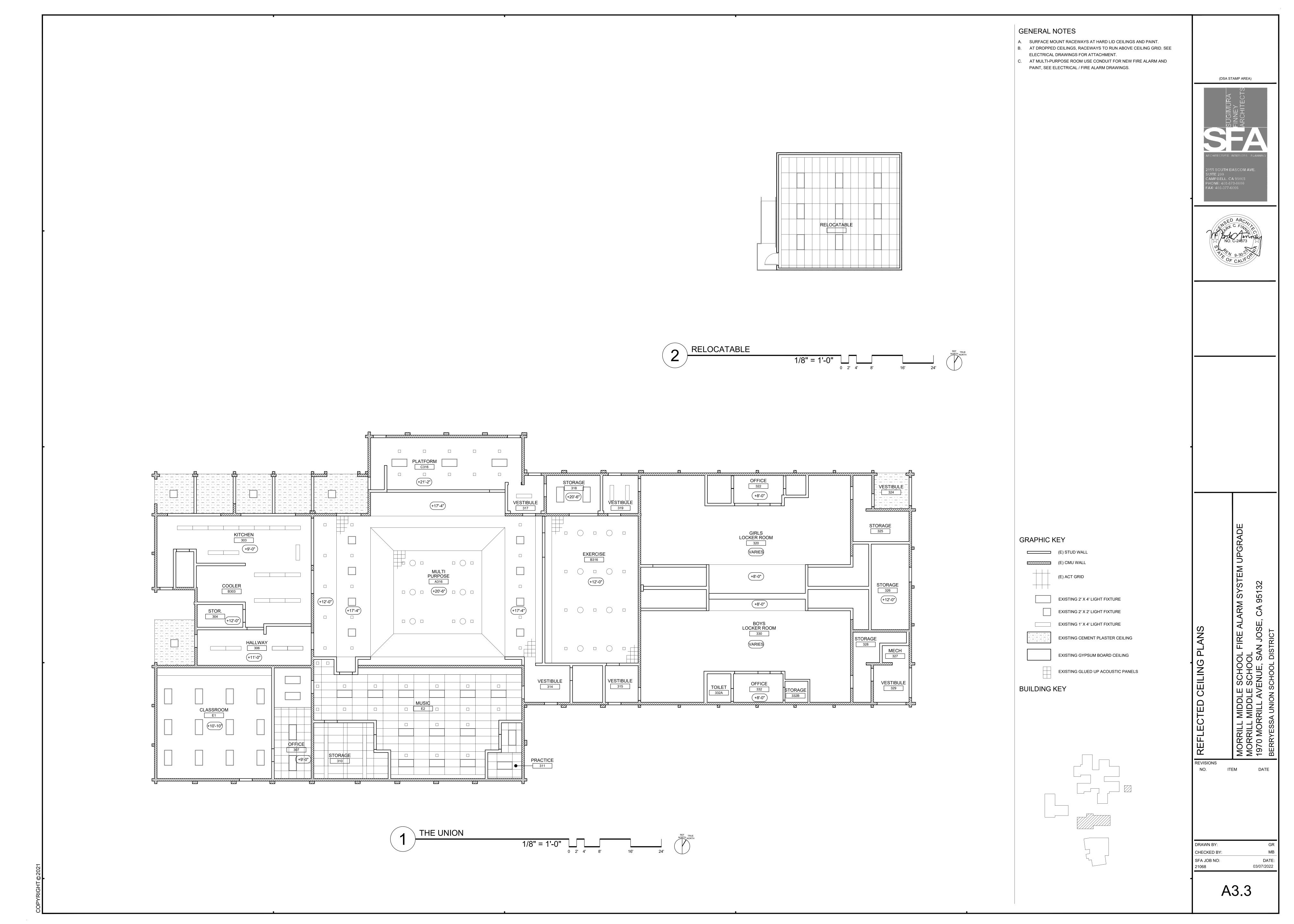
(E) LANDSCAPE

(E) LAND.

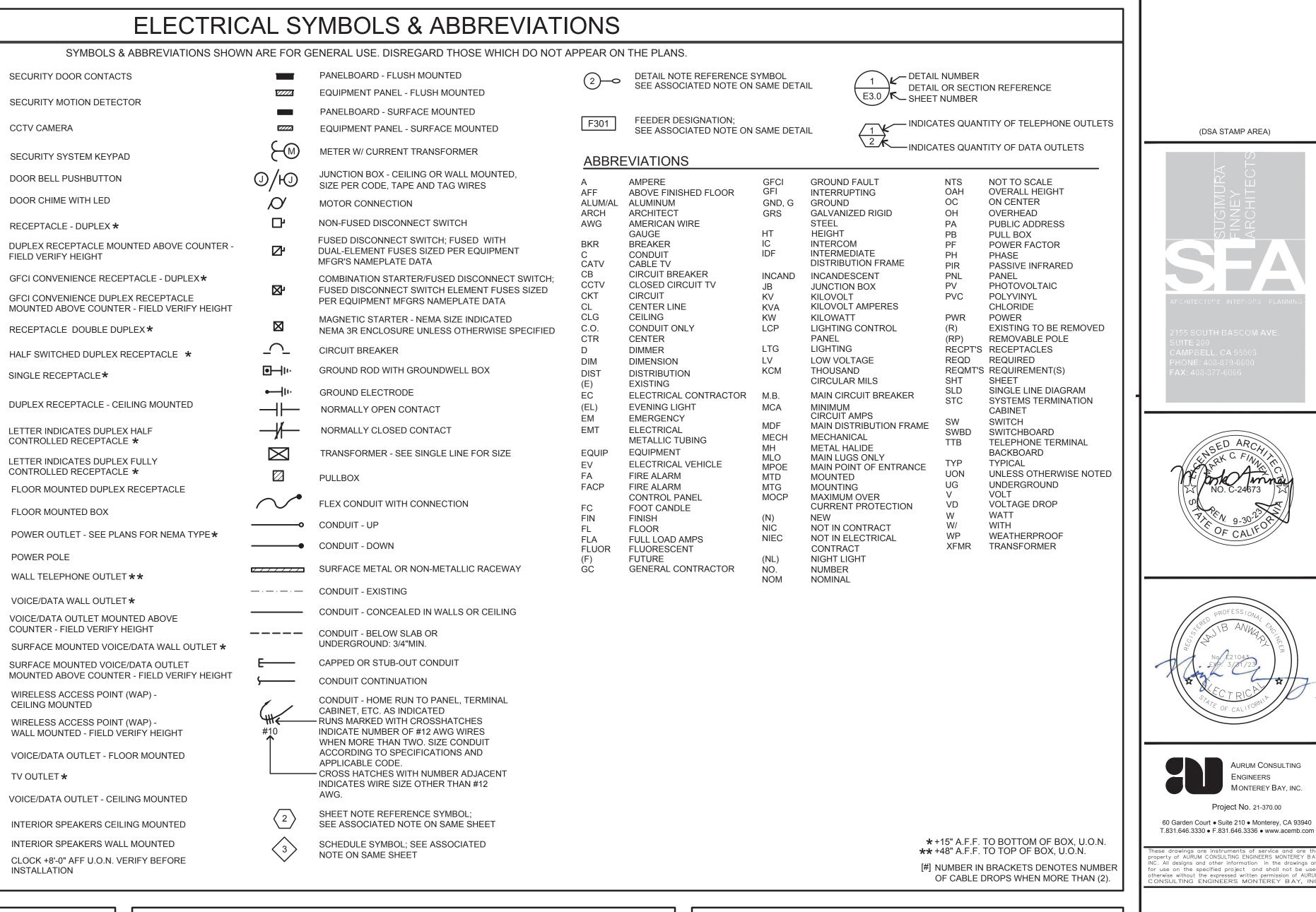








GENERAL CONSTRUCTION NOTES CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION. FLUORESCENT OR LED LUMINAIRE THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY EMERGENCY OR NIGHT LIGHT CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. STRIP FLUORESCENT OR LED LUMINAIRE THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL SEE SCHEDULE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER LUMINAIRE - RECESSED - SEE SCHEDULE TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT. RECESSED WALL WASHER CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL, PROPERTY DAMAGE, TO FULLY LUMINAIRE - SURFACE MOUNTED -PROTECT THE DISTRICT, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS SEE SCHEDULE LUMINAIRE - POLE OR POST MOUNTED -SEE SCHEDULE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT. LUMINAIRE - WALL MOUNTED SEE SCHEDULE 6. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO BOLLARD OR PATH LIGHT - SEE SCHEDULE PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION. EXIT LIGHT - DIRECTIONAL ARROWS AS CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE INDICATED - SEE SCHEDULE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES. TRACK LIGHTING - SEE SCHEDULE CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING **EMERGENCY LIGHT** AT START OF WORK. DIGITAL DUAL TECHNOLOGY CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTS PAINTING SECTION FOR REQUIREMENTS. LIGHTING CONTROL OCCUPANCY SENSOR 10. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN CORNER MOUNTED INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED, CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS. DIMMER ROOM CONTROLLER 11. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE PLUG LOAD CONTROLLER (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE. ROOM LIGHTING CONTROLLER 12. ALL CONDUITS UNLESS OTHERWISE NOTED SHALL BE NON-METALLIC RACEWAY FOR INDOOR LOCATIONS IN LIGHTING CONTROL PANEL OFFICES AND CLASSROOMS, EMT CONDUIT FOR INDOOR LOCATIONS AT GYM, RIGID METAL FOR ABOVE GROUND AT OUTDOOR LOCATIONS AND PVC FOR UNDERGROUND AT OUTDOOR LOCATIONS. DIGITAL DAYLIGHT SENSOR 13. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS SINGLE POLE SWITCH ** NOT ALLOWED. SINGLE POLE SWITCH, ** 14. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID a = CIRCUIT CONTROLLED THREE WAY SWITCH** 15. SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF LIGHTING FIXTURES AND DEVICES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF CEILING TYPES FROM FOUR WAY SWITCH** ARCHITECTURAL DOCUMENTS AND PROVIDE AND INSTALL ALL REQUIRED FIXTURE MOUNTING HARDWARE. PROVIDE AND INSTALL U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED MANUAL MOTOR STARTER CEILINGS. KEY OPERATED SWITCH ** 16. CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING CLOCK, DATA, AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. THE CONTRACTOR SHALL PROVIDE LIGHTING DIMMER ** ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK. DIGITAL ON/OFF SWITCH ** 17. CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE DIGITAL DIMMER SWITCH ** CONSTRUCTION. DIGITAL MULTI SCENE 18. ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE LIGHTING SWITCH ** NECESSARY. WHERE IT IS NECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL DIGITAL DUAL TECHNOLOGY WORK OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO STARTING WORK. WALL OCC. SENSOR ** 19. WHERE IT IS NOT POSSIBLE TO RUN NEW CONCEALED CONDUIT USE NON-METALLIC SURFACE RACEWAY AND WALL OCCUPANCY SENSOR ** BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR DISTRICT'S DOUBLE SWITCHED WALL OCCUPANCY REPRESENTATIVE PRIOR TO ROUGH-IN. 20. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UNDERGROUND SYSTEMS (GAS. DIMMING DUAL TECHNOLOGY WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR WALL SWITCH OCCUPANCY SENSOR ** DAMAGE TO EXISTING UNDERGROUND SYSTEMS AS A RESULT OF NEW WORK. REPAIR TO DAMAGED 2-BUTTON DIMMING DUAL TECHNOLOGY UNDERGROUND SYSTEMS SHALL BE TO THE DISTRICT'S SATISFACTION WITHOUT EXTRA EXPENSE TO THE WALL SWITCH OCCUPANCY SENSOR ** 21. EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS. 22. WHERE NON-METALLIC SHEATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO FULLEST EXTENT PER THE GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT. 23. ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY ARCHITECT BEFORE ROUGH-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURRED SPACE, HOLLOW MULLIONS, ETC. IN EACH AREA AND REVIEW WITH ARCHITECT. IF SYSTEM CAN BE ROUTED CONCEALED EITHER BY FISHING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO, IF INACCESSIBILITY IS DETERMINED, CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS DETERMINED BY THE ARCHITECT. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ARCHITECT WILL BE MADE. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE 24. ALL CONDUIT ROUTING SHOWN ON PLANS IS DIAGRAMMATICAL; CONTRACTOR SHALL FIELD COORDINATE ALL CONDUIT ROUTING. WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED EQUIPMENT AND MATERIAL. EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL M. WHERE TELEPHONE. COMPUTER DATA. FIBER OPTICS. FIRE ALARM OR OTHER COMMUNICATIONS



GENERAL DEMOLITION NOTES

SECURITY DOOR CONTACTS

SECURITY MOTION DETECTOR

SECURITY SYSTEM KEYPAD

DOOR BELL PUSHBUTTON

RECEPTACLE - DUPLEX *

RECEPTACLE DOUBLE DUPLEX*

LETTER INDICATES DUPLEX HALF

CONTROLLED RECEPTACLE *

CONTROLLED RECEPTACLE *

WALL TELEPHONE OUTLET **

VOICE/DATA WALL OUTLET *

CEILING MOUNTED

TV OUTLET *

INSTALLATION

FLOOR MOUNTED BOX

POWER POLE

FIELD VERIFY HEIGHT

SINGLE RECEPTACLE*

DOOR CHIME WITH LED

HSC**I** CCTV CAMERA

- CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.
- B. REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN
- EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.
- WIRING BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE OR PANEL. ELECTRICAL CONTRACTOR SHALL INSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES,
- OUTLETS, LIGHT FIXTURES, ETC. HAVE NOT BEEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.
- G. ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL
- H. NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
- MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
- REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK, MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND COINCIDE WITH LOCATION SHOWN FOR THE NEW WORK.
- K. FLUSH OUTLET BOXES IN EXISTING WALLS TO REMAIN MAY BE ABANDONED IN PLACE. REMOVE DEVICES AND WIRING, PLUG OPENING AND PROVIDE AND INSTALL A BLANK DEVICE PLATE.
- EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
- OUTLETS OR WIRING IS TO BE DEMOLISHED IT SHALL BE REMOVED BACK TO THE NEXT TERMINAL POINT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER OR HIS REPRESENTATIVE TO HAVE EQUIPMENT AND WIRING DESIGNATED FOR REMOVAL OR PRESERVATION PRIOR TO REMOVAL OF OUTLET BOXES, CONDUIT OR WIRING BY ELECTRICAL CONTRACTOR.
- COORDINATE WITH OWNER PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS, WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.

EQUIPMENT ANCHORAGE

M/E/P COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 & 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED(e.g. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL
- ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 120 / 220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE. 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF
- MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
- THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED IN THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FELXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.
- A. COMPONENTS WEIGHTING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B. COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5
- THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT OF THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

- PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.
- THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PRE-APPROVED INSTALLATION GUIDE (e.g. OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.
- MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E): MP ☐ MD ☐ PP ☐ E ■ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND MP ☐ MD ☐ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #)

APPLICABLE CODES & STANDARDS

- . 2019 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
- 2. 2019 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
- 2019 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
- . 2019 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE
- 2018 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS. 2019 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2018
- UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
- 6. 2019 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
- INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.

2019 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2018

- 9. 2019 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
- 10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- NATIONAL FIRE ALARM CODE (NFPA 72) 2016.

- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- 2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- 4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- 5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
- 6. UNDERWRITER LABORATORIES (UL)
- CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

ALTERNATE", CONTRACTOR SHALL PROVIDE SEPARATE

BID ALTERNATE CONSISTS OF: CARBON MONOXIDE NOTIFICATION DEVICES. ASSOCIATED POWER SUPPLIES AND ALL CONNECTIONS NECESSARY FOR A COMPLETE

BID ALTERNATE NOTE

WHERE INDICATED ON PLANS, SHEETS SHOWN AS "BID

BUDGET LINE COST/BID LINE COST ITEMS.

AS SUCH THIS CARBON MONOXIDE SCOPE IS NOT TO BE INCLUDED AS PART OF BASE BID.

E0.1 SYMBOLS, ABBRE., CODES, STANDARDS, NOTES & SHEET INDEX. E1.1 ELECTRICAL DETAILS. E2.1 ELECTRICAL SITE PLAN. E3.1 ELECTRICAL DEMOLITION PLAN - THE ACADEMIC CENTER AREA A.

E3.2 ELECTRICAL DEMOLITION PLAN - THE ACADEMIC CENTER AREA A. E3.3 ELECTRICAL DEMOLITION PLAN - THE BARN.

E3.4 ELECTRICAL DEMOLITION PLAN - THE UNION & RELOCATABLE

CLASSROOMS. E4.1 SYSTEMS PLAN - THE ACADEMIC CENTER AREA A.

E4.2 SYSTEMS PLAN - THE ACADEMIC CENTER AREA B. E4.3 SYSTEMS PLAN - THE BARN.

E4.4 SYSTEMS PLAN - THE UNION & RELOCATABLE CLASSROOMS.

FA0.1 FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX & NOTES.

FA1.1 FIRE ALARM RISER DIAGRAM. FA1.2 BATTERY & VOLTAGE DROP CALCULATIONS.

FA1.3 FIRE ALARM RISER DIAGRAM, EQUIPMENT LIST, DETAILS, BATTERY & VOLTAGE DROP CALCULATIONS - CO NOTIFICATION. FA3.1 FIRE ALARM PLAN - THE ACADEMIC CENTER AREA A.

FA3.2 FIRE ALARM PLAN - THE ACADEMIC CENTER AREA B.

FA3.3 FIRE ALARM PLAN - THE BARN. FA3.4 FIRE ALARM PLAN - THE UNION & RELOCATABLE CLASSROOMS.

FA4.1 CO NOTIFICATION PLAN - THE ACADEMIC CENTER AREA A. FA4.2 CO NOTIFICATION PLAN - THE ACADEMIC CENTER AREA B.

FA4.4 CO NOTIFICATION PLAN - THE UNION & RELOCATABLE

FA4.3 CO NOTIFICATION PLAN - THE BARN. CLASSROOMS.

03/07/2022

(DSA STAMP AREA)

AURUM CONSULTING

MONTEREY BAY, INC

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REVISIONS

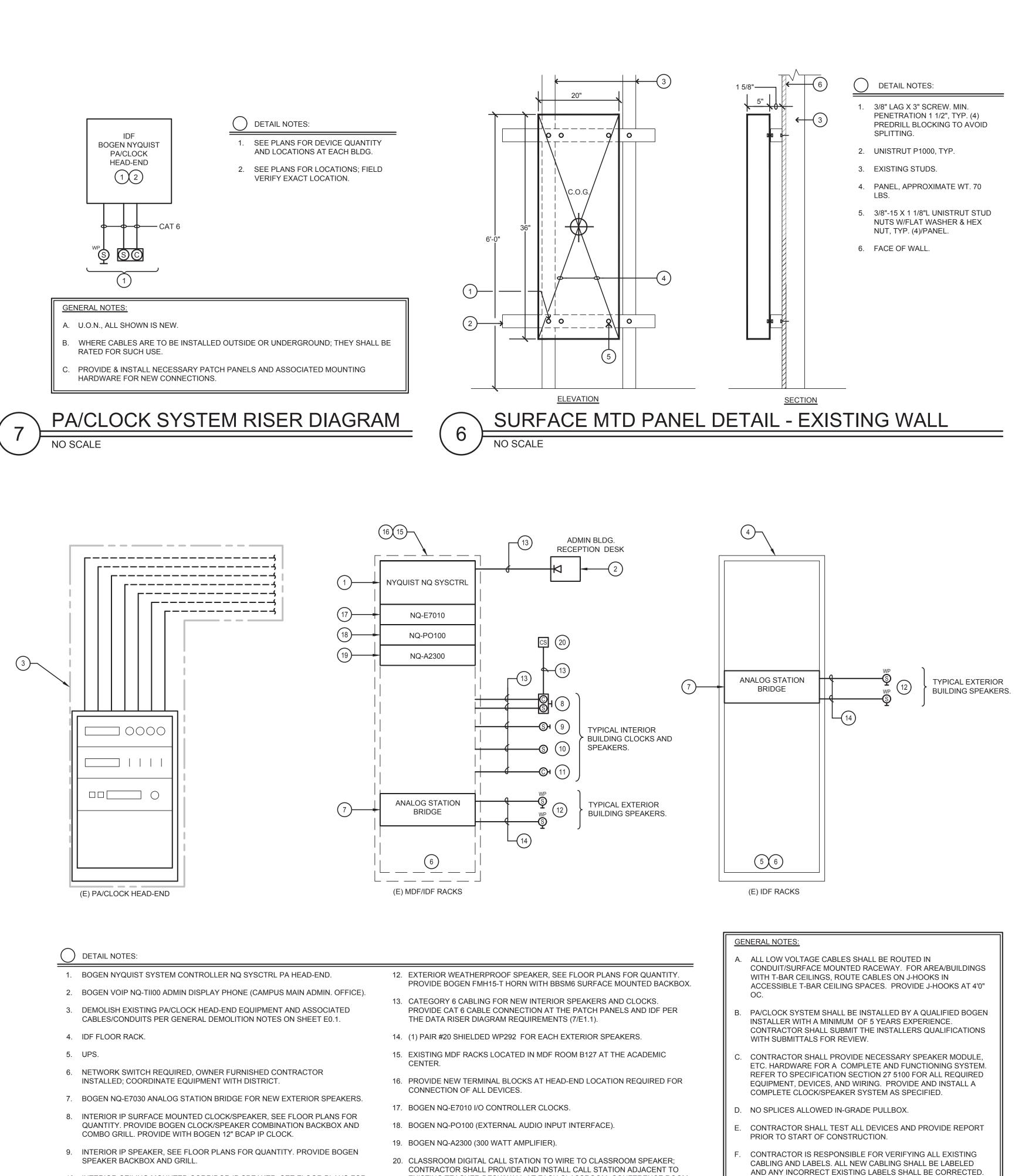
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SFA JOB NO:

21068

BID ALTERNATE —



EXISTING TEACHER DESK/WALL AT EACH CLASSROOM, CONFERENCE ROOM,

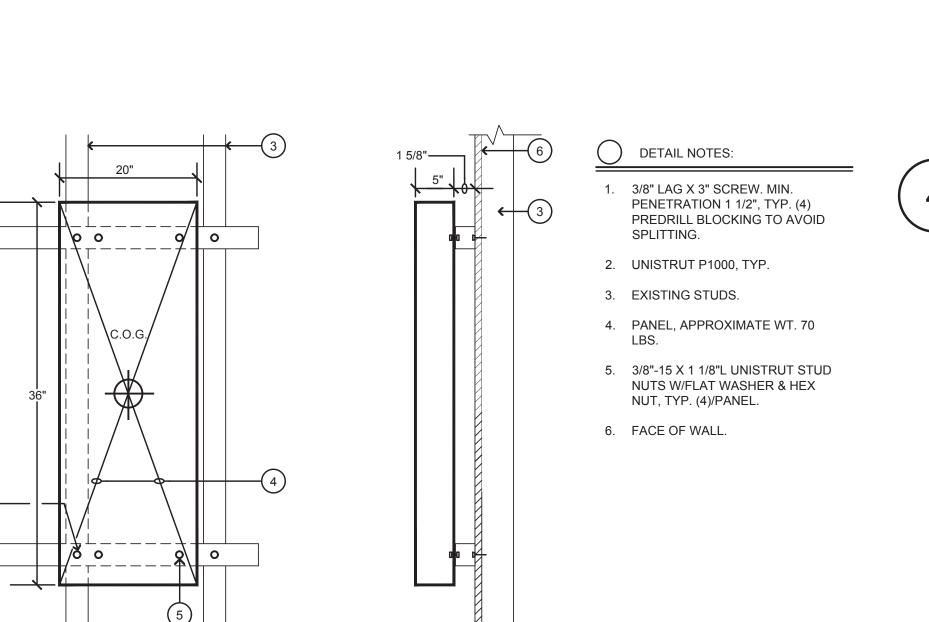
COACH, SECRETARY, PRINCIPLE, VICE PRINCIPLE AND NURSE'S OFFICES,

10. INTERIOR CEILING MOUNTED CORRIDOR IP SPEAKER; SEE FLOOR PLANS FOR

11. IP 12" CLOCK, SEE FLOOR PLANS FOR QUANTITY. PROVIDE WITH BACKBOX.

QUANTITY. SPEAKER SHALL BE FLUSH MOUNTED.

