FIRE ALARM SYSTEM

FOR

COLLEGE OF SANMATEO

SOFTBALL TEAM ROOM & FOOTBALL HALL of

1700 West Hillsdale Blvd. San Mateo, Ca. 94403

FAME BUILDINGS

	DRAWING INDEX	
SHEET NO.	SHEET CONTENTS	CAD FILENAME
FA0.00	COVER SHEET / DRAWING INDEX / EQUIPMENT LIST	01-COV.dwg
FA0.01	MISCELLANEOUS FIRE ALARM DETAILS	02-MISC.dwg
FA0.02	(E) MXL CONTROL PANEL	03-MXL.dwg
FA0.03	FIRE ALARM SITE PLAN	04-SITE.dwg
FA0.04	FIRE ALARM POWER SUPPLY DETAILS / RISER DIAGRAM	05-PS.dwg
FA0.05	WIRING DETAIL OF FIELD DEVICES	06-WD.dwg
FA0.06	FIRE ALARM PLAN - SOFTBALL TEAM ROOM & HALL of FAME BUILDINGS	07-FP.dwg
		Parks - Martin Branch (1970) (Security States Charles Andrews Andrews Agency (1974) (Security States March 1974)

BUILDING DATA

PROJECT LOCATION:

COLLEGE OF SAN MATEO 1700 WEST HILLSDALE BLVD. SAN MATEO, CA 94402

PROJECT LOCATION:

SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT 3401 CSM DRIVE SAN MATEO, CA 94402 TEL. 650-574-6512

CODE SUMMARY

APPLICABLE CODES:

1997 UBC and 2001 California Amendments Volumes 1 & 2 (2001 California Building Code - Part 2, Title 24, CCR)

2002 NEC and 2004 California Amendments
(2001 California Electrical Code - Part 3, Title 24, CCR)

2000 UMC and 2001 California Amendments (2001 California Mechanical Code - Part 4, Title 24, CCR)

2000 UPC and 2001 California Amendments (2001 California Plumbing Code - Part 5, Title 24, CCR)

2000 UFC and 2001 California Amendments (2001 California Fire Code - Part 9, Title 24, CCR)

CALIFORNIA TITLE 19: PUBLIC SAFETY, CCR

2002 NFPA 72

And All Amendments and Additions to the Above

GENERAL NOTES

1. ALL WIRING AND INSTALLATION MUST CONFORM WITH PROJECT SPECIFICATIONS, APPLICABLE CODE SUMMARIES AND REQUIREMENTS ADOPTED BY THE CITY.

2. SMOKE DETECTORS SHOULD NOT BE LOCATED IN A DIRECT AIRFLOW NOR CLOSER THAN 3 FEET (1 m) FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING, PER NFPA 72 (CHAPTER A-5.7.4.1) 2002 EDITION.

DITION.

FROM FLORESCENT BALLAST (LIGHTING FIXTURES).

5. ALL NOTIFICATION CIRCUIT WIRES MUST BE SUPERVISED. HENCE, NO PARALLEL BRANCHING OF WIRES IS PERMISSIBLE (T-TAPPING). ALL AUDIBLE SIGNALING DEVICES SHALL PRODUCE A DISTINCTIVE THREE-PULSE TEMPORAL TONE, AUDIBLE SIGNALS SHALL HAVE A SOUND LEVEL OF NOT LESS THAN 75dbA AT 10' OR AT LEAST 15dbA ABOVE THE AVERAGE AMBIENT SOUND LEVEL, WHICHEVER IS GREATER, BUT NOT MORE THAN 120dbA AT THE MINIMUM HEARING DISTANCE FROM THE AUDIBLE APPLIANCE (PER NFPA 72 CH. 7, 2002 ED.) WHEN MORE THAN TWO (2) VISUAL DEVICES ARE IN THE SAME VIEWING PLANE THE VISUAL DEVICES SHALL BE SYNCHRONIZED AS REQUIRED BY NERA 72

4. WHEN INSTALLING INITIATING AND NOTIFICATION DEVICES, POLARITY MUST BE OBSERVED.

6. DO NOT INSTALL ADDRESSABLE DEVICES PRIOR TO PROGRAMMING. (SEE NOTE 15)

7. ALL 24 VDC WIRE TO BE INSTALLED IN DEDICATED CONDUIT SEPARATE FROM 120 VAC WIRING, IN ACCORDANCE WITH CURRENT NATIONAL AND STATE FLECTRICAL CODES

8. CONDUIT SIZING TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR AND SHALL CONFORM TO CONDUIT FILL CAPACITIES AS PER REQUIREMENTS OF CURRENT EDITIONS OF NATIONAL AND STATE ELECTRICAL CODES.