PA/CLOCK RISER DIAGRAM



G. SEE FLOOR PLANS FOR EXACT LOCATIONS AND QUANTITIES OF

CALL STATIONS SHALL BE FIELD COORDINATED FOR EXACT

INSTALL LOCATION.

NEW DEVICES. CALL STATIONS NOT SHOWN ON FLOOR PLANS;

SIGNAL CABLE SCHEDULE DESCRIPTION USE REMARKS #22/4 CONDUCTOR UNSHILDED | FROM PANEL TO DEVICES INTRUSION #18/4 CONDUCTOR UNSHILDED | FROM PANEL TO ZONE EXPANDER INTRUSION ALARM RISER DIAGRAM

DETAIL NOTES:

EACH BLDG.

SECURITY KEY PAD.

MOTION DETECTOR.

DOOR CONTACT.

SUB-PANEL.

GENERAL NOTES:

NO SCALE

A. U.O.N., ALL SHOWN IS NEW.

WITH DISTRICT STANDARDS.

SEE PLANS FOR DEVICE QUANTITY AND LOCATIONS AT

5. (4) BOSCH ZONE B208 EXPANDER MODULES PER EACH

B. AT EACH LOCATION SHOWN ON POWER & SYSTEMS PLANS FOR TELEPHONE, PROVIDE PHONE COMPATIBLE

C. WHERE CABLES ARE TO BE INSTALLED OUTSIDE OR UNDERGROUND; THEY SHALL BE RATED FOR SUCH USE.

6. PROVIDE & INSTALL (2) 12V, 8AH BATTERIES.

) DETAIL NOTES:

 UNISTRUT BRACKET. 2. GALVANIZED RIGID STEEL CONDUIT

SCHEDULE 40 PVC. 4. WRAPPED GALVANIZED RIGID STEEL ELBOW AND UNDERGROUND

ALARM PANEL B9512G

BOSCH ALARM

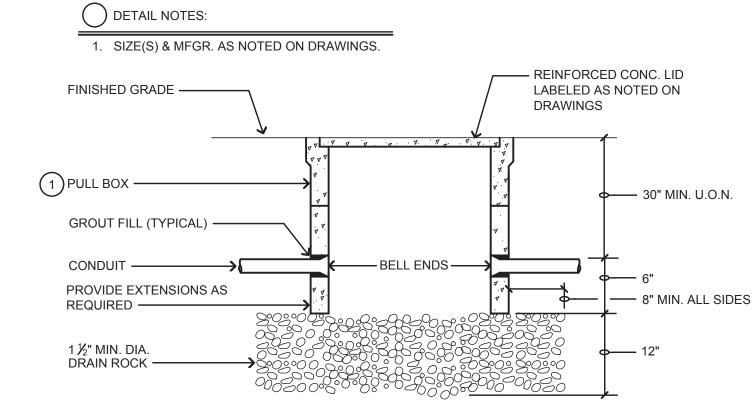
SUB-PANEL

UNISTRUT CHANNEL.

GENERAL NOTES: A. FOR WOOD STUD WALL: USE 3/8" LAG BOLT WITH MIN. 3/4" EMBEDMENT INTO STUDS. (ONE AT EACH END OF BRACKET)

B. FOR CONCRETE WALL: USE 3/8" WEDGE ANCHOR WITH MIN. 2 1/2" EMBEDMENT INTO CONCRETE WALL. (ONE AT EACH END OF BRACKET)

UNDERGROUND CONDUIT RISER DETAIL





UNPAVED AREAS PAVED AREAS - SAW CUT (E) AC PAVING AC PAVING OR CONC. WHEN OCCURS -WHEN OCCURS — 3" THICK AC PAVING FINISHED GRADE ----WHEN OCCURS - 6" CLASS 2 AGGREGATE BASE, 95% COMPACTION WARNING MARKER MIN. 95% COMPACT EARTH TAPE CONTINUOUS FILL, SEE SPECS LENGTH OF TRENCH ——— CONDUIT, SEE PLANS FOR SAND BACKFILL ----QUANTITY, SIZE AND USAGE

SAW CUT, TRENCH & BACKFILL FOR (N) CONDUITS. PATCH WALKWAY TO MATCH (E) SURROUNDING SURFACES. CARE SHALL BE TAKEN TO PROTECT EXISTING TREES. RESEED OR RESOD (E)

DISTURBED PLANTED AREAS TO ARCHITECT'S SATISFACTION. EXISTING A.C. SHALL BE CUT AND REMOVED IN SUCH A MANNER SO AS NOT TO TEAR BULGE OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL. ALL CUTS SHALL BE

PARALLEL OR PERPENDICULAR TO STREET CENTERLINE, WHEN PRACTICAL. BASE MATERIAL TO BE REPLACED TO THE DEPTH OF EXISTING BASE AND COMPACTED TO A MIN. 95% RELATIVE COMPACTION, A.C. MAY BE SUBSTITUTED FOR BASE MATERIAL, WHEN USED AS

BACKFILL, CLASS 100-E-100 P.C.C. MAY BE SUBSTITUTED FOR BASE MATERIAL. A TACK COAT OF ASPHALTIC EMULSION OR PAVING ASPHALT SHALL BE APPLIED TO EXISTING A.C. AT ALL CONTACT SURFACES, PRIOR TO RESURFACING.

ASPHALTIC CONCRETE RESURFACING; A) MINIMUM TOTAL THICKNESS SHALL BE ONE INCH GREATER THAN EXISTING A.C. B) A.C. SHALL BE HOT PLANT MIX.

6. ALL A.C. RESURFACING SHALL BE SEAL COATED WITH AN EMULSIFIED ASPHALT AND COVERED WITH CLEAN SAND.

TYPICAL TRENCH SECTION

SEE ARCHITECTURAL SHEET A0.3 FOR CONCRETE DETAILS.

(DSA STAMP AREA)

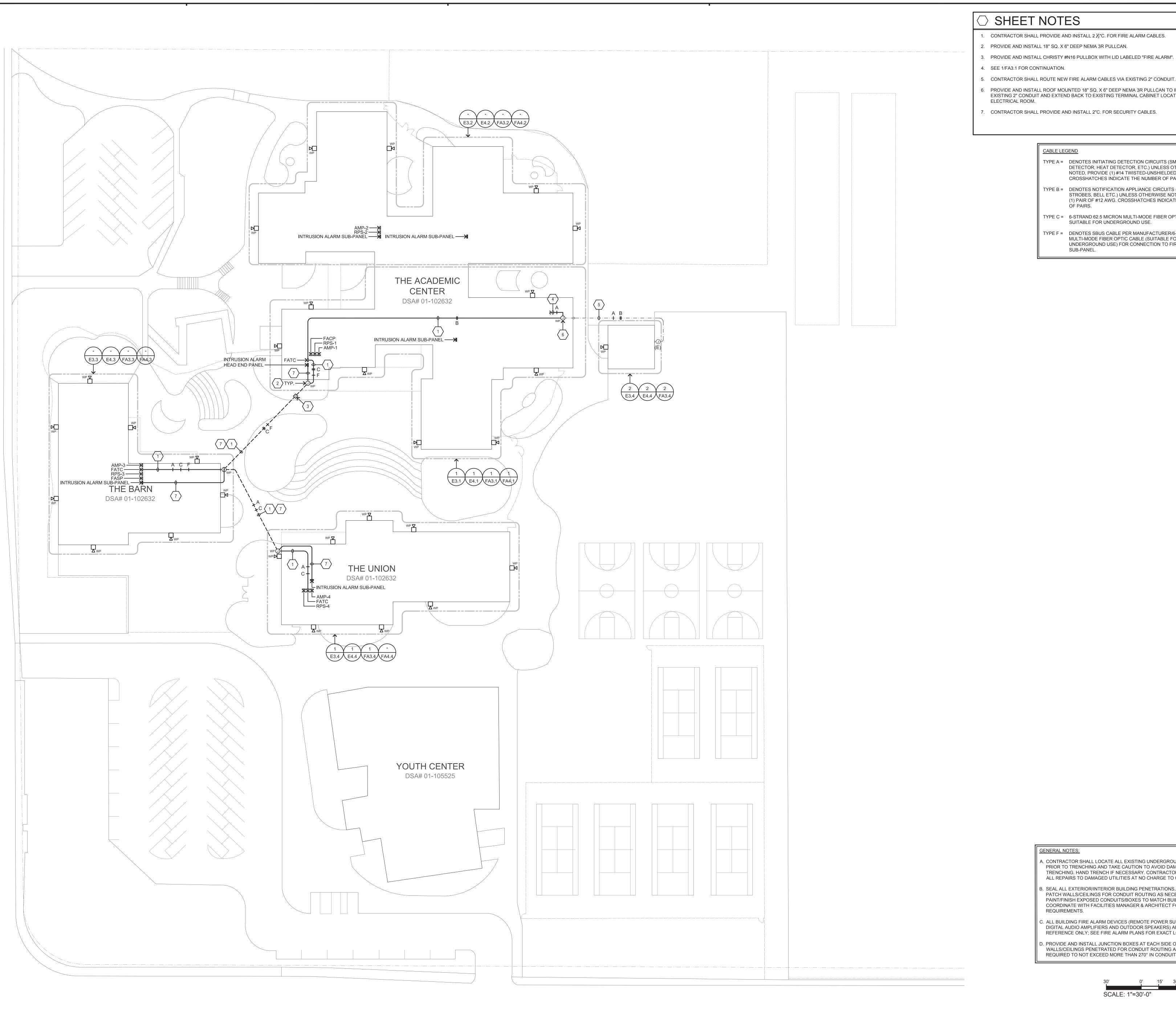




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SYSTE

DRAWN BY: CHECKED BY: SFA JOB NO: 03/07/2022



○ SHEET NOTES

- 1. CONTRACTOR SHALL PROVIDE AND INSTALL 2 ½"C. FOR FIRE ALARM CABLES.
- 2. PROVIDE AND INSTALL 18" SQ. X 6" DEEP NEMA 3R PULLCAN.
- 4. SEE 1/FA3.1 FOR CONTINUATION.
- 5. CONTRACTOR SHALL ROUTE NEW FIRE ALARM CABLES VIA EXISTING 2" CONDUIT.
- 6. PROVIDE AND INSTALL ROOF MOUNTED 18" SQ. X 6" DEEP NEMA 3R PULLCAN TO INTERCEPT EXISTING 2" CONDUIT AND EXTEND BACK TO EXISTING TERMINAL CABINET LOCATED IN ELECTRICAL ROOM.
- 7. CONTRACTOR SHALL PROVIDE AND INSTALL 2"C. FOR SECURITY CABLES.

- TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
- TYPE B = DENOTES NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS, STROBES, BELL ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER
- TYPE C = 6-STRAND 62.5 MICRON MULTI-MODE FIBER OPTIC CABLE, SUITABLE FOR UNDERGROUND USE.
- TYPE F = DENOTES SBUS CABLE PER MANUFACTURER/6-STRAND MULTI-MODE FIBER OPTIC CABLE (SUITABLE FOR UNDERGROUND USE) FOR CONNECTION TO FIRE ALARM

(DSA STAMP AREA)









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A. CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH IF NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.

B. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH FACILITIES MANAGER & ARCHITECT FOR EXACT

C. ALL BUILDING FIRE ALARM DEVICES (REMOTE POWER SUPPLIES,

REQUIRED TO NOT EXCEED MORE THAN 270° IN CONDUIT BENDS.

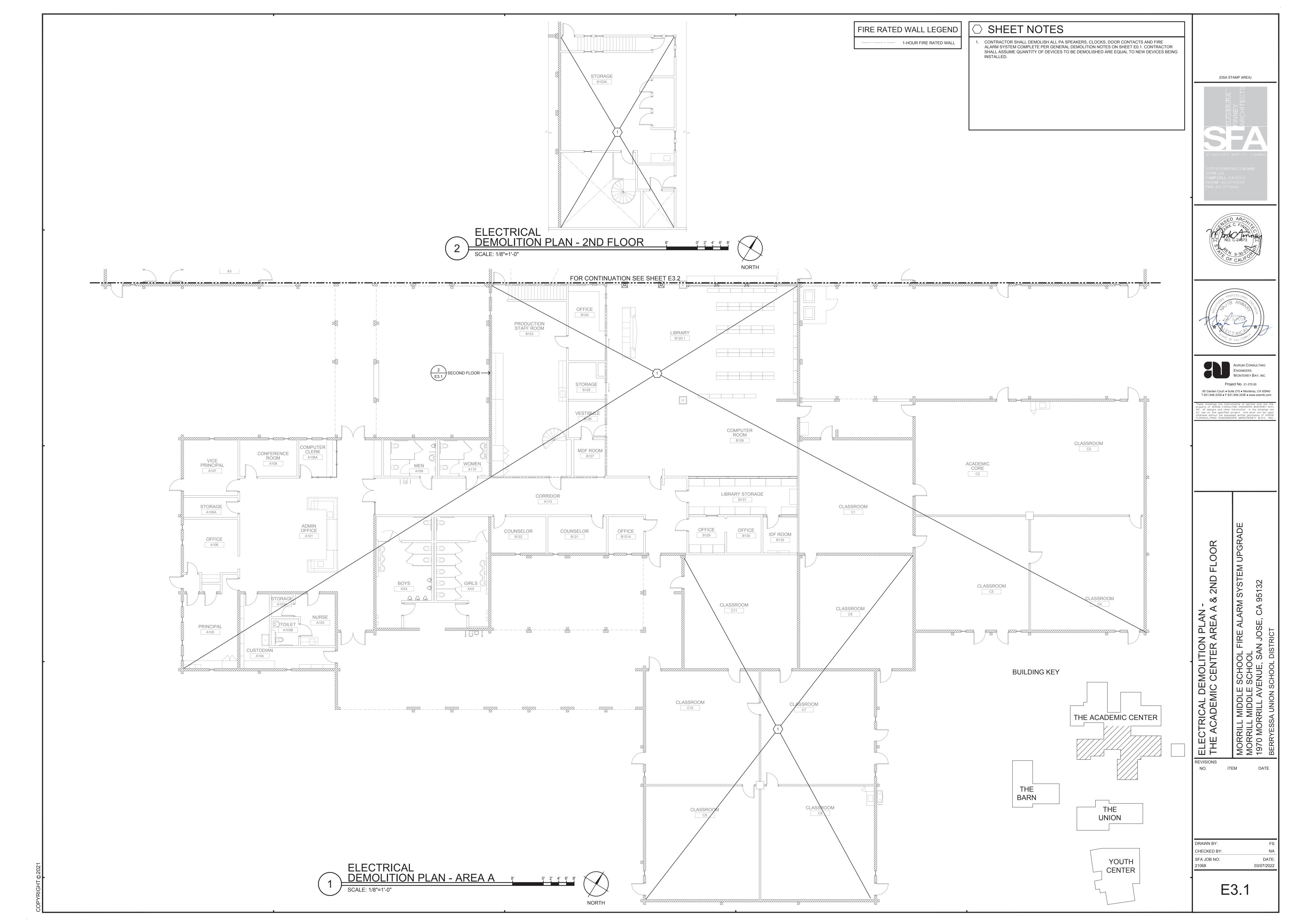
D. PROVIDE AND INSTALL JUNCTION BOXES AT EACH SIDE OF WALLS/CEILINGS PENETRATED FOR CONDUIT ROUTING AND AS

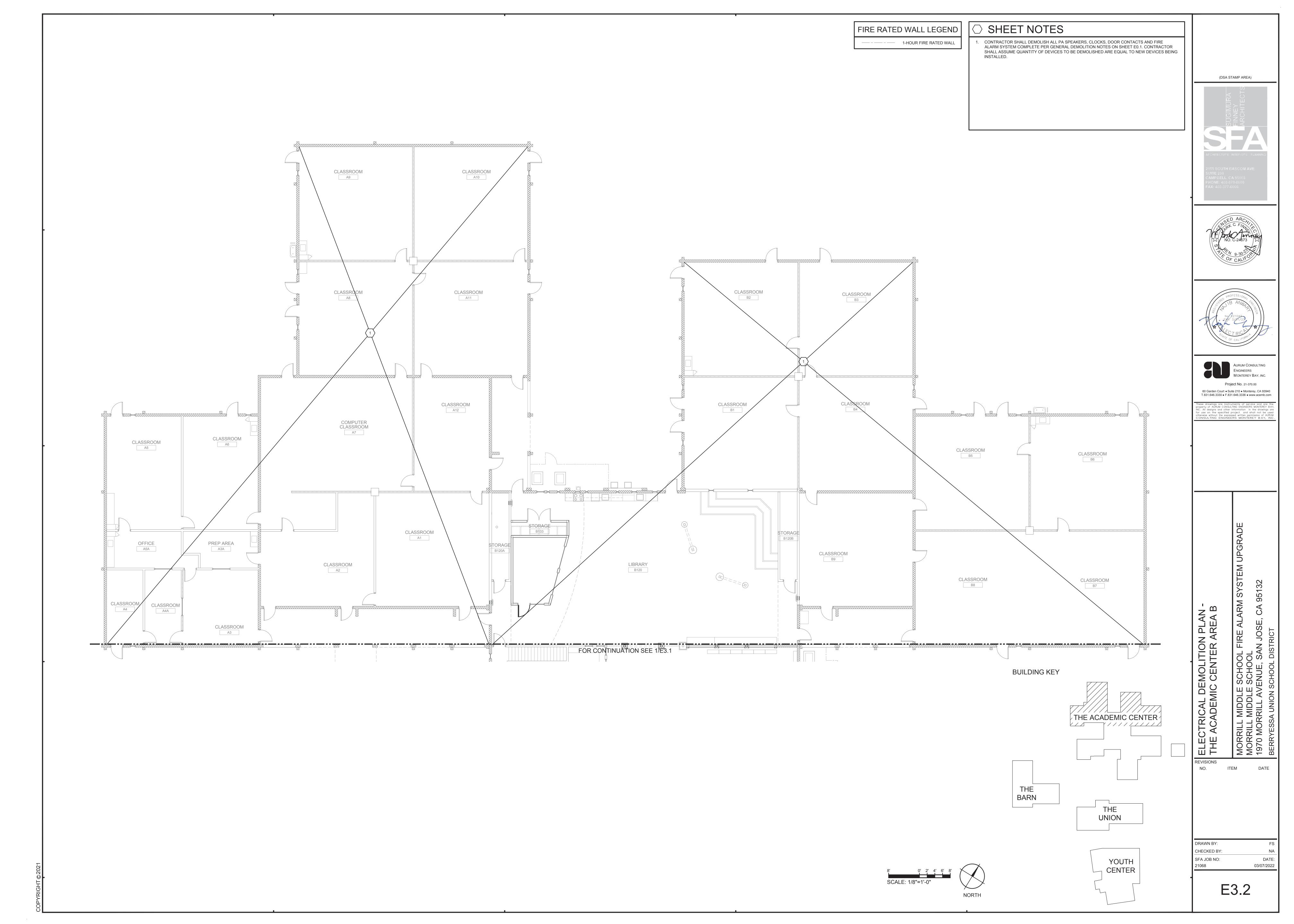
DIGITAL AUDIO AMPLIFIERS AND OUTDOOR SPEAKERS) ARE SHOWN FOR REFERENCE ONLY; SEE FIRE ALARM PLANS FOR EXACT LOCATIONS.

GENERAL NOTES:

REQUIREMENTS.







> SHEET NOTES FIRE RATED WALL LEGEND CONTRACTOR SHALL DEMOLISH ALL PA SPEAKERS, CLOCKS, DOOR CONTACTS AND FIRE ------ 1-HOUR FIRE RATED WALL ALARM SYSTEM COMPLETE PER GENERAL DEMOLITION NOTES ON SHEET E0.1. CONTRACTOR SHALL ASSUME QUANTITY OF DEVICES TO BE DEMOLISHED ARE EQUAL TO NEW DEVICES BEING INSTALLED. (DSA STAMP AREA) CLOTHING D1 60 Garden Court

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www.acemb.com DRESSING D1A UTILITY D1B ARTS D2 FIRE ALARM SYSTEM UPGRADE SCIENCE D3 SCIENCE STORAGE D12 ELECTRICAL DEMOLITION PL THE BARN OFFICE D7A KILN D7B CUSTODIAN SCIENCE D4 D10 **BUILDING KEY** SCIENCE D5 THE ACADEMIC CENTER SCIENCE D6 COMPUTER CLASSROOM MUSIC D7 D5.5 REVISIONS NO. DATE THE UNION CHECKED BY: SFA JOB NO: YOUTH CENTER 03/07/2022 E3.3

FIRE RATED WALL LEGEND

----- 1-HOUR FIRE RATED WALL

> SHEET NOTES

CONTRACTOR SHALL DEMOLISH ALL PA SPEAKERS, CLOCKS, DOOR CONTACTS AND FIRE ALARM SYSTEM COMPLETE PER GENERAL DEMOLITION NOTES ON SHEET E0.1. CONTRACTOR SHALL ASSUME QUANTITY OF DEVICES TO BE DEMOLISHED ARE EQUAL TO NEW DEVICES BEING

(DSA STAMP AREA)









ELECTRICAL DEMOLITION PLAN THE UNION & RELOCATABLE CL THE ACADEMIC CENTER

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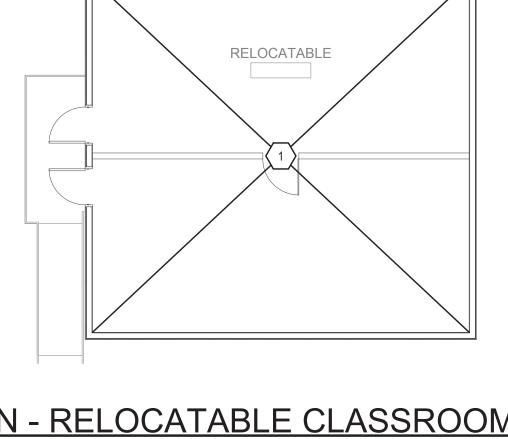
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BUILDING KEY

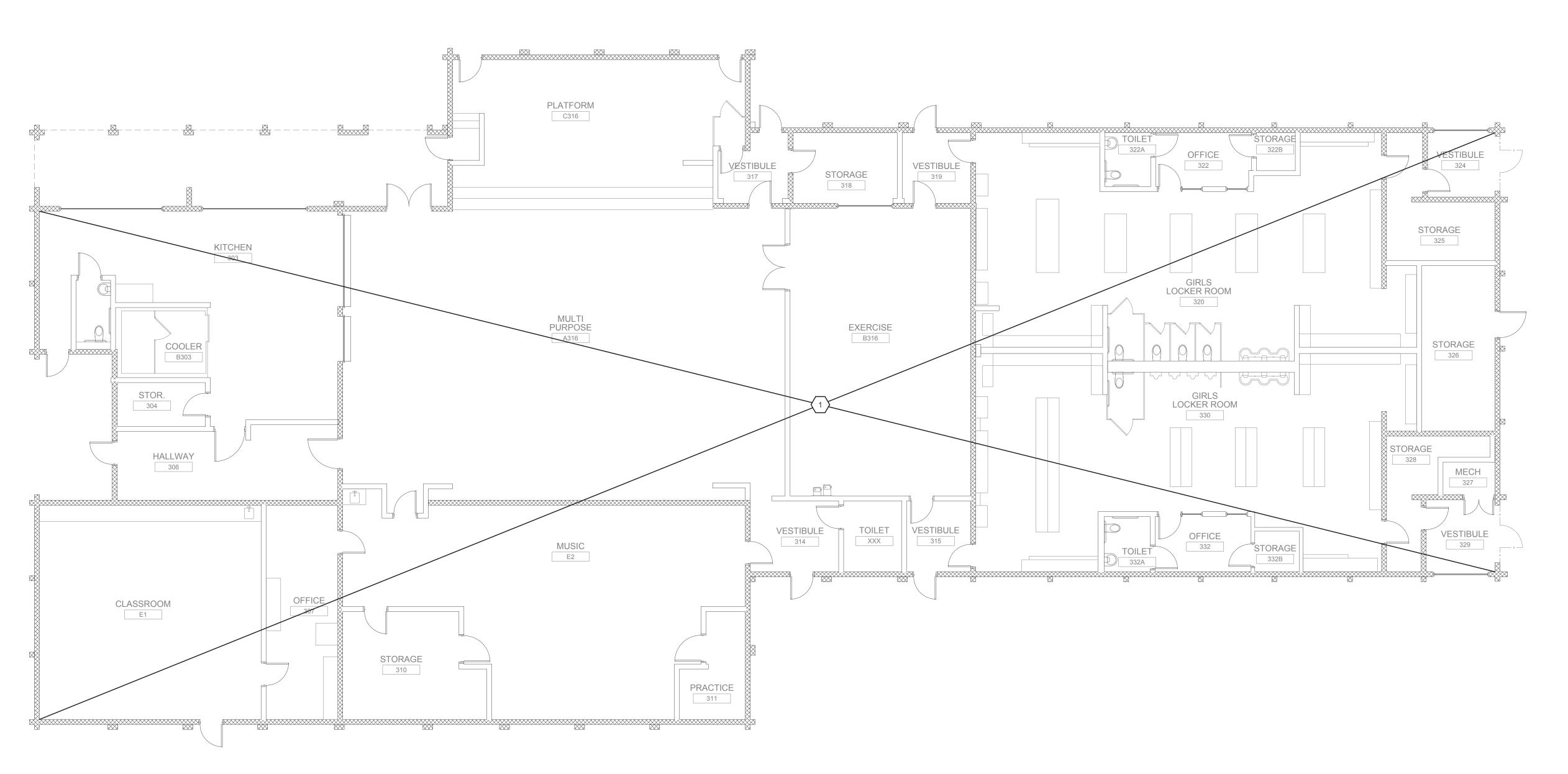
THE BARN REVISIONS NO.

CHECKED BY: SFA JOB NO: 03/07/2022

E3.4

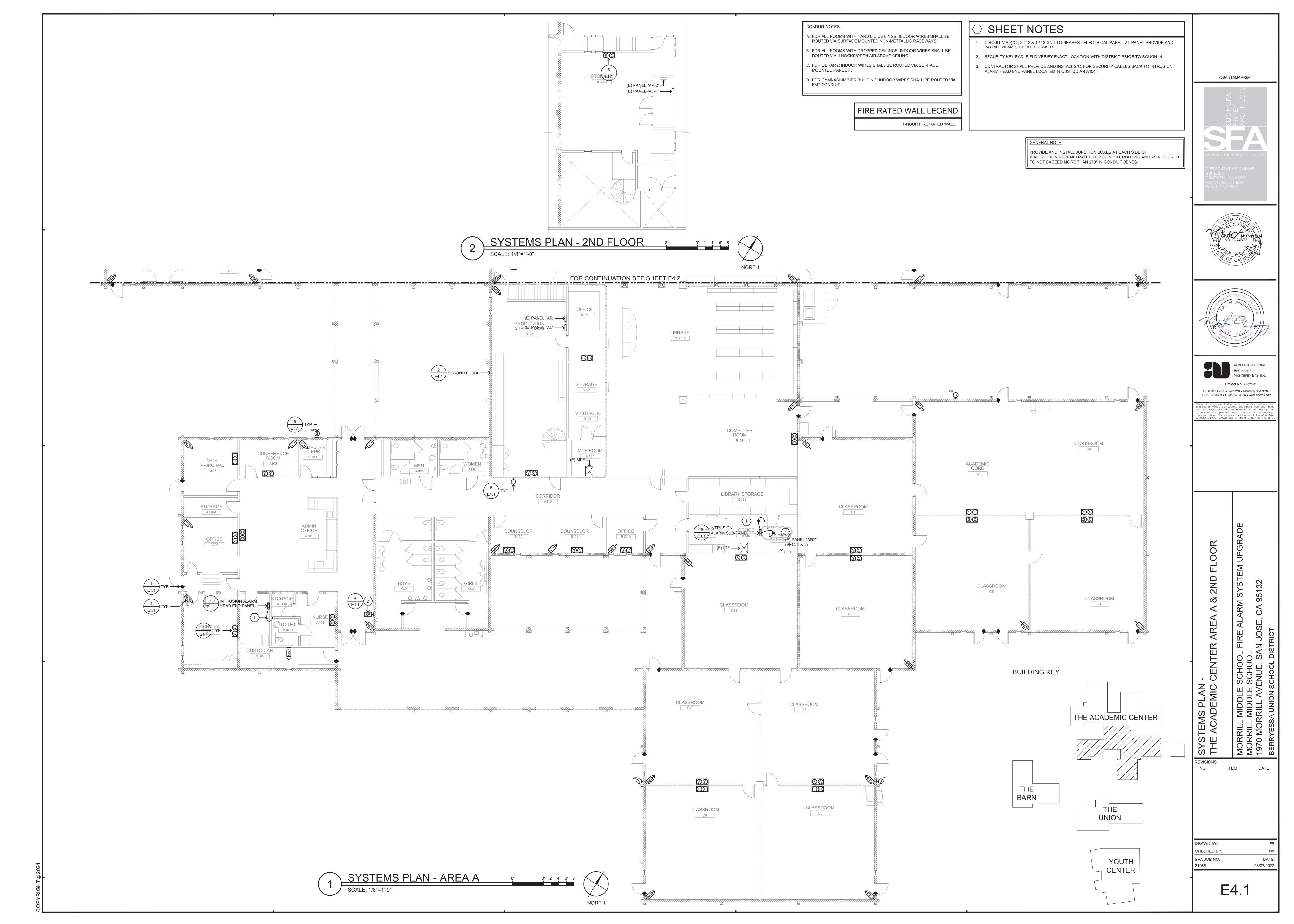


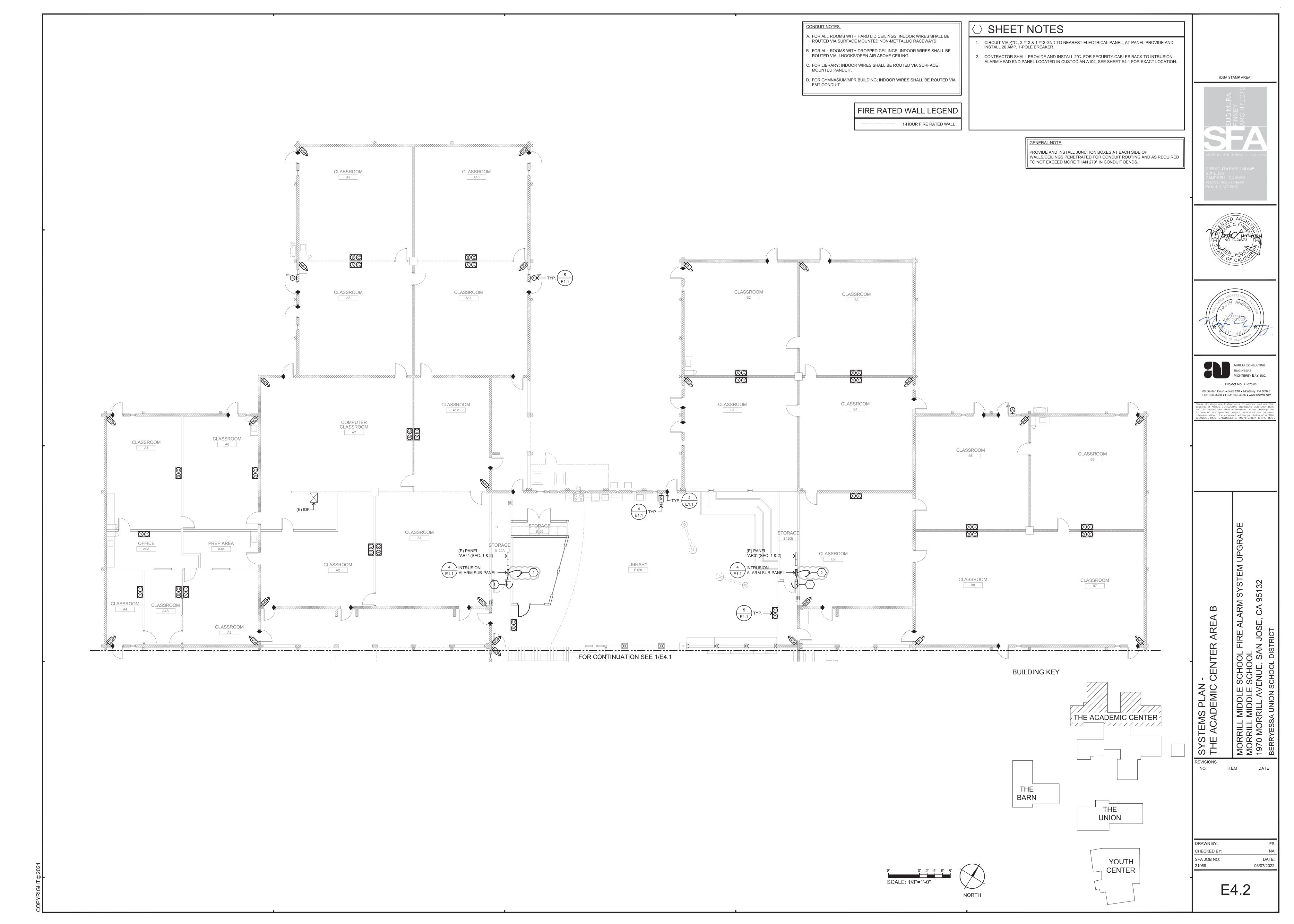
ELECTRICAL
DEMOLITION PLAN - RELOCATABLE CLASSROOMS 8 0 2 4 6 8 SCALE: 1/8"=1'-0"

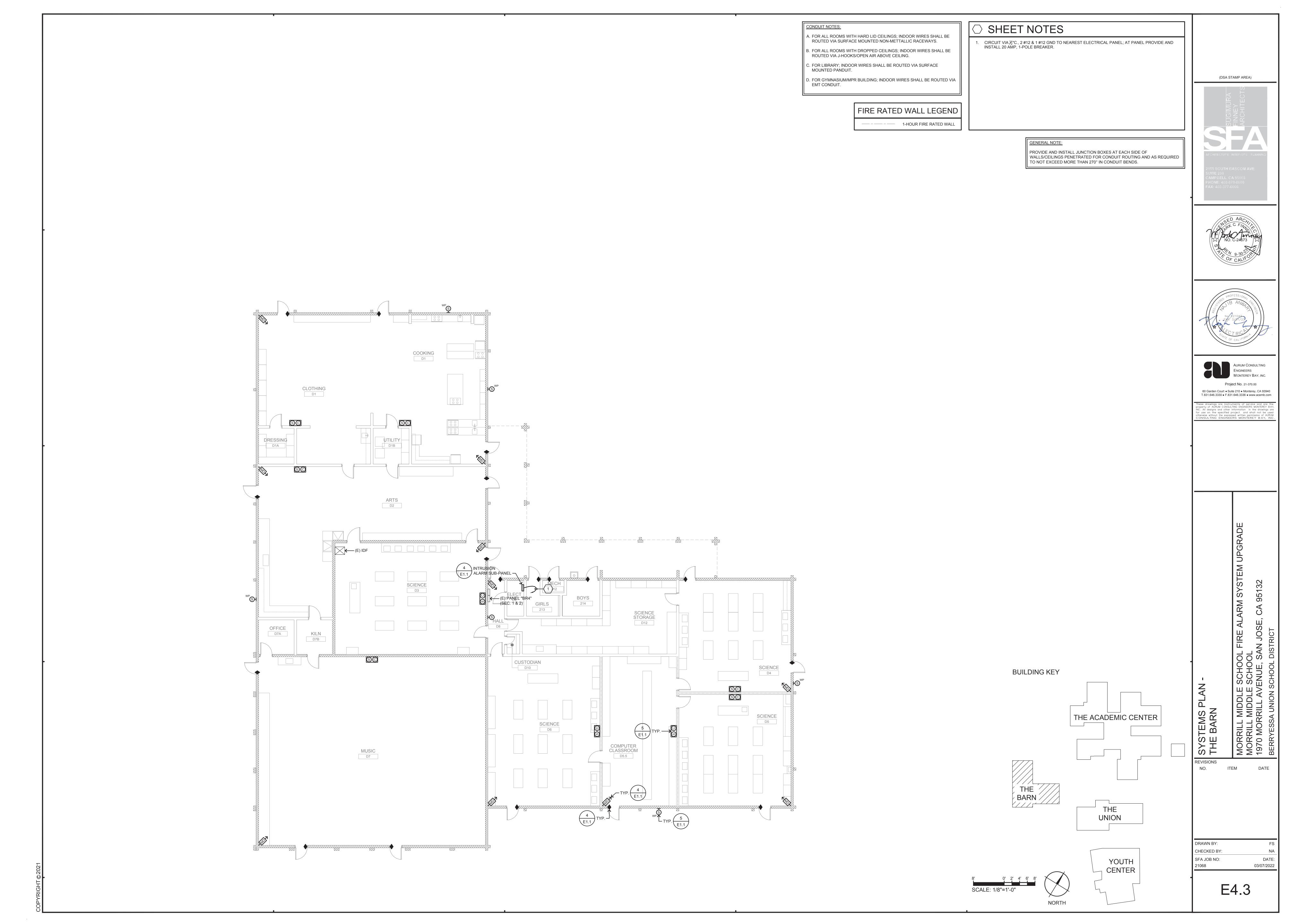


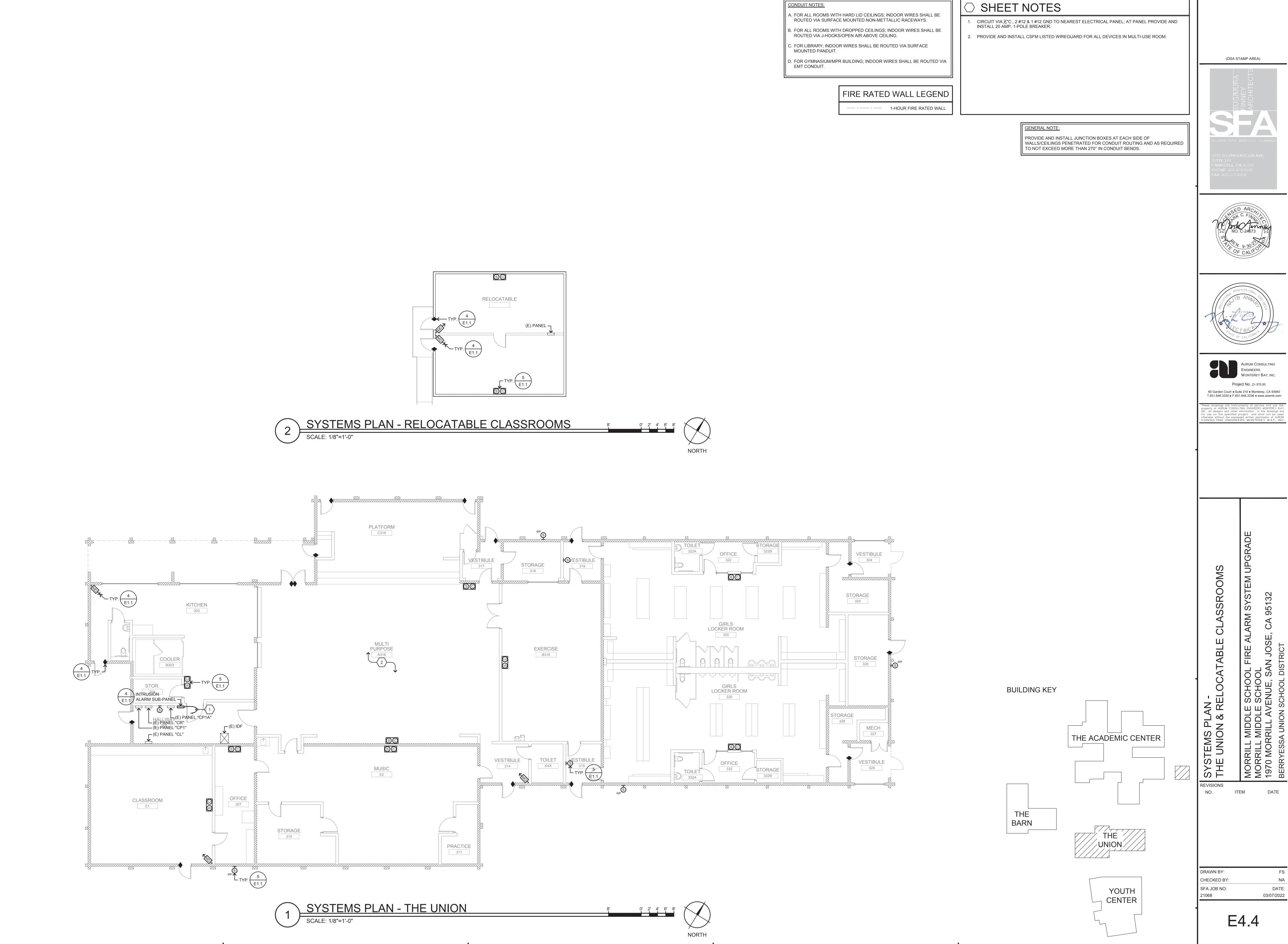
ELECTRICAL DEMOLITION PLAN - THE UNION SCALE: 1/8"=1'-0"

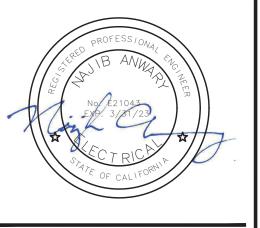




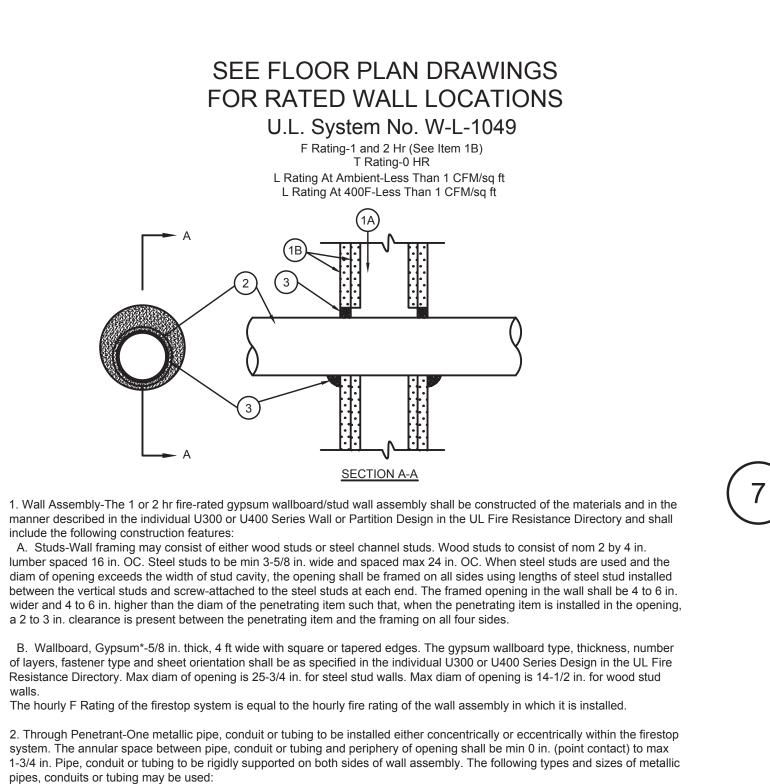








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B. Iron Pipe-Nom 24 in. diam (or smaller) cast or ductile iron pipe. C. Conduit-Nom 4 in. diam (or smaller) steel electrical metallic tubing, nom 6 in. diam (or smaller) steel conduit or nom I in. diam (or smaller) flexible steel conduit. D. Copper Tubing-Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing. E. Copper Pipe-Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

3. Fill, Void or Cavity Material*-Sealant-Min 5/8 in. thickness of fill material applied within annulus, flush with both surfaces of wall. At the point contact location between through penetrant and wallboard, a min 3/8 in. diam bead of fill material shall be applied at the gypsum wallboard/through penetrant interface on both surfaces of wall.

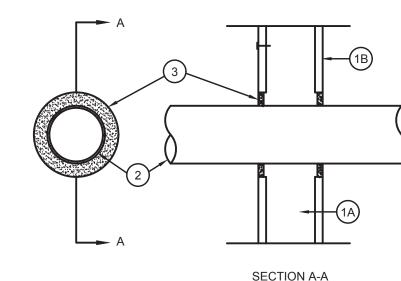
Specified Technologies Inc.-SpecSeal 100, 101, 102 or 105 Sealant 'Bearing the UL Classification Marking

A. Steel Pipe-Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

2-HR FIRE-RATED WALL PENETRATION

SEE FLOOR PLAN DRAWINGS FOR RATED WALL LOCATIONS

U.L. System No. W-L-1062 F Rating-1 HR T Rating-0 HR L Rating At Ambient-Less Than 1 CFM/sq ft L Rating At 400F-Less Than 1 CFM/sq ft



1. Wall Assembly-The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs-Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in OC. Steel studs to be min 3|Q5|W/|A8|S in. wide and spaced max 24 in. OC. B. Wallboard Gypsum*-One Layer of nom |Q5|W/|A8|S in. thick gypsum wallboard as specified in the individual Wall and

Partition Design. Max diam of opening is 4|Q3|W/|A4|S in. 2. Through Penetrants-One metallic conduit to be installed within the firestop system. The space between the conduit and

3. Fill, Void or Cavity Material*-Caulk-Min 1|Q1|W/|A2|S in. thickness of fill material applied within the annulus, flush with both surfaces of wall.

periphery of opening shall be a min |Q1|W/|A4|S in. to a max |Q3|W/|A8|S in. Conduit to be rigidly supported on both sides of wall

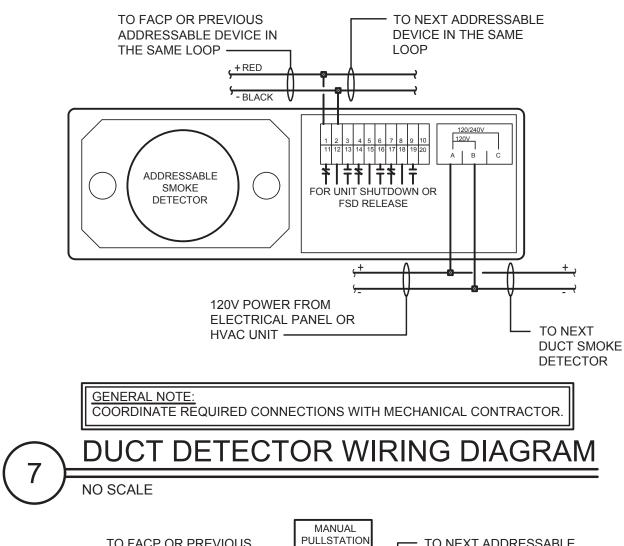
General Electric Co.-Pensit 100 Caulk.