9. DO NOT APPLY 120 VAC POWER TO CONTROL PANEL UNTIL A SIEMENS FIRE SAFETY SERVICE TECHNICIAN HAS INSPECTED ALL SYSTEM WIRING CONNECTIONS AND HAS APPROVED THE SYSTE TO BE TURNED ON.

10. ALL PLUG-IN TYPE DETECTORS REQUIRE A 4" OCTAGONAL, 1-1/2" OR DEEPER MOUNTING BOX. REFER TO DETAIL DRAWINGS FOR DEVICE WIRING AND MOUNTING CONDITIONS

11. 120 VAC INPUT CONNECTIONS TO THE FIRE ALARM CONTROL PANEL SHALL BE ON DEDICATED BRANCH CIRCUIT(S). THE CIRCUIT(S) AND CONNECTIONS SHALL BE MECHANICALLY PROTECTED. CIRCUIT DISCONNECTION SHALL HAVE A RED MARKING. SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL AND SHALL BE IDENTIFIED AS FIRE ALARM CIRCUIT CONTROL. THE LOCATION OF THE CIRCUIT DISCONNECTING BREAKER SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.

12. INSTALLATION MATERIALS SUCH AS CONDUITS, FITTINGS, JUNCTION BOXES, TERMINAL CABINETS, PULL BOXES, HANGERS, ETC. ARE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL WIRING IS TO BE FROM DEVICE TERMINAL TO DEVICE TERMINAL SPLICES AND WIRE NUTS ARE NOT ACCEPTABLE.

13. ANY DEVIATION FROM THE DESIGN AND LOCATION OF EQUIPMENT SHOWN MUST FIRST HAVE A WRITTEN APPROVAL FROM SIEMENS FIRE SAFETY. ANY DEVIATION FROM DESIGN MUST ALSO BE INDICATED ON SIEMENS FIRE SAFETY SHOP DRAWINGS (BLUEPRINTS) AND RETURNED TO SIEMENS FIRE SAFETY AT TIME OF JOB COMPLETION.

14. THE DRAWINGS REPRESENT A SIEMENS FIRE SAFETY ENGINEERED FIRE ALARM SYSTEM PER CONTRACTUAL DESIGN DRAWINGS AND SPECIFICATIONS.

a) CONTRACTOR SHALL NOT DEVIATE BY NOT MORE THAN 5% FROM THE FINAL APPROVED SHOP

b) WIRE RUNS HAVE BEEN ENGINEERED TO COMPLY WITH SPECIFIC VOLTAGE DROP REQUIREMENTS.
ANY DEVIATION FROM SHOWN WIRE RUNS WHICH RESULTS IN NONCOMPLIANCE WITH VOLTAGE DROP
REQUIREMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
c) THESE SUBMITTED SHOP DRAWINGS ARE COMPLETE. SIEMENS FIRE SAFETY SHALL NOT BEAR ANY

15. ALL SMOKE DETECTORS (NEW OR EXISTING) SHALL BE PROTECTED FROM DUST AND DEBRIS DURING CONSTRUCTION. SMOKE-SENSING DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEANUP OF ALL TRADES IS COMPLETE AND FINAL. PER NFPA 72 (5.7.1.11) 2002 EDITION. Exception: WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR PROTECTION DURING CONSTRUCTION. DETECTORS THAT HAVE BEEN INSTALLED DURING CONSTRUCTION AND FOUND TO HAVE A SENSITIVITY OUTSIDE THE LISTED AND MARKED SENSITIVITY RANGE SHALL BE CLEANED OR REPLACED AT AN ADDITIONAL COST TO THE CONTRACTOR.

16. IF REQUIRED BY THE OWNER OR CONTRACT, LABELING OF FIELD DEVICES SHALL BE SUPPLIED BY

17. ACCEPTANCE TESTING SHALL COMPLY WITH NFPA 72: 10.4.1.2.1.4 AND SHALL INCORPORATE 100% OF ALL DEVICES AFFECTED BY THIS MODIFICATION AS WELL AS 10% OF INITIATING DEVICES NOT DIRECTLY AFFECTED UP TO A MAXIMUM OF 50 DEVICES.

MXL FIRE ALARM WIRING GUIDELINES

1. ALL WIRING MUST COMPLY WITH LOCAL AND CALIFORNIA ELECTRICAL CODES, ALL WIRING MUST BE DONE AS DESCRIBED IN NOTES 2 & 8 BELOW, TO OBTAIN SAFE AND PROPER SYSTEM OPERATION.

EARTH GROUND THE MXL ENCLOSURE PROPERLY; SEE LATEST EDITION OF NATIONAL ELECTRICAL CODES FOR APPROVED METHODS. CONDUIT GROUND IS ADEQUATE.