Specified Technologies Inc.-Pensil 100 Sealant and Pensit 300 Sealant.

*Bearing the UL Classification Marking

1-HR FIRE-RATED WALL PENETRATION

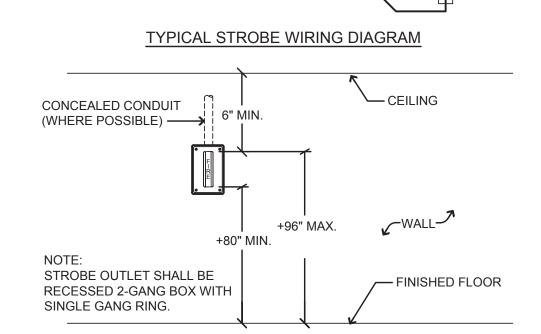
assembly. A nominal 4 in. diameter (or smaller) electrical metallic tubing or steel conduit may be used.



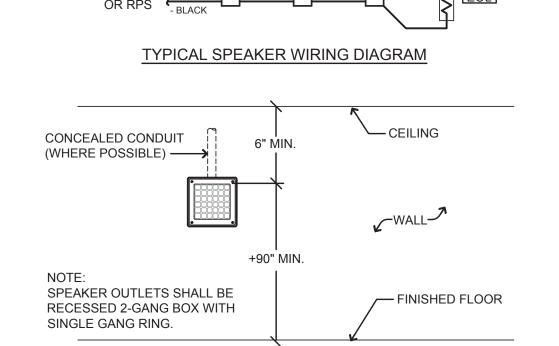
TO FACP OR PREVIOUS — TO NEXT ADDRESSABLE ADDRESSABLE DEVICE IN DEVICE IN THE SAME THE SAME LOOP—— LOOP TYPICAL MANUAL PULL STATION WIRING DIAGRAM - MANUAL PULLSTATION CONCEALED CONDUIT →

48" TO TOP OF DEVICE PULLSTATION OUTLET SHALL - FINISHED FLOOR BE RECESSED 2-GANG BOX WITH SINGLE GANG RING.

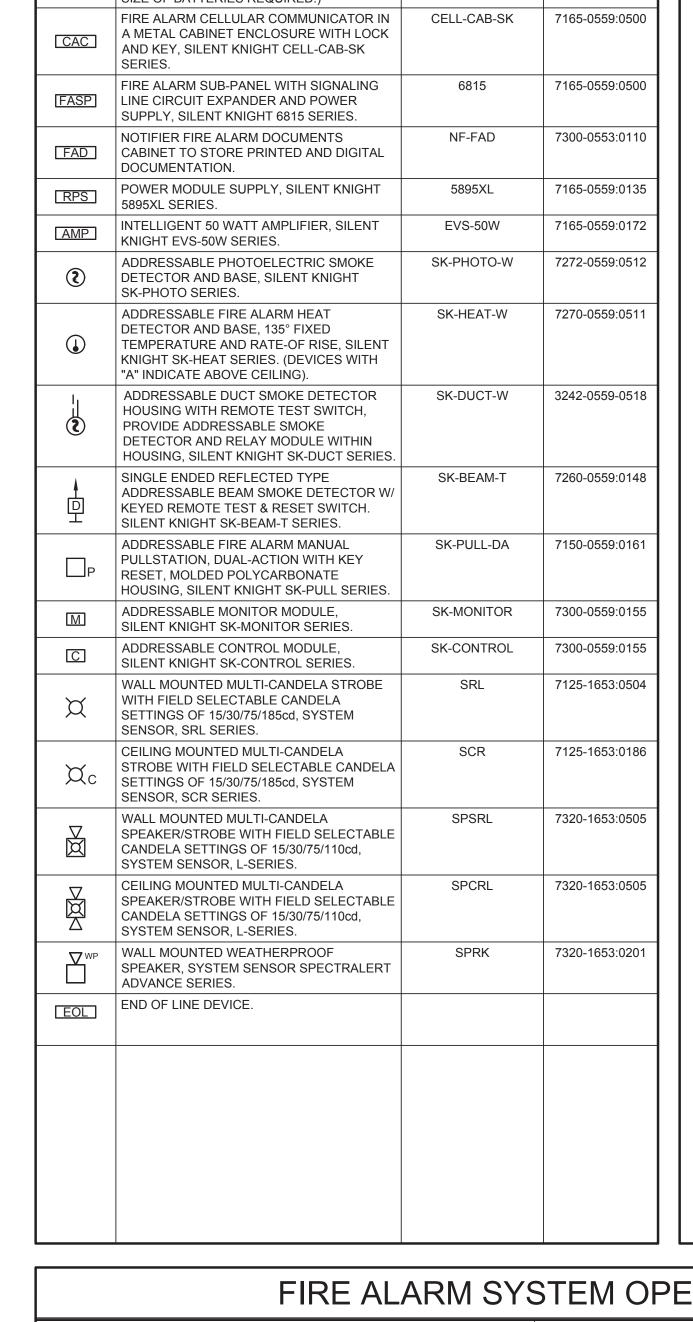
PULL STATION MOUNTING DETAIL



STROBE INSTALLATION DETAIL



SPEAKER INSTALLATION DETAIL



SYMBOL DESCRIPTION AND MODEL NUMBER ADDRESSABLE FIRE ALARM CONTROL PANEL AND MERSOR OF MASS IN THE ALARM CONTROL PANEL AND MERSOR OF MASS IN THE ALARM CONTROL FIRE ALARM SUB-PANEL WITH LOCK ADDRESSABLE SHIRE SHED IT THE ALARM SUB-PANEL WITH SIGNALING BEAL ALARM SUB-PANEL WITH SIGNALING LINE CIRCUIT EXPANDER AND POWER SHEES. TOTAL COMMENTATION. THE ALARM SUB-PANEL WITH SIGNALING LINE CIRCUIT EXPANDER AND POWER SHEES. TOTAL COMMENTATION. TOTAL SHEED SHEES. TOTAL SHEED SHEED SHEES. TOTAL SHEED SHEES. TOTAL SHEED SHEES. TOTAL SHEED SHEED SHEED SHEED. THE ALARM SUB-PANEL WITH SIGNALING LINE CIRCUIT EXPANDER AND POWER SHEES. TOTAL SHEED SHEES. TOTAL SHEED SHEES. TOTAL SHEED SHEED SHEES. TOTAL SHEED SHEES. TOTAL SHEED SHEED SHEED SHEED. THE SHEED SHEED SHEED SHEED. THE SHEED SHEED SHEED SHEED. TO SHEED SHEED SHEED SHEED. TO SHOULD SHEED SHEED SHEED. TO SHEED SHEED SHEED SHEED. TO SHEED SHE	F	IRE ALARM EQUIP	PMENT L	IST
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INTELLIGENT 50 WATT AMPLIFIER, SILENT	FAD	CABINET TO STORE PRINTED AND DIGITAL	NF-FAD	7300-0553:0110
MIGHT EVS-50W SERIES. ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR AND BASE, SILENT KNIGHT SK-PHOTO SERIES. ADDRESSABLE FIRE ALARM HEAT DETECTOR AND BASE, 135° FIXED TEMPERATURE AND RATE-OF RISE, SILENT KNIGHT SK-HOTO SERIES. ADDRESSABLE FIRE ALARM HEAT DETECTOR AND BASE, 135° FIXED TEMPERATURE AND RATE-OF RISE, SILENT KNIGHT SK-HEAT SERIES, (DEVICES WITH "A" INDICATE ABOVE CEILING). ADDRESSABLE DUCT SMOKE DETECTOR HOUSING WITH REMOTE TEST SWITCH, PROVIDE ADDRESSABLE SMOKE DETECTOR AND RELAY MODULE WITHIN HOUSING, SILENT KNIGHT SK-DUCT SERIES. SINGLE ENDED REFLECTED TYPE ADDRESSABLE BEAM SMOKE DETECTOR WICE ADDRESSABLE BEAM SMOKE DETECTOR WITH ALL WILL BEALED ADDRESSABLE MONITOR MODULE, SILENT KNIGHT SK-PULL SERIES. SK-PULL-DA 7150-0559:0161 ADDRESSABLE FIRE ALARM MANUAL PULLSTATION, DUAL-ACTION WITH KEY RESET, MOLDED POLVCARBONATE HOUSING, SILENT KNIGHT SK-PULL SERIES. SK-CONTROL 7300-0559:0155 ADDRESSABLE MONITOR MODULE, SILENT KNIGHT SK-PULL SERIES. SK-CONTROL 7300-0559:0155 ADDRESSABLE CONTROL SERIES. SK-CONTROL 7300-0559:0155 WALL MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/307/5/110cd, SYSTEM SENSOR, LSERIES. SPSRL 7320-1653:0505 WALL MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/307/5/110cd, SYSTEM SENSOR, L-SERIES. SPRK 7320-1653:0201 WALL MOUNTED WILTI-CANDELA S	RPS		5895XL	7165-0559:0135
DETECTOR AND BASE, SILENT KNIGHT SK-PHOTO SERIES. ADDRESSABLE FIRE ALARM HEAT DETECTOR AND BASE, 135° FIXED TEMPERATURE AND RATE-OF RISE, SILENT KNIGHT SK-HEAT SERIES. (DEVICES WITH "A" INDICATE ABOVE CEILING). ADDRESSABLE DUCT SMOKE DETECTOR HOUSING WITH REMOTE TEST SWITCH, PROVIDE ADDRESSABLE SMOKE DETECTOR AND RELAY MODULE WITHIN HOUSING, SILENT KNIGHT SK-DUCT SERIES. SINGLE ENDED REFLECTED TYPE ADDRESSABLE FIRE ALARM MANUAL PULLSTATION, DUAL-ACTION WITH KEY RESET, MOLDED POLYCARBONATE HOUSING, SILENT KNIGHT SK-PULL SERIES. ADDRESSABLE FIRE ALARM MANUAL PULLSTATION, DUAL-ACTION WITH KEY RESET, MOLDED POLYCARBONATE HOUSING, SILENT KNIGHT SK-PULL SERIES. ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-MONITOR SERIES. DADRESSABLE CONTROL MODULE, SILENT KNIGHT SK-MONITOR SERIES. ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-MONITOR SERIES. WALL MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. CEILING MOUNTED MULTI-CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED WLATH-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED WLATH-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. PWP WALL MOUNTED WLATH-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR SPECTRALERT ADVANCE SERIES.	AMP	· · · · · · · · · · · · · · · · · · ·	EVS-50W	7165-0559:0172
DETECTOR AND BASE, 135° FIXED TEMPERATURE AND RATE-OF RISE, SILENT KNIGHT SK-HEAT SERIES. (DEVICES WITH "A" INDICATE ABOVE CEILING). ADDRESSABLE DUCT SMOKE DETECTOR HOUSING WITH REMOTE TEST SWITCH, PROVIDE ADDRESSABLE SMOKE DETECTOR AND RELAY MODULE WITHIN HOUSING, SILENT KNIGHT SK-DUCT SERIES. SINGLE ENDED REFLECTED TYPE ADDRESSABLE BEAM SMOKE DETECTOR W KEYED REMOTE TEST & RESET SWITCH. SILENT KNIGHT SK-BEAM-T SERIES. ADDRESSABLE BEAM SMOKE DETECTOR W KEYED REMOTE TEST & RESET SWITCH. SILENT KNIGHT SK-BEAM-T SERIES. ADDRESSABLE FIRE ALARM MANUAL PULLSTATION, DUAL-ACTION WITH KEY RESET, MOLDED POLYCARBONATE HOUSING, SILENT KNIGHT SK-PULL SERIES. ADDRESSABLE MONITOR MODULE, SILENT KNIGHT SK-MONITOR SERIES. ADDRESSABLE ONTROL MODULE, SILENT KNIGHT SK-CONTROL SERIES. ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-CONTROL SERIES. ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-CONTROL SERIES. WALL MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 16/30/75/185cd, SYSTEM SENSOR, SR SERIES. CEILING MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 16/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 16/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 16/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED WITH-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 16/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED WITH-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 16/30/75/110cd, SYSTEM SENSOR, L-SERIES. THE SENSOR SENSOR, L-SERIES. ADVANCE SERIES.	(2)	DETECTOR AND BASE, SILENT KNIGHT	SK-PHOTO-W	7272-0559:0512
HOUSING WITH REMOTE TEST SWITCH, PROVIDE ADDRESSABLE SMOKE DETECTOR AND RELAY MODULE WITHIN HOUSING, SILENT KNIGHT SK-DUCT SERIES. SINGLE ENDED REFLECTED TYPE ADDRESSABLE BEAM SMOKE DETECTOR W/KEYED REMOTE TEST & RESET SWITCH. SILENT KNIGHT SK-BEAM-T SERIES. ADDRESSABLE FIRE ALARM MANUAL PULLSTATION, DUAL-ACTION WITH KEY RESET, MOLDED POLYCARBONATE HOUSING, SILENT KNIGHT SK-PULL SERIES. ADDRESSABLE MONITOR MODULE, SILENT KNIGHT SK-MONITOR SERIES. ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-CONTROL SERIES. ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-CONTROL SERIES. WALL MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SR SERIES. CEILING MOUNTED MULTI-CANDELA SCANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SCANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SCANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SCANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SCANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SCANDELA SCANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED MULTI-CANDELA SCANDELA SCANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED MULTI-CANDELA SCANDELA SCANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED MULTI-CANDELA SCANDELA SCANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. PARE WALL MOUNTED MULTI-CANDELA SCANDELA SCANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. PARE WALL MOUNTED MULTI-CANDELA SCANDELA SCANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. PROVE WALL MOUNTED MULTI-CANDELA SCANDELA SCA	•	DETECTOR AND BASE, 135° FIXED TEMPERATURE AND RATE-OF RISE, SILENT KNIGHT SK-HEAT SERIES. (DEVICES WITH	SK-HEAT-W	7270-0559:0511
ADDRESSABLE BEAM SMOKE DETECTOR W/ KEYED REMOTE TEST & RESET SWITCH. SILENT KNIGHT SK-BEAM-T SERIES. ADDRESSABLE FIRE ALARM MANUAL PULLSTATION, DUAL-ACTION WITH KEY RESET, MOLDED POLYCARBONATE HOUSING, SILENT KNIGHT SK-PULL SERIES. M ADDRESSABLE MONITOR MODULE, SILENT KNIGHT SK-MONITOR SERIES. SK-MONITOR ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-CONTROL SERIES. ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-CONTROL SERIES. WALL MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30775/185cd, SYSTEM SENSOR, SRL SERIES. CEILING MOUNTED MULTI-CANDELA SETTINGS OF 15/30775/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SETTINGS OF 15/30775/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SETTINGS OF 15/30775/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED WULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED WULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. SPCR 7320-1653:0201 PWP WALL MOUNTED WEATHERPROOF SPEAKER, SYSTEM SENSOR SPECTRALERT ADVANCE SERIES.	3	HOUSING WITH REMOTE TEST SWITCH, PROVIDE ADDRESSABLE SMOKE DETECTOR AND RELAY MODULE WITHIN	SK-DUCT-W	3242-0559-0518
PULLSTATION, DUAL-ACTION WITH KEY RESET, MOLDED POLYCARBONATE HOUSING, SILENT KNIGHT SK-PULL SERIES. MADRESSABLE MONITOR MODULE, SILENT KNIGHT SK-MONITOR SERIES. ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-CONTROL SERIES. ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-CONTROL SERIES. WALL MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SRL SERIES. CEILING MOUNTED MULTI-CANDELA STROBE STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. CEILING MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED WEATHERPROOF SPEAKER, SYSTEM SENSOR SPECTRALERT ADVANCE SERIES.	∳	ADDRESSABLE BEAM SMOKE DETECTOR W/KEYED REMOTE TEST & RESET SWITCH.	SK-BEAM-T	7260-0559:0148
SILENT KNIGHT SK-MONITOR SERIÉS. ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-CONTROL SERIES. WALL MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SRL SERIES. CEILING MOUNTED MULTI-CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. CEILING MOUNTED MULTI-CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED WEATHERPROOF SPEAKER, SYSTEM SENSOR SPECTRALERT ADVANCE SERIES. SPEN SPRK 7320-1653:0201	□Р	PULLSTATION, DUAL-ACTION WITH KEY RESET, MOLDED POLYCARBONATE	SK-PULL-DA	7150-0559:0161
SILENT KNIGHT SK-CONTROL SERIES. WALL MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SRL SERIES. CEILING MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED WALTHERPROOF SPEAKER, SYSTEM SENSOR SPECTRALERT ADVANCE SERIES. SRL 7125-1653:0504 T125-1653:0504 T125-1653:0504 T125-1653:0504 SPSRL T320-1653:0505 SPSRL T320-1653:0505 SPCRL T320-1653:0201	M	· · · · · · · · · · · · · · · · · · ·	SK-MONITOR	7300-0559:0155
WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SRL SERIES. CEILING MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED WEATHERPROOF SPEAKER, SYSTEM SENSOR SPECTRALERT ADVANCE SERIES. FIND OF LINE DEVICE	C	,	SK-CONTROL	7300-0559:0155
STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM SENSOR, SCR SERIES. WALL MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED WEATHERPROOF SPEAKER, SYSTEM SENSOR SPECTRALERT ADVANCE SERIES. END OF LINE DEVICE	¤	WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM	SRL	7125-1653:0504
SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED WEATHERPROOF SPEAKER, SYSTEM SENSOR SPECTRALERT ADVANCE SERIES. END OF LINE DEVICE.	Χc	STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/185cd, SYSTEM	SCR	7125-1653:0186
SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd, SYSTEM SENSOR, L-SERIES. WALL MOUNTED WEATHERPROOF SPEAKER, SYSTEM SENSOR SPECTRALERT ADVANCE SERIES. END OF LINE DEVICE	∇	SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd,	SPSRL	7320-1653:0505
SPEAKER, SYSTEM SENSOR SPECTRALERT ADVANCE SERIES.	\ \ \ \ \	SPEAKER/STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 15/30/75/110cd,	SPCRL	7320-1653:0505
EOL END OF LINE DEVICE.	∇ _{WP}	SPEAKER, SYSTEM SENSOR SPECTRALERT	SPRK	7320-1653:0201
	EOL	END OF LINE DEVICE.		

FIRE ALARM GENERAL NOTES 1. WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE

2. WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN

ACCORDANCE WITH 3-310-8, T24/CEC (I.E. THHW OR EQUAL).

3. UNDER GROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRES APPROVED FOR WET LOCATION.

4. ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS. MINIMUM CONDUIT SIZE SHALL BE 3/4." 5. THE CONDUIT AND WIRE SHOWN ON THESE PLANS ARE SHOWN

DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE

FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE PROVIDED AS REQUIRED BY THE PROJECT INSPECTOR OF RECORD. 6. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF THROUGH PENETRATION FIRE-STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.

7. ALL DEVICES SHALL BE "CSFM" LISTED.

8. EXTERIOR DEVICES SHALL BE LISTED FOR EXTERIOR USE BY "CSFM."

9. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15DBA ABOVE THE AVERAGE SOUND LEVEL.

SOUND LEVEL OF NOT LESS THAN 75DBA AT 10 FEET OR MORE THAN 110DBA

AT THE MINIMUM HEARING DISTANCES FROM THE AUDIBLE APPLIANCE. 11. WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE.

10. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC SHALL HAVE A

12. APPROVED BY THE "DIVISION OF THE STATE ARCHITECT/OFFICE OF REGULATION SERVICES." CONTRACTOR SHALL PROVIDE COPIES OF APPROVED PLANS TO THE PROJECT INSPECTOR OF RECORD PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO PURCHASE FOR REVIEW. THE FIRE PROTECTION SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED TO AND RECEIVED BY THE ENGINEER OF RECORD.

13. FINAL ALARM TEST SHALL BE WITNESSED BY THE DSA INSPECTOR OF RECORD (IOR). BOTH THE DSA INSPECTOR OF RECORD (IOR) AND THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING BY THE FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.

14. POWER SERVICE SHALL BE ON A DEDICATED, 120V BRANCH CIRCUIT, WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL."

15. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUJS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.

16. EXISTING FIRE ALARM SYSTEM SHALL REMAIN ACTIVE UNTIL NEW FIRE ALARM SYSTEM IS OPERATIONAL: EXISTING FIELD DEVICES AND FACP SHALL REMAIN IN PLACE UNTIL NEW FIELD DEVICES ARE IN PLACE AND NEW WIRING HAS BEEN HOMERAN TO NEW LOCATION OF FACP. CONTRACTOR SHALL COORDINATE WITH SCHOOL DISTRICT TO PROVIDE AN APPROVED 24 HOUR FIRE WATCH UNTIL NEW FIRE ALARM SYSTEM IS OPERATIONAL.

SYMBOLS & ABBREVIATIONS SYMBOLS

MANUAL PULL STATION BELL (GONG) STROBE ONLY FACP FIRE ALARM CONTROL PANEL STROBE ONLY (CEILING MOUNTED) RPS REMOTE POWER SUPPLY (DSA STAMP AREA) AMP DIGITAL AUDIO AMPLIFIER SPEAKER ONLY EOL END OF LINE SPEAKER/STROBE JUNCTION BOX - CEILING/WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES SPEAKER/STROBE PULLBOX (CEILING MOUNTED) CONDUIT - HOME RUN TO PANEL, ■ STROBE ONLY TERMINAL CABINET, ETC. AS INDICATED STROBE ONLY (CEILING MOUNTED) INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT

ACCORDING TO SPECIFICATIONS AND HORN ONLY APPLICABLE CODE. - CROSS HATCHES WITH NUMBER HORN/STROBE ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG. HORN/STROBE ---- CONDUIT - EXISTING (CEILING MOUNTED) CONDUIT - CONCEALED IN WALLS OR CEILING.

HEAT DETECTOR
(ABOVE ACCESSIBLE CEILING) CONDUIT CONTINUATION. ROOM NUMBER. (2) SMOKE DETECTOR MULTI-CRITERIA SMOKE & CO² DETECTOR

SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME DUCT SMOKE DETECTOR DETAIL OR SECTION DESIGNATION.

---- CONDUIT - IN OR BELOW FLOOR: 3/4"C MIN.