3. SEPARATE ALL WIRING FOR INITIATING DEVICES (i.e., DETECTORS, MANUAL STATIONS, TRI MODULES, ETC) FROM ALL OTHER WIRING IN THE MXL-IQ ENCLOSURE.

4. INSULATE ALL CABLE DRAIN WIRES FROM ANY CONDUIT OR OTHER EARTH

GROUNDED ELECTRICAL BOY, INCLUDING THOSE INTELLEMENT, ENCLOSURE.

GROUNDED ELECTRICAL BOX, INCLUDING THOSE IN THE MXL ENCLOSURE.

5. CONNECT SHIELD CABLE DRAIN WIRE ONLY AT SPECIFIED LOCATION INSIDE THE MXL ENCLOSURE.

6. EARTH GROUND ALL CONDUIT RUNS THROUGHOUT THE INSTALLATON.

7. LINE RESISTANCE IS MEASURED AT THE ALD-2I MODULE SCREW TERMINALS. THE END OF THE LOOP MUST BE SHORTED, THE ALD-2I MODULE MUST BE REMOVED FROM THE SCREW TERMINALS, AND NO ADDRESSABLE DEVICES MAY BE INSTALLED.

8. LINE CAPACITANCE IS MEASURED AT THE ALD-2I MODULE SCREW TERMINALS THE END OF THE LOOP(S) MUST BE OPEN. THE ALD-2I MODULE MUST BE REMOVED FROM THE SCREW TERMINALS AND NO ADDRESSABLE DEVICES MAY BE INSTALLED.