ABBREVIATIONS

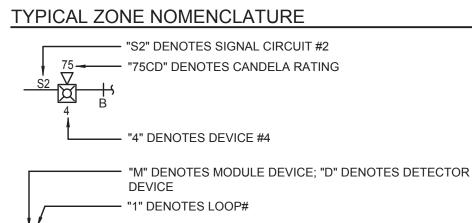
HEAT DETECTOR

ARCH. ARCHITECT FSD FIRE SMOKE DAMPER AWG AMERICAN WIRE INITIATING DEVICE GAUGE BKR BREAKER NEW CONDUIT NOTIFICATION APPLIANCE CONDUIT ONLY CB CIRCUIT BREAKER NIC NOT IN CONTRACT CKT CIRCUIT NO NUMBER CLG CEILING SLC SIGNALING LINE CIRCUITS **EXISTING** TYP TYPICAL

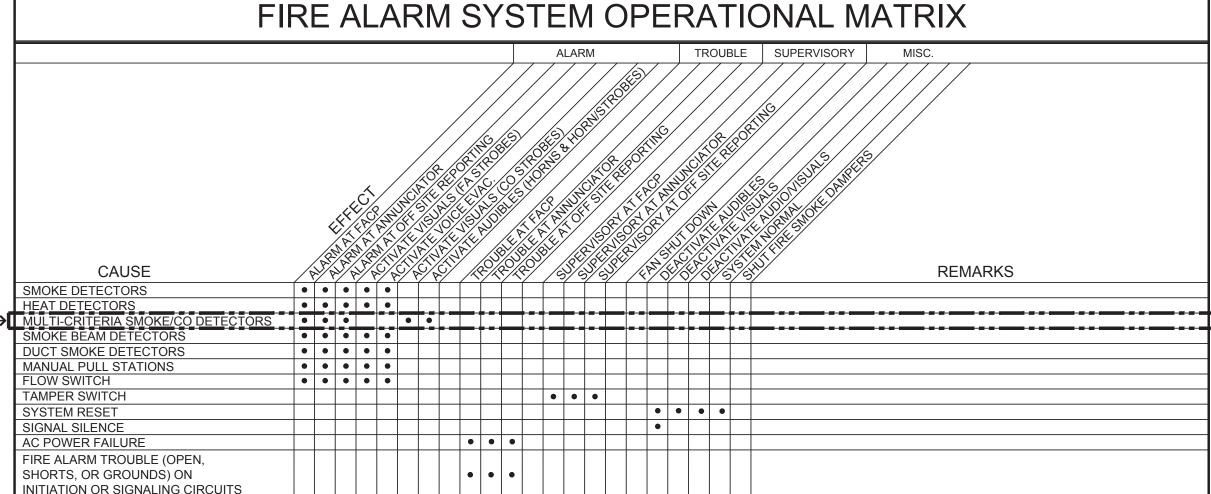
END OF LINE UON UNLESS OTHERWISE FIRE ALARM FACP FIRE ALARM WP WEATHERPROOF CONTROL PANEL

FBO FURNISHED BY OTHERS

M1-5 ─ "5" DENOTES DEVICE #5



CROSSHATCH INDICATES NUMBER OF WIRES REQUIRED SUBSCRIPT LETTER INDICATES TYPE OF CIRCUIT. SEE GENERAL NOTES THIS SHEET FOR NUMBER & TYPE OF WIRES AND CIRCUIT TYPE.



PROJECT DESCRIPTION

FIRE ALARM SYSTEM REPLACEMENT FOR EXISTING CAMPUS TO MEET CURRENT CODE REQUIREMENTS. THE INTENT OF THE PROJECT IS TO REPLACE EXISTING DETERIORATED FIRE ALARM SYSTEM WITH NEW AUTOMATIC FIRE ALARM SYSTEM AND EM/VOICE EVACUATION

SYSTEM DESCRIPTION: SLC = CLASS B / STYLE A IDC = CLASS B / STYLE B NAC = CLASS B / STYLE Y

FIRE ALARM SYSTEM DESIGN BY: NAJIB ANWARY

EQUIPMENT |

AURUM CONSULTING

MONTEREY BAY, INC.

60 Garden Court • Suite 210 • Monterey, CA 93940 T.831.646.3330 • F.831.646.3336 • www.acemb.com

REVISIONS TO FACP OR PREVIOUS -TO NEXT ADDRESSABLE ADDRESSABLE DEVICE IN DEVICE IN THE SAME THE SAME LOOP —

DETECTOR MOUNTING DETAIL

TYPICAL DETECTOR WIRING DIAGRAM 4" OCTAGON BOX— CABLE, TYP

FA0.1

DRAWN BY:

CHECKED BY:

SFA JOB NO:

03/07/2022

YMBOLS, MATRIX,

(ABOVE CEILING)

UNDER ROOF OR UNDER FLOOR — ← ACCESSIBLE CEILING SPACE → **DETECTOR MOUNTING DETAIL**

TO FACP OR PREVIOUS

THE SAME LOOP —

ADDRESSABLE DEVICE IN

4" OCTAGON BOX ——

CONCEALED CONDUIT

SPEAKER/STROBE OUTLETS

SHALL BE RECESSED 2-GANG

BOX WITH SINGLE GANG RING.

(WHERE POSSIBLE) ----

TYPICAL SPEAKER/STROBE WIRING DIAGRAM

+96" MAX.

+80" MIN.

SPEAKER/STROBE INSTALLATION DETAIL

~WALL-

FINISHED FLOOR

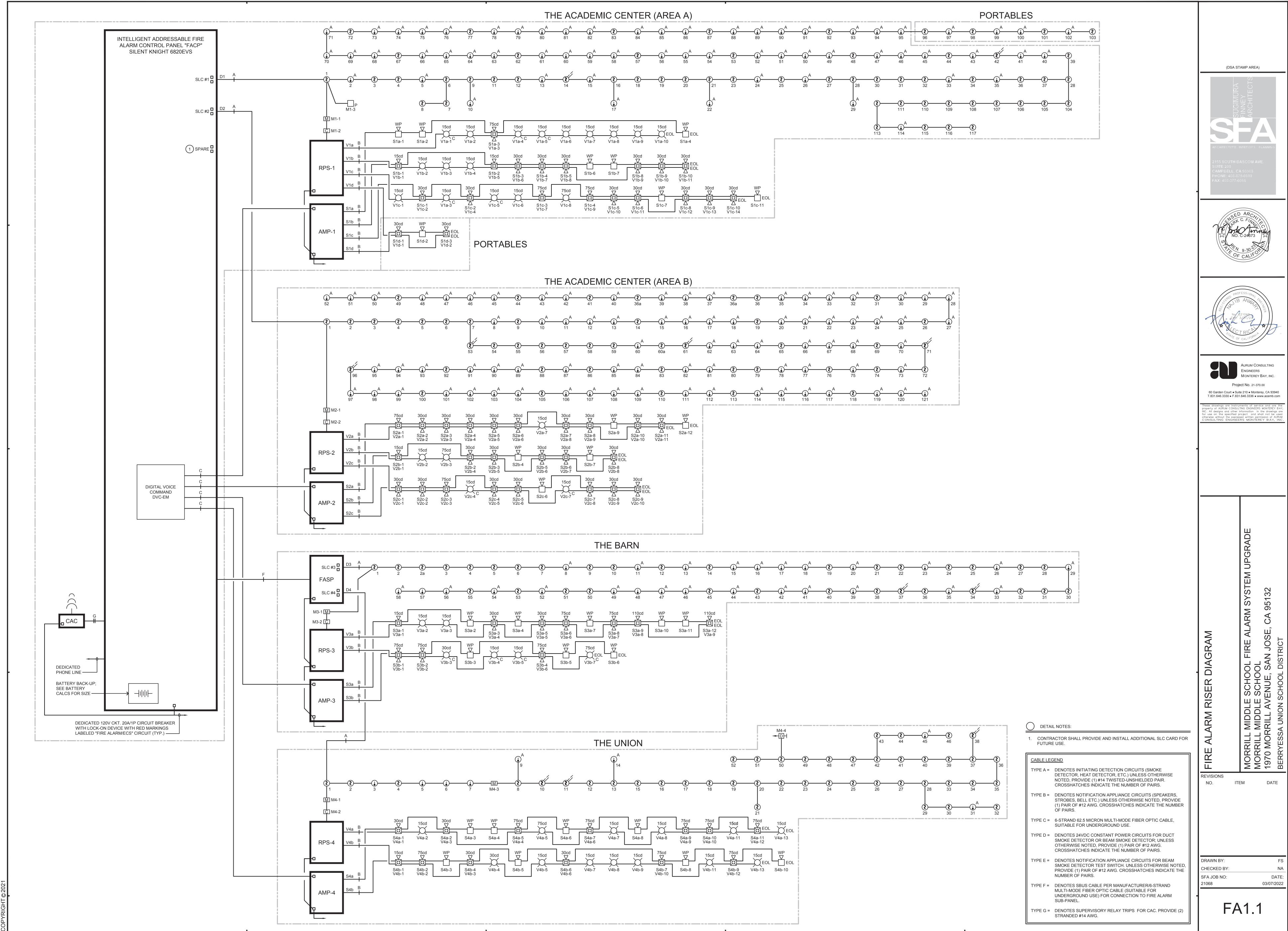
DETECTOR

TYPICAL DETECTOR WIRING DIAGRAM

---TO NEXT ADDRESSABLE

DEVICE IN THE SAME

NO SCALE



	VOI	TAGE DROP CALCS	•
	SPEAKER CIRCUIT S1a al Speaker Voltage (25 or 70) 25	VISUAL CIRCUIT V2c	VISUAL CIRCUIT V1a DEVICE # 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th
Total Circuit Current in amps 0,280 Wire Ohm's Total Circuit Total Circuit Power 7.000 Gauge Per 1000 Total Circuit Distance from source to 1st device 50 12 1.98 Distance from source to 1st device	20	GAUGE WIRE 12	GAUGE WIRE 12 12 12 12 12 12 12 12 12 12 12 12 12
Number Power device Current Device Source Drop Device 1 0.500 30 0.020 24.97 0.033 0.13% Device 1 Device 2 0.500 115 0.020 24.85 0.152 0.61% Device 2 Device 3 0.500 35 0.020 24.82 0.185 0.74% Device 3 Device 4 2.000 30 0.080 24.79 0.211 0.84% Device 4 Device 5 0.500 30 0.020 24.77 0.228 0.91% END	ber Power device Current Device source Drop 1 2.000 50 0.080 24.95 0.051 0.21% 2 2.000 67 0.080 24.90 0.099 0.40% 3 0.500 86 0.020 24.87 0.133 0.53% 4 2.000 160 0.080 24.82 0.184 0.74%	TOTAL CIRCUIT AMPS = 0.684 WIRE RESIS. CIRC. FORMULA SIZE /M FT. MILS. TOTAL VOLT DROP = 0.36 10 1.29 10380 I * FEET * 21.6 12 1.59 6530 C.M. CKT VOLTAGE = 20.4 14 3.19 4110	TOTAL CIRCUIT AMPS = 0.567
Device 6 0.500 30 0.020 24.76 0.242 0.97% END	0.000 24.82 0.184 0.74%	16 5.08 2580	16 5.08 2580
END 0.000 24.74 0.256 1.02% END END 0.000 24.74 0.256 1.02% END END 0.000 24.74 0.256 1.02% END Totals 7.000 330 End of Line Voltage 24.74 Totals	0.000 24.82 0.184 0.74% 0.000 24.82 0.184 0.74% 0.000 24.82 0.184 0.74% 0.000 24.82 0.184 0.74% 6.500 363 End of Line Voltage 24.82	GAUGE WIRE 12	DEVICE # 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th GAUGE WIRE 12 <td< td=""></td<>
Totals Voltage Totals Voltage Totals Voltage Totals Voltage Totals Voltage Totals Current Distance Drop Current Distance Drop Current Distance Drop Current Distance Drop Current O.280 330 0.183 0.260 End of Line Voltage 24.74 End of Line Voltage 24.63 End of Line Voltage 24.82 End of Line Voltage	CIRCUIT IS WITHIN LIMITS CIRCUIT IS WITHIN LIMITS CIRCUIT IS WITHIN LIMITS	TOTAL CIRCUIT AMPS = 0.773 WIRE RESIS. CIRC. FORMULA SIZE /M FT. MILS.	VOLT. DROP @ DEV. 0.1373 0.0637 0.0369 0.0829 0.0599 0.0475 0.0396 0.0242 0.0688 0.0121 DEVICE # 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th GAUGE WIRE 12
SPEAKER CIRCUIT S2c Nominal Speaker Voltage (25 or 70) 25 Nominal Speaker Voltage 20 Minimum D	SPEAKER CIRCUIT S1b	% VOLTAGE DROP = 3.4%	VOLT. DROP @ DEV. 0.0079 0.0000
Distance from source to 1st device 50 12 1.98 Distance from Wire Gauge for balance of circuit 12 1.98 Wire Gauge Device Device previous Device At Drop from Percent Device Number Power device Current Device Source Drop Device Number Device Dev	12 1.98	GAUGE WIRE 12 12 12 12 12 12 12 12 12 12 12 12 12	12 1.59 6530 C.M.
Device 2 0.500 30 0.020 24.95 0.055 0.22% Device 3	3 0.500 35 0.020 24.72 0.282 1.13% 4 0.500 40 0.020 24.68 0.323 1.29% 5 0.500 30 0.020 24.65 0.352 1.41% 6 2.000 25 0.080 24.63 0.373 1.49% 7 2.000 60 0.080 24.59 0.407 1.63%	TOTAL VOLT DROP = 0.411 10 1.29 10380 I*FEET * 21.6	VISUAL CIRCUIT V1c DEVICE # 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th GAUGE WIRE 12
Device 9 0.500 15 0.020 24.83 0.172 0.69% Device 9 END 0.000 24.83 0.172 0.69% Device 10 END 0.000 24.83 0.172 0.69% END	10 0.500 40 0.020 24.58 0.421 1.68% 0.000 24.58 0.421 1.68%	CKT VOLTAGE = 20.4 14 3.19 4110 16 5.08 2580 % VOLTAGE DROP = 2.0%	VOLT. DROP @ DEV. 0.3242 0.1550 0.1012 0.0668 0.0616 0.0562 0.0442 0.0962 0.0335 0.0313 DEVICE # 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th GAUGE WIRE 12
Totals 6.000 290 End of Line Voltage 24.83 Point to Point Method End of Line Method Load Centering Method CIRCUIT IS WITHIN LIMITS CIRCUIT IS WITHIN LIMITS CIRCUIT IS WITHIN LIMITS Totals Voltage Totals Voltage Totals Totals	8.000	VISUAL CIRCUIT V4a DEVICE # 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th GAUGE WIRE 12	TOTAL AMPS@DEV. 0.252 0.189 0.126 0.063 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Percent Drop 0.69% Percent Drop 1.10% Percent Drop 0.55% SPEAKER CIRCUIT S3a	ent Distance Drop Current Distance Drop Current Distance Drop 20 485 0.42 0.320 485 0.615 0.320 485 0.307 Line Voltage 24.58 End of Line Voltage 24.39 End of Line Voltage 24.69 Percent Drop 1.68% Percent Drop 2.46% Percent Drop 1.23% SPEAKER CIRCUIT S1c	VOLT. DROP @ DEV. 0.1005 0.1100 0.0600 0.1675 0.1219 0.1250 0.0346 0.0635 0.0578 0.0273 DEVICE # 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th GAUGE WIRE 12	12 1.59 6530 C.M.
Minimum Device Voltage 20 Minimum Device Voltage Total Circuit Current in amps 0.480 Wire Ohm's Total Circuit Power 12.000 Gauge Per 1000 Total Circuit Distance from source to 1st device 50 12 1.98 Distance from Vire Gauge for balance of circuit 12 1.98 Wire Gauge for Calculated Voltage	m Device Voltage	TOTAL AMPS@DEV. 0.223 0.15 0.043 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	VISUAL CIRCUIT V1d DEVICE #
Device Device previous Device At Drop from Percent Device Number Power device Current Device source Drop Device 1 0.500 20 0.020 24.96 0.038 0.15% Device 1 Device 2 2.000 80 0.080 24.82 0.184 0.73% Device 2 Device 3 0.500 25 0.020 24.78 0.221 0.89% Device 3 Device 4 0.500 30 0.020 24.74 0.264 1.06% Device 4 Device 5 0.500 30 0.020 24.70 0.305 1.22% Device 5	Device Device Previous Device At Drop from Percent	12 1.59 6530 C.M.	TOTAL AMPS@DEV. 0.126 0.063 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Device 6 0.500 25 0.020 24.66 0.336 1.34% Device 6 Device 7 2.000 30 0.080 24.63 0.372 1.49% Device 7 Device 8 0.500 45 0.020 24.59 0.411 1.64% Device 8 Device 9 0.500 70 0.020 24.53 0.466 1.87% Device 9 Device 10 2.000 20 0.080 24.52 0.481 1.92% Device 10 Device 11 2.000 80 0.080 24.49 0.512 2.05% Device 11 Device 12 0.500 40 0.020 24.48 0.516 2.06% END	6 0.500 50 0.020 24.45 0.553 2.21% 7 2.000 30 0.080 24.42 0.579 2.32% 8 0.500 30 0.020 24.40 0.596 2.38% 9 0.500 30 0.020 24.39 0.610 2.44% 10 0.500 30 0.020 24.38 0.622 2.49% 11 2.000 30 0.080 24.37 0.632 2.53%	AMPS OF DEVICE 0.043 0.107 0.063 0.063 0.043 0.063 0.043 0.043 0.043 0.043 0.107	TOTAL VOLT DROP = 0.193
	0.000 24.37 0.632 2.53%		VISUAL CIRCUIT V2a DEVICE # 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th GAUGE WIRE 12
Totals Voltage Totals Voltage Totals Voltage Totals Voltage Totals Current Distance Drop Current Distance Drop Current Distance Drop Current Distance Drop Current O.480 495 0.470 0.340 End of Line Voltage 24.48 End of Line Voltage 24.06 End of Line Voltage 24.53 End of Line	Als	VOLT. DROP @ DEV. 0.0287 0.0273 0.0021 0.0000	TOTAL AMPS@DEV. 0.717 0.61 0.547 0.484 0.421 0.358 0.295 0.252 0.189 0.126 VOLT. DROP @ DEV. 0.1897 0.0404 0.0543 0.0480 0.0418 0.0355 0.0342 0.0458 0.0188 0.0271 DEVICE # 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th GAUGE WIRE 12 12 12 12 12 12 12 12 12 12 12 12 DISTANCE (FT) 30 AMPS OF DEVICE 0.063
Minimum Device Voltage 20 Total Circuit Current in amps 0.300 Wire Ohm's Total Circuit Power 7.500 Gauge Per 1000 Total Circuit Power Total Circuit Power	SPEAKER CIRCUIT S1d 25 (25 or 70) 25 (27 or 70) 20 (27 or 70) (27 or 70) (28 or 70) (27 or 70) (27 or 70) (28 o	TOTAL VOLT DROP = 0.675	TOTAL AMPS@DEV. 0.063 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	ber Power device Current Device source Drop 1 0.500 450 0.020 24.79 0.214 0.86% 2 2.000 15 0.080 24.78 0.220 0.88%		TOTAL VOLT DROP = 0.542
Device 3 2.000 100 0.080 24.80 0.200 0.80% Device 3	3 0.500 15 0.020 24.78 0.221 0.88%		VISUAL CIRCUIT V2b DEVICE # 1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th GAUGE WIRE 12
END 0.000 24.72 0.280 1.12% END	0.000 24.78 0.221 0.88% 0.000 24.78 0.221 0.88% 0.000 24.78 0.221 0.88% 0.000 24.78 0.221 0.88% 0.000 24.78 0.221 0.88% 0.000 24.78 0.221 0.88% 0.000 24.78 0.221 0.88%		AMPS OF DEVICE 0.043 0.043 0.107 0.063 0.0
	Drag a Drag a Drag a Drag		TOTAL VOLT DROP = 0.308
0.300 345 0.28 0.300 345 0.410 0.300 345 0.205 End of Line Voltage 24.72 End of Line Voltage 24.59 End of Line Voltage 24.80 Percent Drop 1.12% Percent Drop 1.64% Percent Drop 0.82% SPEAKER CIRCUIT S4a Nominal Speaker Voltage (25 or 70) 25 Nominal Speaker Voltage	20		
Total Circuit Current in amps 0.460 Wire Ohm's Total Circuit Power 11.500 Gauge Per 1000 Total Circuit Power Distance from source to 1st device 50 12 1.98 Distance from Calculated Voltage Device Device previous Device At Drop from Percent Total Circuit	Marco Device Voltage 20		
Number Power device Current Device source Drop Number Device 1 0.500 30 0.020 24.95 0.055 0.22% Device 1 Device 2 0.500 55 0.020 24.85 0.150 0.60% Device 2 Device 3 2.000 10 0.080 24.83 0.167 0.67% Device 3 Device 4 2.000 60 0.080 24.75 0.248 0.99% Device 4 Device 5 0.500 20 0.020 24.73 0.268 1.07% Device 5 Device 6 2.000 55 0.080 24.68 0.321 1.28% Device 6	1 0.500 80 0.020 24.83 0.171 0.68% 2 0.500 17 0.020 24.79 0.206 0.82% 3 0.500 30 0.020 24.73 0.265 1.06% 4 0.500 30 0.020 24.68 0.323 1.29% 5 0.500 30 0.020 24.62 0.377 1.51%		
Device 7 0.500 50 0.020 24.65 0.352 1.41% Device 7	7 0.500 75 0.020 24.45 0.554 2.22% 8 0.500 30 0.020 24.40 0.602 2.41% 9 2.000 30 0.080 24.35 0.647 2.59% 10 0.500 30 0.020 24.32 0.682 2.73% 11 5.000 30 0.200 24.28 0.716 2.86%		
END 0.000 24.60 0.396 1.59% END END 0.000 24.60 0.396 1.59% END Totals 11.500 470 End of Line Voltage 24.60 Totals Point to Point Method End of Line Method Load Centering Method Point Load Centering Method	0.000 24.27 0.725 2.90%		
0.460 470 0.460 470 0.856 0.460 470 0.428 End of Line Voltage 24.60 End of Line Voltage 24.14 End of Line Voltage 24.57	ent Distance Drop Current Distance Drop Current Distance Drop		

		AMP-1 (THE	ACADEMIC CENTER	R AREA A)				QTY	PRODUCT	F	IRE ALARM CONTROL PANEL "FACP" DESCRIPTION	STANDBY		ALARM	
QTY	MODEL No.	DEV	ICE DESCRIPTION	STANI EACH	DBY TOTAL	ALAR EACH	M TOTAL	1	ID 6820EVS	FIRE ALARM CO		EACH 0.1900	TOTAL 0.1900	EACH 0.2500	TO ⁻
1	EVS-50W S1a	SILENT KNIGHT DIGITA SPEAKER CIRCUIT #1:		0.1000 0.0000	0.1000 0.0000	0.5800 0.2600	0.5800 0.2600	<u> </u>	00202.70	PANEL STANDE	BY CURRENT		0.1900		0.2
1	S1b S1c	SPEAKER CIRCUIT #10 SPEAKER CIRCUIT #10	С	0.0000	0.0000	0.3200	0.3200				FIELD DEVICES				
1	S1d	PANEL STANDBY CUR	RRENT	0.0000	0.0000	0.1200	0.1200	QTY	PRODUCT ID		DESCRIPTION	STANDBY EACH	TOTAL	ALARM EACH	TO
		PANEL ALARM CURRE		STEM CURRENT			1.6200	168 174	SK-PHOTO-W SK-HEAT-W	ADDRESSABLE	SMOKE DETECTOR HEAT DETECTOR	0.0002 0.0002	0.0336	0.0002	0.03
		DESCRIPTION TOTAL STANDBY CUR		STEW CORRENT	STANDBY 0.1000		ALARM	11 1	SK-DUCT-W SK-BEAM-T SK-PULL-DA	ADDRESSABLE	DUCT SMOKE DETECTOR BEAM SMOKE DETECTOR MANUAL PULL STATION	0.0000 0.0020 0.0004	0.0000 0.0020 0.0004	0.0012 0.0085 0.0004	0.0
		X 24 HOUR STANDBY TOTAL ALARM CURRE			2.4000		1.6200	5 4	SK-MONITOR SK-CONTROL	ADDRESSABLE	MONITOR MODULE CONTROL MODULE	0.0004 0.0004 0.0004	0.0020	0.0004 0.0004 0.0004	0.00
		15 MINUTES OF ALARI TOTAL BATTERY REQ	M (X .25)				0.4050 2.8050	<u> </u>	0.0000000000000000000000000000000000000	DESCRIPTION CONTROL PANI			STANDBY 0.1900		ALA
		SAFETY MARGIN (20% BATTERY SUPPLIED (2	-				3.3660 18AH			FIELD DEVICES TOTAL STANDE			0.0744 0.2644		
		AMPI IFIFR WAT	TAGE CALCULATION	N FOR AMP-1						X 24 HOUR STA	CURRENT		6.3444		
	QTY	MODEL No.	DEVICE DESC		EACI	н					Y REQUIREMENT				
	1		50 WATT SILENT KNIGHT DIGITA WATTAGE OF SPEAKERS CONN		50.000 6.5000					BATTERY SUPF					(2)
	1	S1c	WATTAGE OF SPEAKERS CONN WATTAGE OF SPEAKERS CONN	NECTED	8.0000 8.5000						RPS-1 (THE ACADEMIC CENTE				
	1 TOTAL WATTAG		WATTAGE OF SPEAKERS CON	NECTED	3.0000 24.000			QTY	MODE		DEVICE DESCRIPTION	EACH	TOTAL	EACH	LARM TOT
		AMP-2 (THE	ACADEMIC CENTER	R AREA B)				1 1	5895 V1 V1	а	6 AMP SILENT KNIGHT POWER SUPPLY VISUAL CIRCUIT #1a VISUAL CIRCUIT #1b	0.0400 0.0000 0.0000	0.0400 0.0000 0.0000	0.1600 0.5670 0.5930	0.16 0.56 0.59
QTY	MODEL No.	DEV	ICE DESCRIPTION	STANI	DBY TOTAL	ALAR EACH	M TOTAL	1 1	V1 V1 V1	c	VISUAL CIRCUIT #16 VISUAL CIRCUIT #16 VISUAL CIRCUIT #1d	0.0000 0.0000 0.0000	0.0000	0.9800 0.1260	0.59
1	EVS-50W S2a	SILENT KNIGHT DIGIT. SPEAKER CIRCUIT #26		0.1000 0.0000	0.1000 0.0000	0.5800 0.5400	0.5800 0.5400				PANEL STANDBY CURRENT PANEL ALARM CURRENT		0.0400		2.42
1 1	S2b S2c	SPEAKER CIRCUIT #20 SPEAKER CIRCUIT #20		0.0000	0.0000	0.2800	0.2800					SYSTEM CURREN	T		
1	SPARE	PANEL STANDBY CUR		0.0000	0.0000	0.0000	0.0000				DESCRIPTION TOTAL STANDBY CURRENT (A)		STANDBY 0.0400		ALAF
		PANEL ALARM CURRE		OTEM CURRENT			1.6400				X 24 HOUR STANDBY TOTAL ALARM CURRENT (B)		0.9600		2
		DESCRIPTION TOTAL STANDBY CUR		STEM CURRENT	STANDBY 0.1000		ALARM				15 MINUTES OF ALARM (X .25) TOTAL BATTERY REQUIREMENT (A+B)				1
		X 24 HOUR STANDBY TOTAL ALARM CURRE	. ,		2.4000		1.6400				SAFETY MARGIN (20%) BATTERY SUPPLIED				(2) 12
		15 MINUTES OF ALARI TOTAL BATTERY REQ	M (X .25)				0.4100 2.8100				RPS-2 (THE ACADEMIC CENTE	R AREA B)			
		SAFETY MARGIN (20% BATTERY SUPPLIED (2	<u>, </u>				3.3720 18AH	QTY	MODE		DEVICE DESCRIPTION	EACH	TANDBY TOTAL	EACH	LARM TOT
		AMPI IFIFR WAT	TAGE CALCULATION	J FOR AMP-2				1	5895 V2	?a	6 AMP SILENT KNIGHT POWER SUPPLY VISUAL CIRCUIT #2a	0.0400	0.0400	0.1600	0.16
	QTY	MODEL No.	DEVICE DESC		EACI	н		1 1	V2 V2 SPA	?c	VISUAL CIRCUIT #2b VISUAL CIRCUIT #2c SPARE	0.0000	0.0000	0.5080 0.6840 0.0000	0.50
	1		50 WATT SILENT KNIGHT DIGITA WATTAGE OF SPEAKERS CONF			00			SPA		PANEL STANDBY CURRENT PANEL ALARM CURRENT	0.0000	0.0000	0.0000	2.06
	1		WATTAGE OF SPEAKERS CONIV		7.0000 6.0000							SYSTEM CURREN	т		2.00
	1 TOTAL WATTAG		SPARE		0.0000 23.500						DESCRIPTION TOTAL STANDBY CURRENT (A)		STANDBY 0.0400		ALAF
			AMP-3 (THE BARN)								X 24 HOUR STANDBY TOTAL ALARM CURRENT (B)		0.9600		2
QTY	MODEL No.	DEV	ICE DESCRIPTION	STANI EACH	DBY TOTAL	ALAR EACH	M TOTAL				15 MINUTES OF ALARM (X .25) TOTAL BATTERY REQUIREMENT (A+B)				1
1	EVS-50W S3a	SILENT KNIGHT DIGIT. SPEAKER CIRCUIT #3		0.1000 0.0000	0.1000 0.0000	0.5800 0.3000	0.5800 0.3000				SAFETY MARGIN (20%) BATTERY SUPPLIED				(2) 12\
1	S3b SPARE	SPEAKER CIRCUIT #3I SPARE	b	0.0000 0.0000	0.0000 0.0000	0.4800 0.0000	0.4800 0.0000				RPS-3 (THE BARN)				
1	SPARE	SPARE PANEL STANDBY CUR		0.0000	0.0000 0.1000	0.0000	0.0000	QTY	MODE	EL No.	DEVICE DESCRIPTION	S ⁻ EACH	TANDBY TOTAL	EACH	LARM TOTA
		PANEL ALARM CURRE		STEM CURRENT			1.3600	1	5895 V3	3a	6 AMP SILENT KNIGHT POWER SUPPLY VISUAL CIRCUIT #3a	0.0400	0.0400	0.1600	0.16
		DESCRIPTION TOTAL STANDBY CUR		STEW CORRENT	STANDBY 0.1000		ALARM	1 1	V3 SPA SPA	RE	VISUAL CIRCUIT #3b SPARE SPARE	0.0000	0.0000	0.7170	0.71
		X 24 HOUR STANDBY TOTAL ALARM CURRE	. ,		2.4000		1.3600	1	SPA		PANEL STANDBY CURRENT PANEL ALARM CURRENT	0.0000	0.0000	0.0000	1.650
		15 MINUTES OF ALARI TOTAL BATTERY REQ	M (X .25)				0.3400 2.7400					SYSTEM CURREN	т		1.00
		SAFETY MARGIN (20% BATTERY SUPPLIED (2	·				3.2880 18AH				DESCRIPTION TOTAL STANDBY CURRENT (A)		STANDBY 0.0400		ALAF
		AMPI IFIFR WAT	TAGE CALCULATION	N FOR AMP-3							X 24 HOUR STANDBY TOTAL ALARM CURRENT (B)		0.9600		1
	QTY	MODEL No.	DEVICE DESC		EACI	н					15 MINUTES OF ALARM (X .25) TOTAL BATTERY REQUIREMENT (A+B)				0
	1 1		50 WATT SILENT KNIGHT DIGITA WATTAGE OF SPEAKERS CONN			00					SAFETY MARGIN (20%) BATTERY SUPPLIED				(2) 12\
	1	SPARE	WATTAGE OF SPEAKERS CONN SPARE	NECTED	7.5000 0.0000	0					RPS-4 (THE UNION)				
	1 TOTAL WATTAG		SPARE		0.0000 30.500			QTY	MODE	L No.	DEVICE DESCRIPTION	S' EACH	TANDBY	EACH	LARM TOTA
		A	MP-4 (THE UNION)					1	5895 V4	a	6 AMP SILENT KNIGHT POWER SUPPLY VISUAL CIRCUIT #4a	0.0400 0.0000	0.0400 0.0000	0.1600 1.0130	0.16
QTY	MODEL No.		CICE DESCRIPTION	STANI	DBY TOTAL	ALAR EACH	M TOTAL	1	V4 SPA	RE	VISUAL CIRCUIT #4b SPARE	0.0000	0.0000	0.8110	0.81
1	EVS-50W S4a	SILENT KNIGHT DIGIT. SPEAKER CIRCUIT #4		0.1000 0.0000	0.1000 0.0000	0.5800 0.4600	0.5800 0.4600	1	SPA		PANEL STANDBY CURRENT	0.0000	0.0000	0.0000	0.00
1	S4b SPARE	SPEAKER CIRCUIT #4I SPARE	b	0.0000 0.0000	0.0000 0.0000	0.4400 0.0000	0.4400 0.0000				PANEL ALARM CURRENT	SYSTEM CURREN	т		1.98
1	SPARE	SPARE PANEL STANDBY CUR		0.0000	0.0000 0.1000	0.0000	0.0000				DESCRIPTION TOTAL STANDBY CURRENT (A)	CURKEN	STANDBY 0.0400		ALAF
		PANEL ALARM CURRE		OTEM OUTE			1.4800				X 24 HOUR STANDBY TOTAL ALARM CURRENT (B)		0.9600		1
		DESCRIPTION TOTAL STANDBY CUR		STEM CURRENT	STANDBY 0.0000		ALARM				15 MINUTES OF ALARM (X .25) TOTAL BATTERY REQUIREMENT (A+B)				0
		X 24 HOUR STANDBY TOTAL ALARM CURRE			0.0000		1.4800				SAFETY MARGIN (20%) BATTERY SUPPLIED				(2) 12\
		15 MINUTES OF ALARI TOTAL BATTERY REQ	M (X .25)				0.3700 0.3700								_
		SAFETY MARGIN (20% BATTERY SUPPLIED (2	6)				0.4440 18AH								
	QTY	AMPLIFIER WAT	TAGE CALCULATION												
	QIY	MODEL No. EVS-50W	DEVICE DESC		EACI										
	1 1 1	S4a	50 WATT SILENT KNIGHT DIGITA WATTAGE OF SPEAKERS CONF WATTAGE OF SPEAKERS CONF	NECTED	11.500 11.000	10									
	1	SPARE	SPARE SPARE		0.0000	0									
	' '				27.500										

APCHITECTUPE INTEPIORS PLANNING

2155 SOUTH BASCOM AVE.
SUITE 200
CAMPBELL. CA 95003
PHONE: 403-879-6600
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RADE

MORRILL MIDDLE SCHOOL FIRE ALARM SYSTEM UPGRAD MORRILL MIDDLE SCHOOL 1970 MORRILL AVENUE, SAN JOSE, CA 95132 BERRYESSA UNION SCHOOL DISTRICT

DATE

DROP

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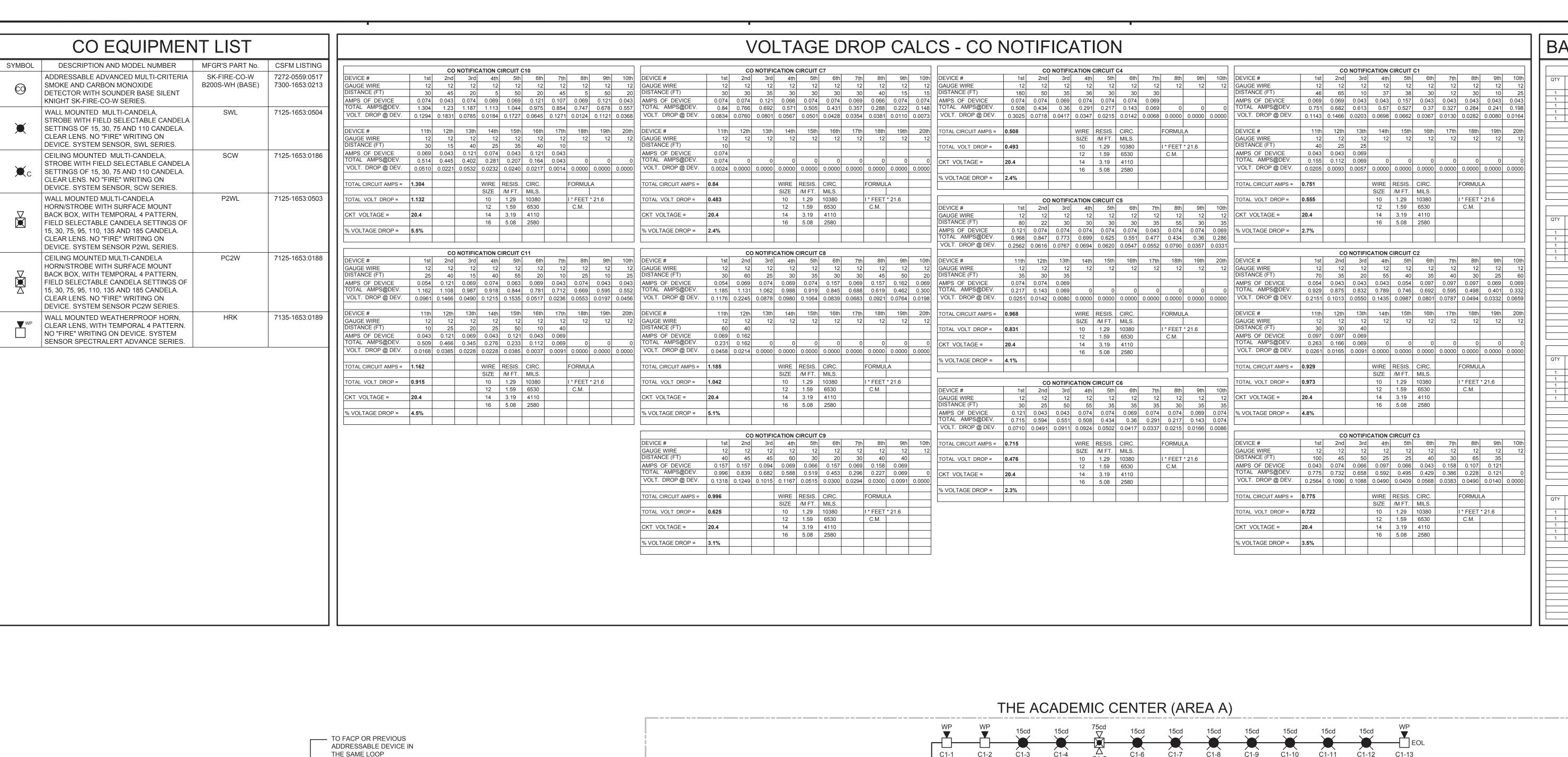
REVISIONS

DRAWN BY:

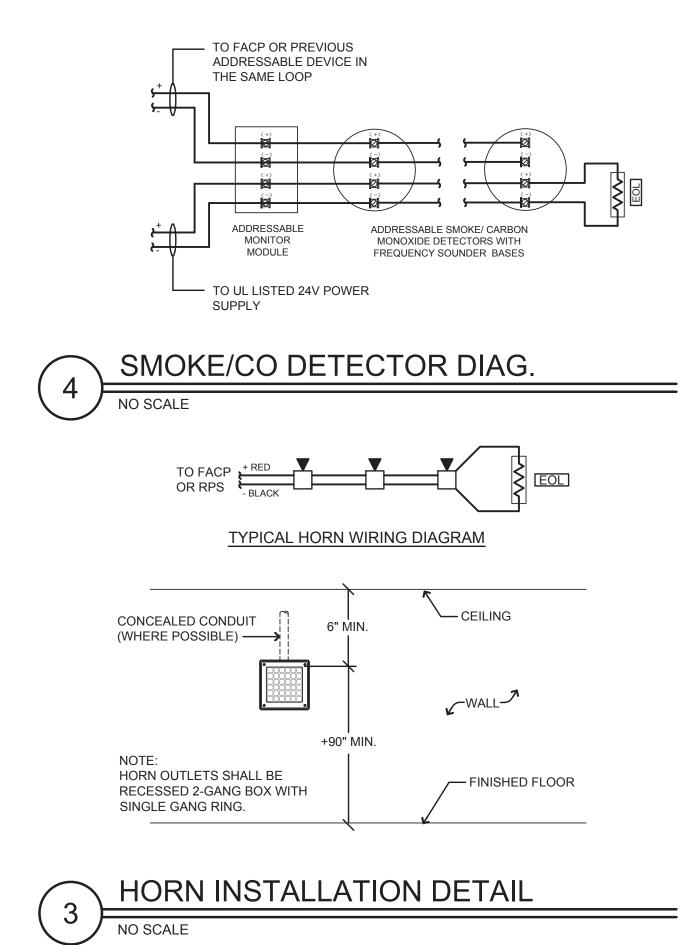
CHECKED BY:

SFA JOB NO:

DATE: 21068 03/07/20



		-171	CALCS - CO N				
	1 -						
9th 10th	OTV Lucs		RPS-A (THE ACADEMIC CENTER AF	·	NDBY		4814
12 12	QTY MOD	DEL No.	DEVICE DESCRIPTION	EACH	TOTAL	EACH	LARM TOTAL
10 25		95XL	6 AMP SILENT KNIGHT POWER SUPPLY	0.0400	0.0400	0.1600	0.1600
0.043 0.043		C1 C2	NOTIFICATION CIRCUIT #1 NOTIFICATION CIRCUIT #2	0.0000	0.0000	0.7510 0.9290	0.7510 0.9290
0.241 0.198		C3	NOTIFICATION CIRCUIT #2 NOTIFICATION CIRCUIT #3	0.0000	0.0000	0.7750	0.7750
0.0080 0.0164	1 (C4	NOTIFICATION CIRCUIT #4	0.0000	0.0000	0.5080	0.5080
19th 20th			PANEL STANDBY CURRENT PANEL ALARM CURRENT		0.0400		3.1230
12 12			PANEL ALAKWI CORNENT				3.1230
			TOTAL SYSTE	M CURRENT			1
			DESCRIPTION TOTAL STANDBY CURRENT (A)		STANDBY 0.0400		ALARM
0 0			X 24 HOUR STANDBY		0.9600		
0.0000 0.0000			TOTAL ALARM CURRENT (B)				3.123
Α			15 MINUTES OF ALARM (X .25) TOTAL BATTERY REQUIREMENT (A+B)				0.780 1.740
`			SAFETY MARGIN (20%)				2.088
21.6			BATTERY SUPPLIED				(2) 12V 7AI
			RPS-B (THE ACADEMIC CENTER AF	PFΔ R1			
	QTY MOD	DEL No.	DEVICE DESCRIPTION		NDBY	ΔΙ	LARM
			SEVICE SECONII TION	EACH	TOTAL	EACH	TOTAL
		95XL	6 AMP SILENT KNIGHT POWER SUPPLY	0.0400	0.0400	0.1600	0.1600
		C5 C6	NOTIFICATION CIRCUIT #5 NOTIFICATION CIRCUIT #6	0.0000	0.0000	0.9680 0.7150	0.9680 0.7150
	1 (C7	NOTIFICATION CIRCUIT #7	0.0000	0.0000	0.8400	0.8400
9th 10th	1 SP	PARE	SPARE STANDBY CURRENT	0.0000	0.0000	0.0000	0.0000
12 12			PANEL STANDBY CURRENT PANEL ALARM CURRENT		0.0400		2.6830
25 60							
0.069 0.069 0.401 0.332			TOTAL SYSTE	M CURRENT	L OTANDOV I		AL ADM
0.0332 0.0659			DESCRIPTION TOTAL STANDBY CURRENT (A)		STANDBY 0.0400	ALARM	
0.0002 0.0000			X 24 HOUR STANDBY		0.9600		
19th 20th			TOTAL ALARM CURRENT (B) 15 MINUTES OF ALARM (X .25)				2.683 0.670
12 12			TOTAL BATTERY REQUIREMENT (A+B)				1.630
			SAFETY MARGIN (20%)				1.956
0 0			BATTERY SUPPLIED				(2) 12V 7AI
0.0000 0.0000			RPS-C (THE BARN)				
0.0000	QTY MOD	DEL No.	DEVICE DESCRIPTION	STA	NDBY	Al	LARM
A				EACH	TOTAL	EACH	TOTAL
		95XL	6 AMP SILENT KNIGHT POWER SUPPLY	0.0400	0.0400 0.0000	0.1600 1.1850	0.1600 1.1850
21.6		C8 C9	NOTIFICATION CIRCUIT #8 NOTIFICATION CIRCUIT #9	0.0000	0.0000	0.9960	0.9960
		PARE	SPARE	0.0000	0.0000	0.0000	0.0000
	1 SP	PARE	SPARE PANEL STANDBY CURRENT	0.0000	0.0000	0.0000	0.0000
			PANEL STANDBT CORRENT PANEL ALARM CURRENT		0.0400		2.3410
			DESCRIPTION TOTAL SYSTE	M CURRENT	STANDBY		ALARM
			TOTAL STANDBY CURRENT (A)		0.0400		7127 11 (17)
9th 10th			X 24 HOUR STANDBY TOTAL ALARM CURRENT (B)		0.9600		2011
12 12 35			15 MINUTES OF ALARM (X .25)				2.341 0.585
0.121			TOTAL BATTERY REQUIREMENT (A+B)				1.545
0.121 0	I I		SAFETY MARGIN (20%) BATTERY SUPPLIED				1.854 (2) 12V 7AI
0.0140 0.0000			S. C. ENT GOTT ELED				
.			RPS-D (THE UNION)				
Α	QTY MOD	DEL No.	DEVICE DESCRIPTION		NDBY		LARM
21.6	1 589	95XL	6 AMD SILENT VALIGHT DOWED CLIDDLY	EACH 0.0400	TOTAL 0.0400	0.1600	TOTAL 0.1600
		95XL C10	6 AMP SILENT KNIGHT POWER SUPPLY NOTIFICATION CIRCUIT #10	0.0400	0.0400	1.3040	1.3040
	1 (C11	NOTIFICATION CIRCUIT #11	0.0000	0.0000	1.1620	1.1620
		PARE	SPARE SPARE	0.0000	0.0000	0.0000	0.0000
	I I SP	/ UNL	PANEL STANDBY CURRENT	0.0000	0.0000	0.0000	0.0000
			PANEL ALARM CURRENT				2.6260
			TOTAL CUCT	M CURRENT			
			DESCRIPTION TOTAL SYSTE	IVI CURKENT	STANDBY		ALARM
			TOTAL STANDBY CURRENT (A)		0.0400		
			X 24 HOUR STANDBY		0.9600		0.00-
			TOTAL ALARM CURRENT (B) 15 MINUTES OF ALARM (X .25)				2.626 0.656
			TOTAL BATTERY REQUIREMENT (A+B)				1.616
			SAFETY MARGIN (20%)				1.939
			SAFETY MARGIN (20%) BATTERY SUPPLIED				1. (2) 12V



TYPICAL HORN/STROBE WIRING DIAGRAM

+80" MIN.

CONCEALED CONDUIT (WHERE POSSIBLE) ----

HORN/STROBE OUTLETS

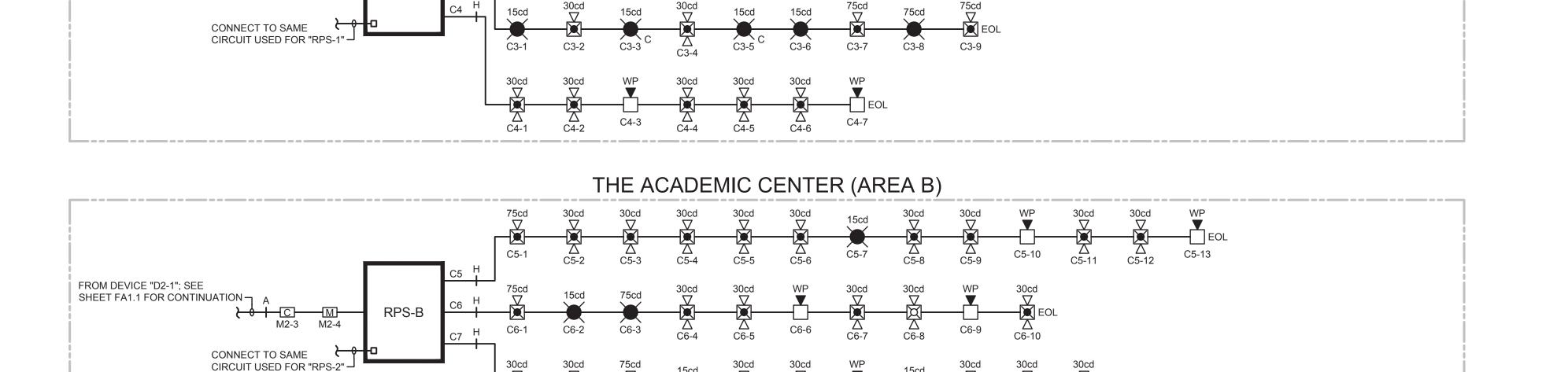
SHALL BE RECESSED 2-GANG

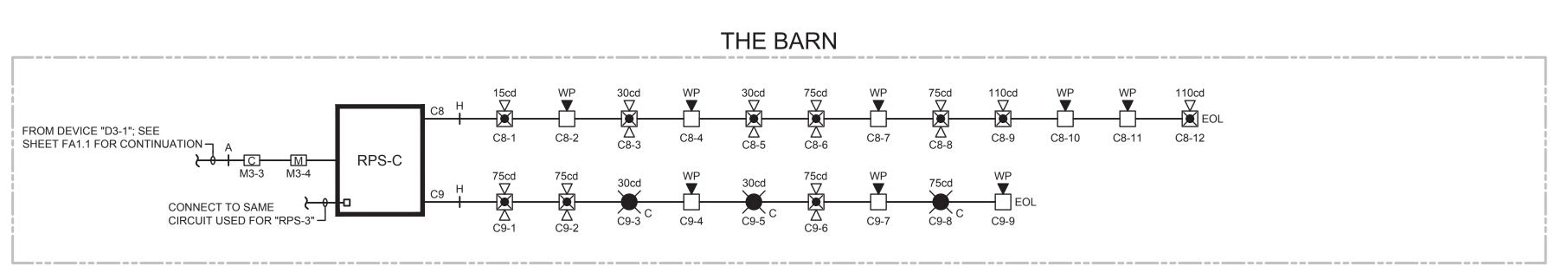
BOX WITH SINGLE GANG RING.

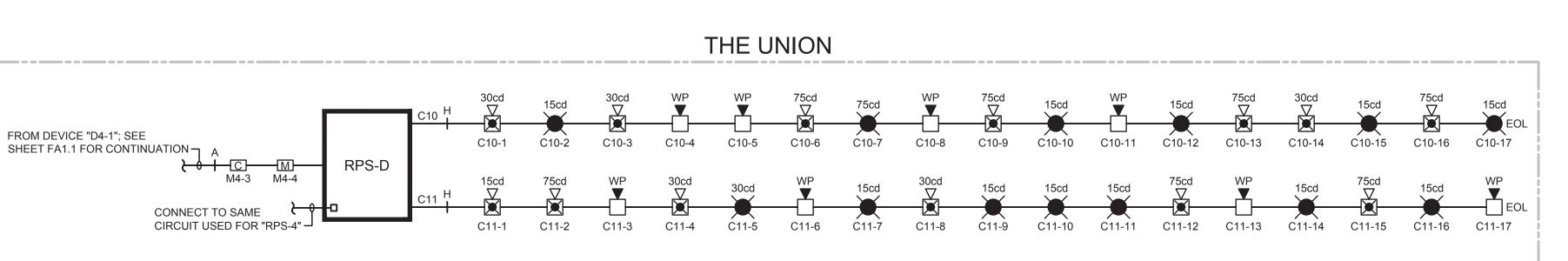
— CEILING

ر—WALL

FINISHED FLOOR







BID ALTERNATE

CABLE LEGEND	

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE H = DENOTES CARBON MONOXIDE NOTIFICATION APPLIANCE CIRCUITS (HORN, STROBES, BELL ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

DRAWN BY: CHECKED BY: SFA JOB NO: DATE: 03/07/2022

(DSA STAMP AREA)

60 Garden Court • Suite 210 • Monterey, CA 93940 T.831.646.3330 • F.831.646.3336 • www.acemb.com

r LIST, CULATIONS

EQUIPMENT |

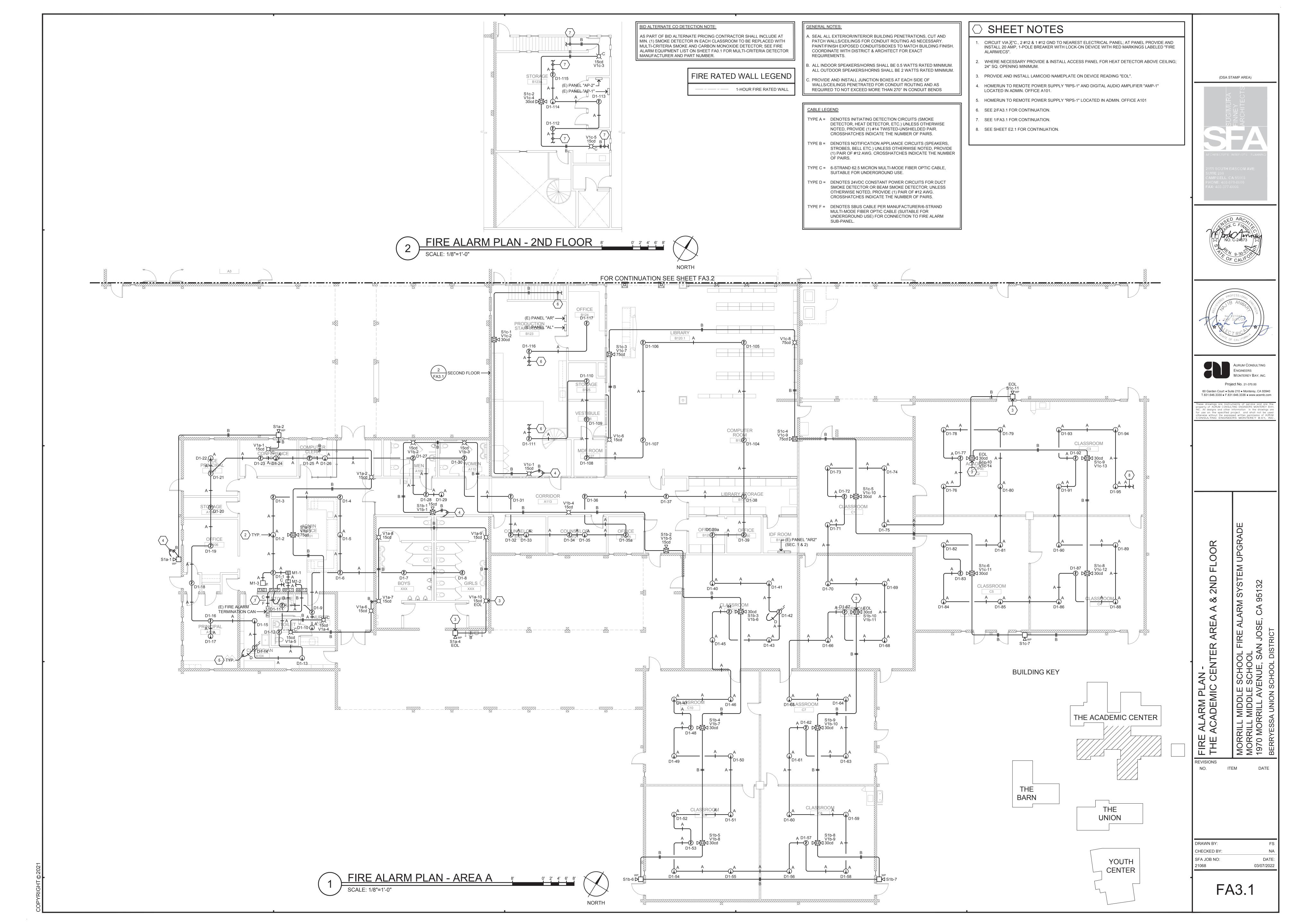
FA1.3

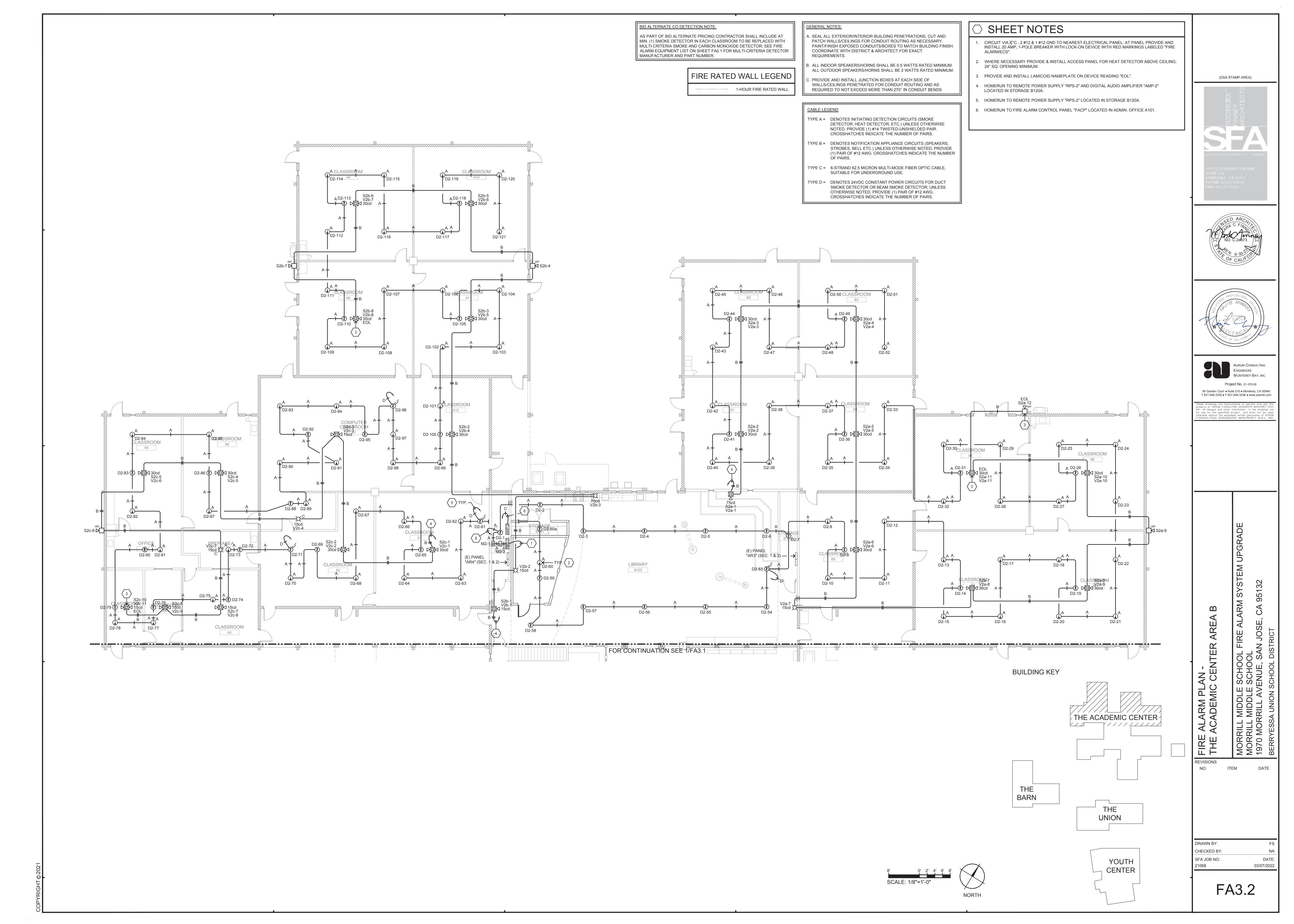
HORN/STROBE INSTALLATION DETAIL NO SCALE

FIRE ALARM RISER DIAGRAM - CO NOTIFICATION NO SCALE

FROM DEVICE "D1-1"; SEE

SHEET FA1.1 FOR CONTINUATION ¬





BID ALTERNATE CO DETECTION NOTE:

AS PART OF BID ALTERNATE PRICING CONTRACTOR SHALL INCLUDE AT MIN. (1) SMOKE DETECTOR IN EACH CLASSROOM TO BE REPLACED WITH MULTI-CRITERIA SMOKE AND CARBON MONOXIDE DETECTOR; SEE FIRE ALARM EQUIPMENT LIST ON SHEET FA0.1 FOR MULTI-CRITERIA DETECTOR MANUFACTURER AND PART NUMBER.

FIRE RATED WALL LEGEND

1-HOUR FIRE RATED WALL

- A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY.
 PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH.
 COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
 - B. ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM.
 ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.
- C. PROVIDE AND INSTALL JUNCTION BOXES AT EACH SIDE OF WALLS/CEILINGS PENETRATED FOR CONDUIT ROUTING AND AS REQUIRED TO NOT EXCEED MORE THAN 270° IN CONDUIT BENDS

CABLE LEGEND

GENERAL NOTES:

- TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
- TYPE B = DENOTES NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS, STROBES, BELL ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
- TYPE C = 6-STRAND 62.5 MICRON MULTI-MODE FIBER OPTIC CABLE, SUITABLE FOR UNDERGROUND USE.
- TYPE D = DENOTES 24VDC CONSTANT POWER CIRCUITS FOR DUCT SMOKE DETECTOR OR BEAM SMOKE DETECTOR; UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

○ SHEET NOTES

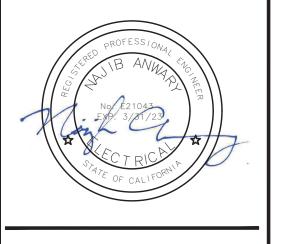
LOCATED IN ELECTRICAL ROOM D9.

- 1. CIRCUIT VIA ½"C., 2 #12 & 1 #12 GND TO NEAREST ELECTRICAL PANEL; AT PANEL PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKER WITH LOCK-ON DEVICE WITH RED MARKINGS LABELED "FIRE
- WHERE NECESSARY PROVIDE & INSTALL ACCESS PANEL FOR HEAT DETECTOR ABOVE CEILING;
 24" SQ. OPENING MINIMUM.
- 3. PROVIDE AND INSTALL LAMICOID NAMEPLATE ON DEVICE READING "EOL".
- 4. HOMERUN TO REMOTE POWER SUPPLY "RPS-3" AND DIGITAL AUDIO AMPLIFIER "AMP-3"
- 5. HOMERUN TO REMOTE POWER SUPPLY "RPS-3" LOCATED IN ELECTRICAL ROOM D9.



(DSA STAMP AREA)







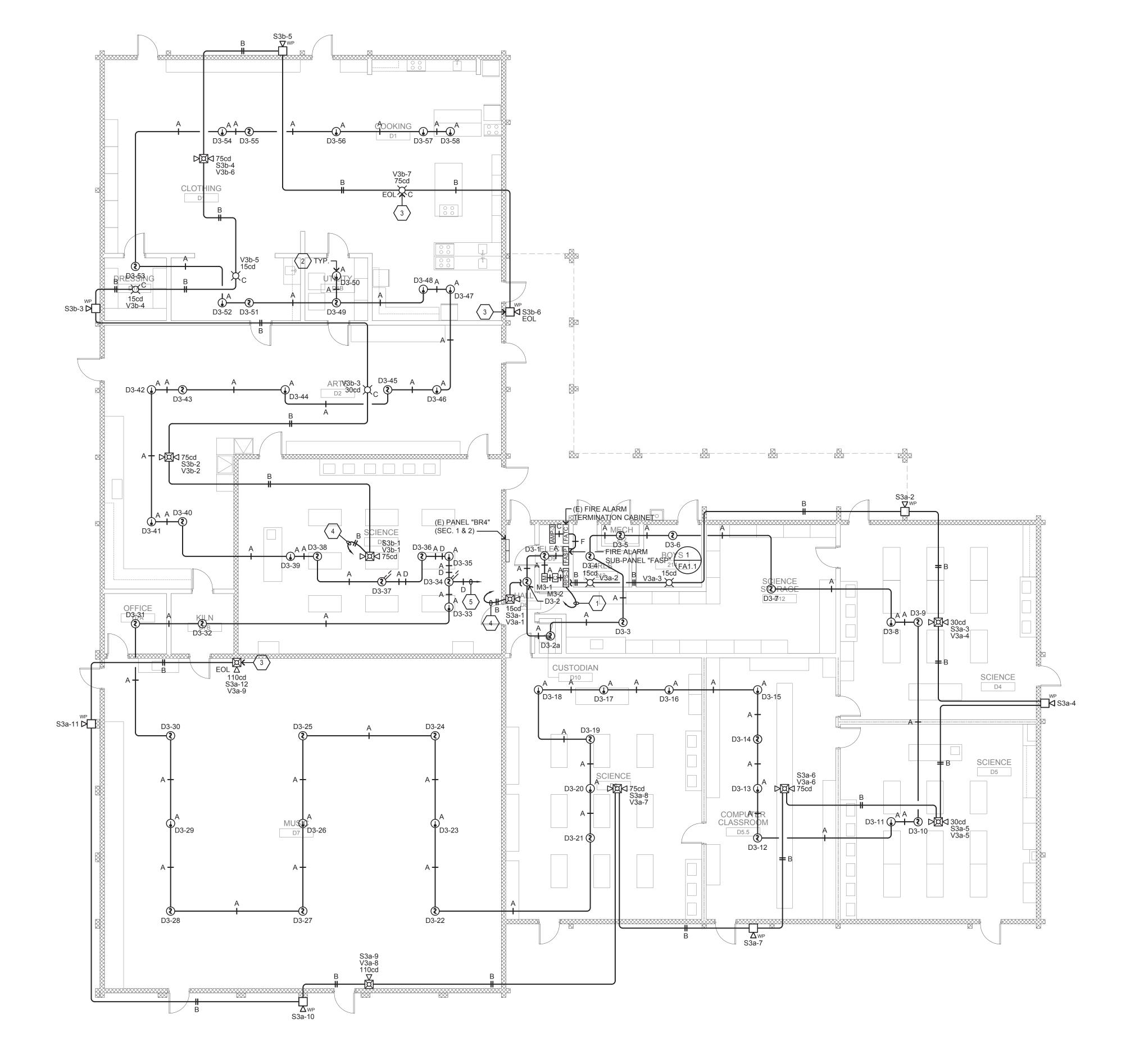
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CHOOL FIRE ALARM SYSTEM UPGRADE CHOOL NUE, SAN JOSE, CA 95132

FIRE ALARM PLAN THE BARN

DRAWN BY:
CHECKED BY:
SFA JOB NO:
DA

FA3.3



THE BARN

THE UNION

YOUTH CENTER

0' 2' 4' 6' 8'

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

BID ALTERNATE CO DETECTION NOTE:

AS PART OF BID ALTERNATE PRICING CONTRACTOR SHALL INCLUDE AT MIN. (1) SMOKE DETECTOR IN EACH CLASSROOM TO BE REPLACED WITH MULTI-CRITERIA SMOKE AND CARBON MONOXIDE DETECTOR; SEE FIRE ALARM EQUIPMENT LIST ON SHEET FA0.1 FOR MULTI-CRITERIA DETECTOR MANUFACTURER AND PART NUMBER.

FIRE RATED WALL LEGEND

1-HOUR FIRE RATED WALL

- A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY.
 PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH.
 COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
- B. ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.
- C. PROVIDE AND INSTALL JUNCTION BOXES AT EACH SIDE OF WALLS/CEILINGS PENETRATED FOR CONDUIT ROUTING AND AS REQUIRED TO NOT EXCEED MORE THAN 270° IN CONDUIT BENDS

CABLE LEGEND

GENERAL NOTES:

- TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
- TYPE B = DENOTES NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS, STROBES, BELL ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
- TYPE C = 6-STRAND 62.5 MICRON MULTI-MODE FIBER OPTIC CABLE, SUITABLE FOR UNDERGROUND USE.
- TYPE D = DENOTES 24VDC CONSTANT POWER CIRCUITS FOR DUCT SMOKE DETECTOR OR BEAM SMOKE DETECTOR; UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
- TYPE E = DENOTES NOTIFICATION APPLIANCE CIRCUITS FOR BEAM SMOKE DETECTOR TEST SWITCH. UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

SHEET NOTES

- 1. CIRCUIT VIA ½"C., 2 #12 & 1 #12 GND TO NEAREST ELECTRICAL PANEL; AT PANEL PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKER WITH LOCK-ON DEVICE WITH RED MARKINGS LABELED "FIRE ALARM/ECS".
- WHERE NECESSARY PROVIDE & INSTALL ACCESS PANEL FOR HEAT DETECTOR ABOVE CEILING;
 24" SQ. OPENING MINIMUM.
- 3. BEAM SMOKE DETECTOR TRANSMITTER; INSTALL WITH DIRECT LINE OF SIGHT OF REFLECTOR PLATE. MOUNT ON INSIDE WALL OF SOFFIT; FIELD VERIFY EXACT MOUNTING HEIGHT.
- 4. REFLECTOR PLATE;INSTALL WITH DIRECT LINE OF SIGHT OF TRANSMITTER; MOUNT ON INSIDE WALL OF SOFFIT; FIELD VERIFY EXACT MOUNTING HEIGHT.
- 5. PROJECTED BEAM DETECTOR REMOTE TEST STATION WITH KEYLOCK; CONNECT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MOUNT AT +44" A.F.F. TO TOP OF BOS; VERIFY EXACT LOCATION WITH ARCHITECT.
- 6. HOMERUN TO REMOTE POWER SUPPLY "RPS-4" LOCATED IN HALLWAY 306.
- 7. PROVIDE AND INSTALL CSFM LISTED WIREGUARD FOR ALL DEVICES IN MULTI-USE ROOM.
- 8. LOCATE FOR ANSUL SYSTEM MONITORING.

BUILDING KEY

THE BARN THE ACADEMIC CENTER

/UNION/

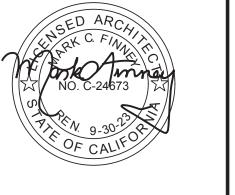
YOUTH

CENTER

- 9. PROVIDE AND INSTALL LAMICOID NAMEPLATE ON DEVICE READING "EOL".
- 10. HOMERUN TO REMOTE POWER SUPPLY "RPS-4" AND DIGITAL AUDIO AMPLIFIER "AMP-4" LOCATED IN HALLWAY 306.



(DSA STAMP AREA)







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OCATABLE CLASSROOMS
SHOOL FIRE ALARM SYSTEM UPGRADE
UE, SAN JOSE, CA 95132

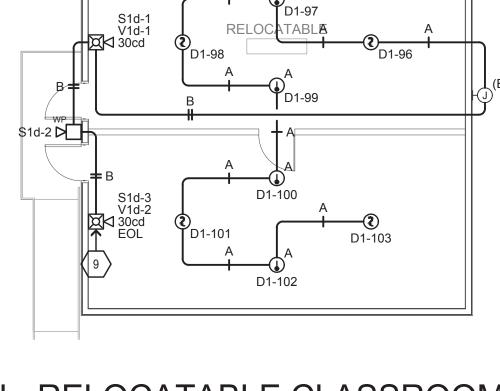
FIRE ALARM PLAN

THE UNION & RELO

DRAWN BY: FS
CHECKED BY: NA

SFA JOB NO: DATE:
21068 03/07/2022

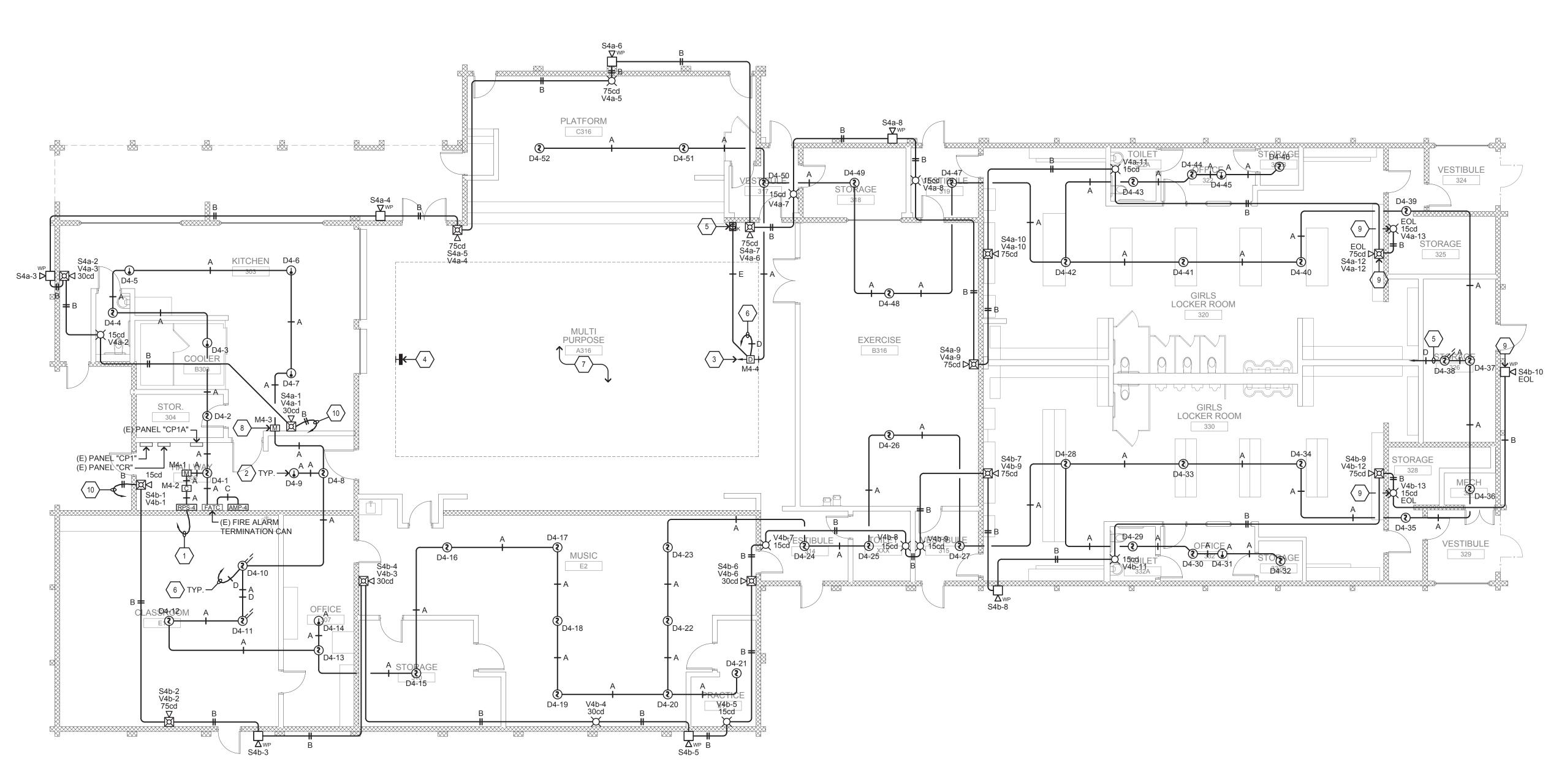
FA3.4



FIRE ALARM PLAN - RELOCATABLE CLASSROOMS 8 0' 2' 4' 6' 8'

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

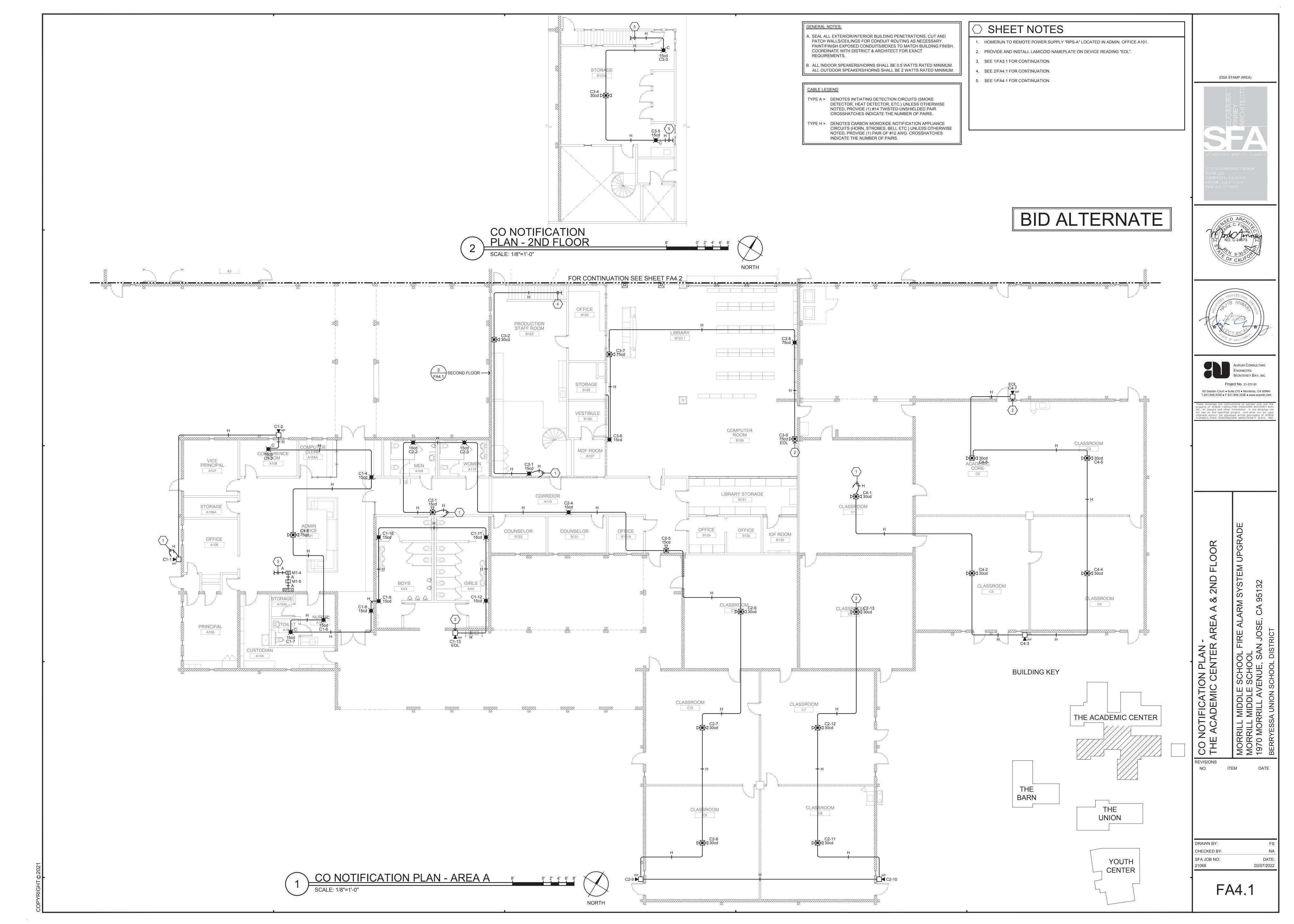


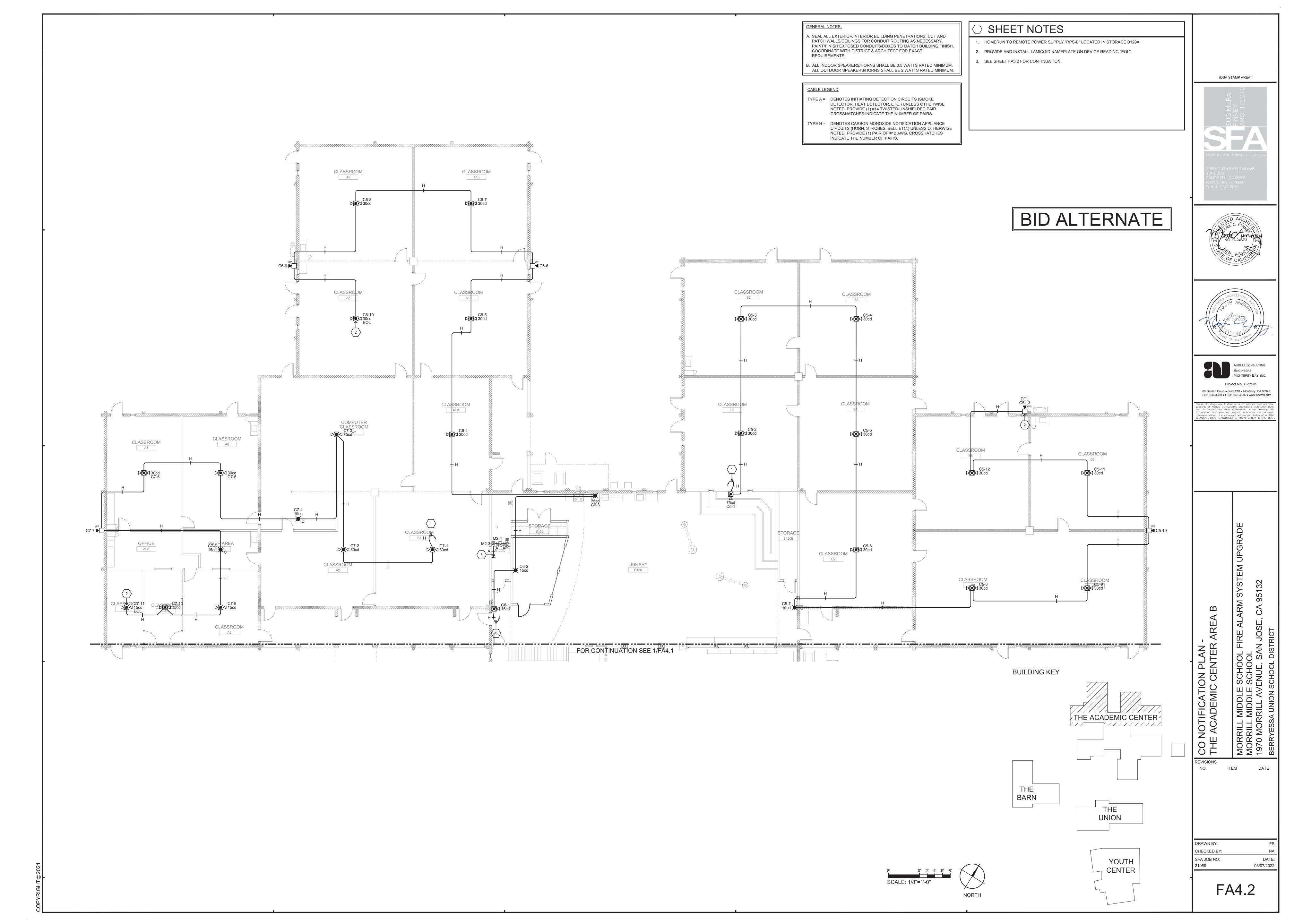


FIRE ALARM PLAN - THE UNION



THE UNION 8





GENERAL NOTES:

- A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
 - B. ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE H = DENOTES CARBON MONOXIDE NOTIFICATION APPLIANCE CIRCUITS (HORN, STROBES, BELL ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

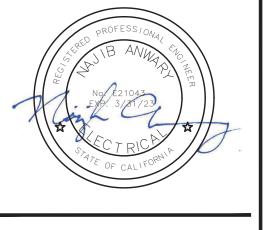
> SHEET NOTES

- HOMERUN TO REMOTE POWER SUPPLY "RPS-C" LOCATED IN ELECTRICAL ROOM D9.
- 2. PROVIDE AND INSTALL LAMICOID NAMEPLATE ON DEVICE READING "EOL".
- 3. SEE SHEET FA3.3 FOR CONTINUATION.

(DSA STAMP AREA)





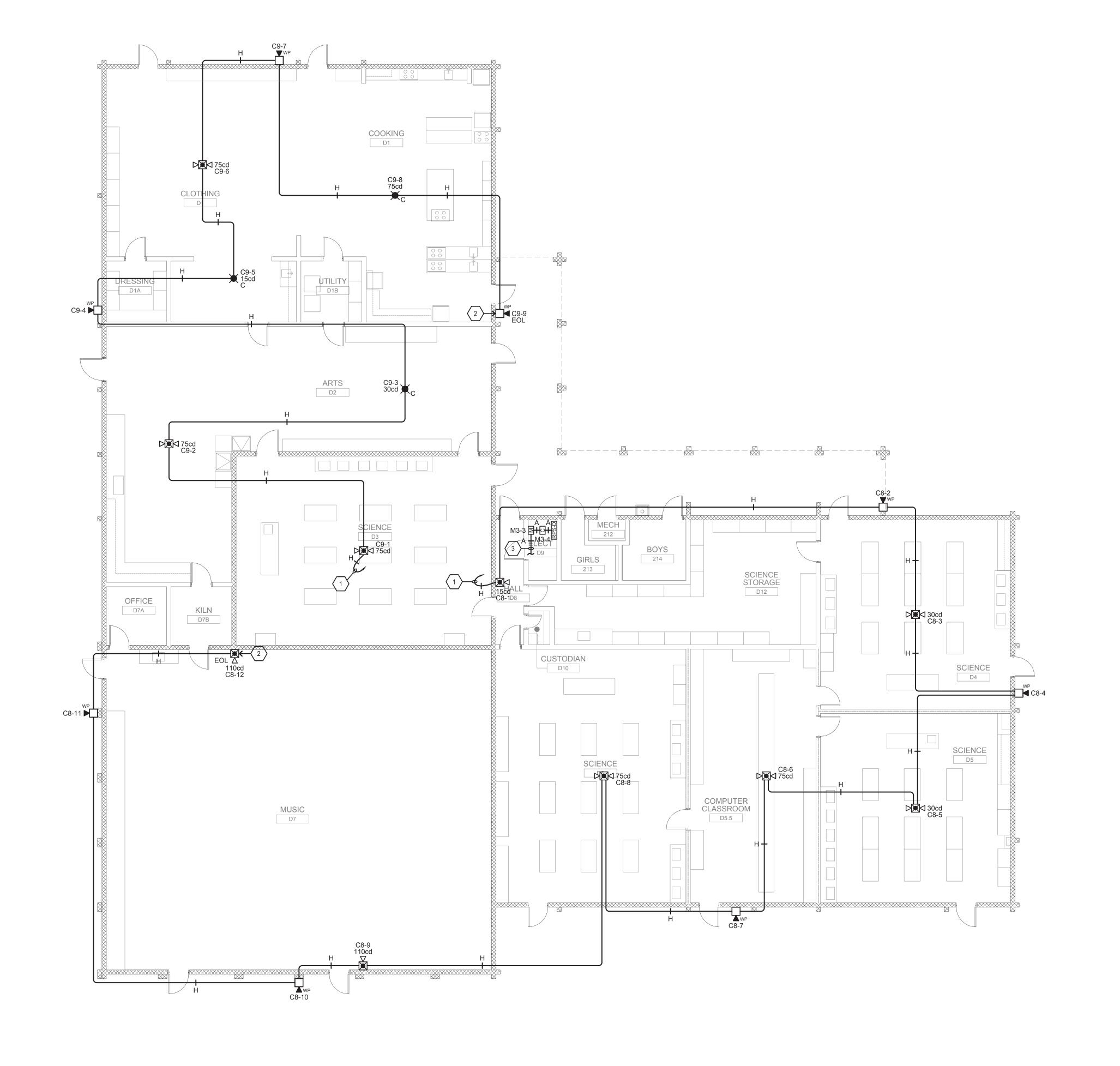




FIRE ALARM SYSTEM

CHECKED BY: SFA JOB NO:

FA4.3



BID ALTERNATE **BUILDING KEY** THE ACADEMIC CENTER THE UNION

GENERAL NOTES:

- A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
 - B. ALL INDOOR SPEAKERS/HORNS SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORNS SHALL BE 2 WATTS RATED MINIMUM.

ALL OUTDOOR SPEAK

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 TWISTED-UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE H = DENOTES CARBON MONOXIDE NOTIFICATION APPLIANCE CIRCUITS (HORN, STROBES, BELL ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

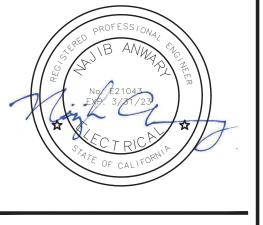
○ SHEET NOTES

- 1. HOMERUN TO REMOTE POWER SUPPLY "RPS-A" LOCATED IN ADMIN. OFFICE A101.
- 2. PROVIDE AND INSTALL LAMICOID NAMEPLATE ON DEVICE READING "EOL".
- 3. SEE 1/FA3.4 FOR CONTINUATION.
- 4. PROVIDE AND INSTALL CSFM LISTED WIREGUARD FOR ALL DEVICES IN MULTI-USE ROOM.

(DSA STAMP AREA)

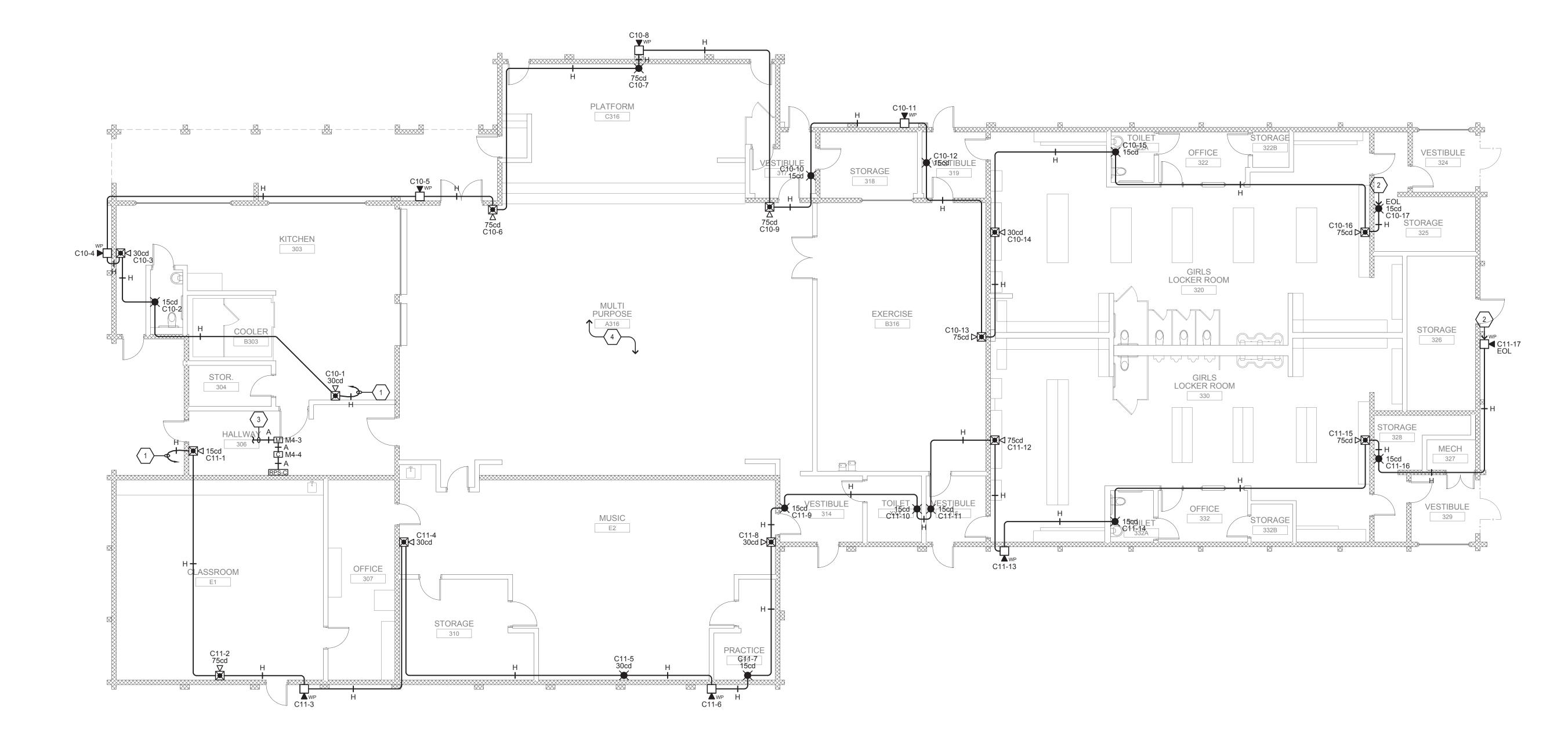


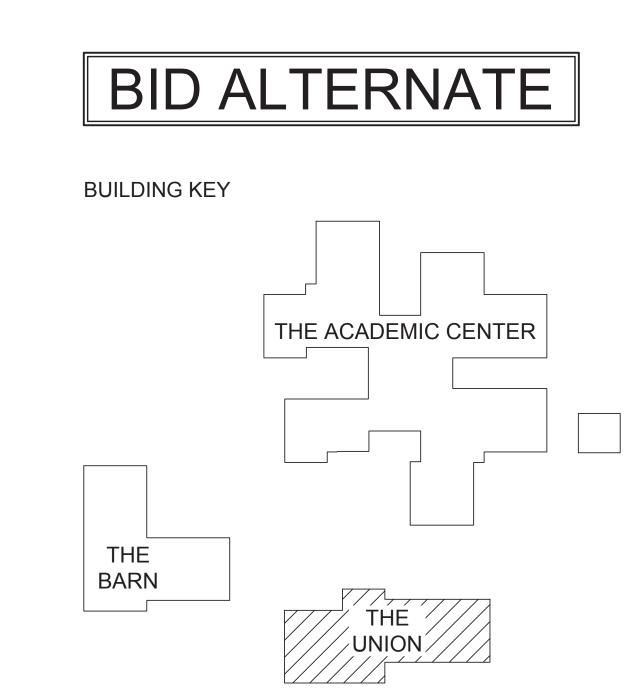


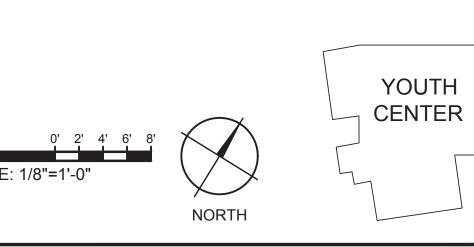




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CO NOTIFICATION PLAN THE UNION & RELOCATABLE CLASSROOMS
MORRILL MIDDLE SCHOOL FIRE ALARM SYSTEM UPGRADI
MORRILL MIDDLE SCHOOL
1970 MORRILL AVENUE, SAN JOSE, CA 95132

 DRAWN BY:
 FS

 CHECKED BY:
 NA

 SFA JOB NO:
 DATE:

 21068
 03/07/2022

FA4.4