9. ALL 110/120 VAC CIRCUITS SHALL BE INSTALLED IN DEDICATED CONDUIT.

10. ALD-2I LOOP WIRING MUST NOT BE IN THE SAME CONDUIT AS CODED AUDIBLE.

11. ALL INITIATING CIRCUITS ARE RATED POWER LIMITED AND SHALL BE WIRED IN ACCORDANCE WITH APPLICABLE CODES.

12. UNDERGROUND WIRING IS PERMISSIBLE IF ALL NEC WIRING REQUIREMENTS ARE MET.

13. OVERHEAD OR EXTERIOR WIRING IS NOT RECOMMENDED.

E .								
POWER SUPPLY	1	NAC	1	PS-24-8MC	POWER BOOSTER POWER SUPPLY PANEL	WHEELOCK		7315-0785:162
	2		2	WKA12-7.5F	7.5 AMPS/HOUR BATTERY, 12VDC	WERKER		Not Applicable
	3	ICP	1	ICP	INTELLIGENT CONTROL POINT	SIEMENS	5065	7300-0067:172
FIELD DEWCES	4	TRI-M	2	TRI-B6M	INTELLIGENT INTERFACE MINIATURE MODULE, SINGLE INPUT	SIEMENS	6170	7300-0067:146
	5		2	FP-11	INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR	SIEMENS	6175	7272-0067:203
	6	®	2	DB-11	DETECTOR MOUNTING BASE	SIEMENS	6175	7300-0067:134
	7	_	8	FPT-11	INTELLIGENT THERMAL DETECTOR	SIEMENS	6176	7270-0067:202
	8		В	DB-11	DETECTOR MOUNTING BASE	SIEMENS	6175	7300-0067:134
	9	() ₂₀₀	1	DT-200R	CONVENTIONAL THERMAL FIRE DETECTOR 200 DEG.	SIEMENS	6130	7270-0067:156
	10	- D'''	1	ASWP-2475W-FR	WEATHERPROOF HORN/STROBE, 24VDC (Red) Wall Mtd.	WHEELOCK		7125-0785:131
	11		1	WPBB-R	WEATHERPROOF BACKBOX	WHEELOCK		
	12	XI5tal	2	RSS-24MCW-FR	MULTI CANDELA STROBE, 15cd (Red) Wall Mtd.	WHEELOCK		7125-0785:141
	13	X2004			MULTI CANDELA STROBE, 30cd (Red) Wall Mtd.	WHEELOCK		7125-0785:141
	14	X 7566			MULTI CANDELA STROBE, 75cd (Red) Wall Mtd.	WHEELOCK		7125-0785:141
	15	∑ 110⊯			MULTI CANDELA STROBE, 110cd (Red) Wall Mtd.	WHEELOCK		7125-0785:141
	16	∑ 15≈d			MULTI CANDELA HORN/STROBE, 15cd (Red) Wall Mtd.	WHEELOCK		7125-0785:142
	17	Ž 20∞ ∑	2	NS-24MCW-FR	MULTI CANDELA HORN/STROBE, 30cd (Red) Wall Mtd	WHEELOCK		7125-0785:142
	18	▽ ▽ 75cd			MULTI CANDELA HORN/STROBE, 75cd (Red) Wall Mtd	WHEELOCK		7125-0785:142
	19	∑ 110∞			MULTI CANDELA HORN/STROBE, 110cd (Red) Wall Mtd.	WHEELOCK		7125-0785:142
	"					 	 _ 	7450 0007.070
	20	P	2	MSI-10B	INTELLIGENT MANUAL PULL STATION (SINGLE ACTION)	SIEMENS	6187	7150-0067:036
	-	P						
	20 21 22 23 24	F		TBALL	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE			
	20 21 22 23 24 25	P	00	TBALL	HALL OF FAME FAEG	UIPME	NT	LIST
	20 21 22 23 24 25 26	F	00	TBALL	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE	UIPME	NT	LIST
ELD (CES	20 21 22 23 24 25 26 27	F	00	TBALL	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE	UIPME	NT	LIST
FIELD DEVICES	20 21 22 23 24 25 26 27 28	F	00	TBALL	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE	UIPME	NT	LIST
PIELD DEVICES	20 21 22 23 24 25 26 27 28 29	F	00	TBALL	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE	UIPME	NT	LIST
PIELD DEVICES	20 21 22 23 24 25 26 27 28 29 30	F	00	TBALL	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE	UIPME	NT	LIST
PIELD DEVICES	20 21 22 23 24 25 26 27 28 29 30 31	F	00	TBALL	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE	UIPME	NT	LIST
PIELD DEVICES	20 21 22 23 24 25 26 27 28 29 30 31 32	F	00	TBALL	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE	UIPME	NT	LIST
	20 21 22 23 24 25 26 27 28 29 30 31 32	F	00	TBALL	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE	UIPME	NT	LIST
	20 21 22 23 24 25 26 27 28 29 30 31 32	P F C	3	7109CS-C	HALL OF FAME FAEG STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE & SOUNDER BASE (CEILING MOUNT WITH BATTERY BACK-UP)	GENTEX	NT	LIST
	20 21 22 23 24 25 26 27 28 29 30 31 32	P P P P P P P P P P P P P P P P P P P	3	TBALL 7109CS-C BY OTHERS	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE & SOUNDER BASE (CEILING MOUNT WITH BATTERY BACK-UP) JUNCTION BOX (PROVIDED BY ELECTRICAL CONTRACTOR)	QUIPME GENTEX PROVIDED BY OTHERS	NT	LIST
	20 21 22 23 24 25 26 27 28 29 30 31 32	P F C	3	7109CS-C	HALL OF FAME FAEG STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE & SOUNDER BASE (CEILING MOUNT WITH BATTERY BACK-UP)	GENTEX	NT	LIST
	20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	P P P P P P P P P P P P P P P P P P P	3	TBALL 7109CS-C BY OTHERS	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE & SOUNDER BASE (CEILING MOUNT WITH BATTERY BACK-UP) JUNCTION BOX (PROVIDED BY ELECTRICAL CONTRACTOR)	QUIPME GENTEX PROVIDED BY OTHERS	NT	LIST
MISCELLANEOUS SYMBOLS FIELD FIELD OF ABBREVIATION DEVICES	20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	P P P P P P P P P P P P P P P P P P P	3	TBALL 7109CS-C BY OTHERS	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE & SOUNDER BASE (CEILING MOUNT WITH BATTERY BACK-UP) JUNCTION BOX (PROVIDED BY ELECTRICAL CONTRACTOR)	QUIPME GENTEX PROVIDED BY OTHERS	NT	LIST
MISCELLANEOUS SYMBOLS and ABBREVIATION DEVICES	20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	P P P P P P P P P P P P P P P P P P P	3	TBALL 7109CS-C BY OTHERS	HALL OF FAME FAEC STAND-ALONE PHOTOELECTRIC SMOKE DETECTOR W/ STROBE & SOUNDER BASE (CEILING MOUNT WITH BATTERY BACK-UP) JUNCTION BOX (PROVIDED BY ELECTRICAL CONTRACTOR)	QUIPME GENTEX PROVIDED BY OTHERS	NT	LIST

SOFTBALL TEAM ROOM FA EQUIPMENT LIST

DESCRIPTION

SCOPE OF WORK

1. The project consists of providing automatic detection and occupant evacuation notification for the new Softball Team Room Building as indicated herein. The fire alarm system is controlled by the FACP located in Building 35. The system activates occupant notification as a stand-alone building. Any system status changes are sent to the Building 35 FACP, which in turn sends all status changes to the Campus main head-end, which in turn sends all system status changes to the Siemens Central Monitoring Company.

2. This project also consists of providing stand-alone smoke detectors with visual and audible alarm to Softball Hall of Fame Building.

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SAN MATEO COUNTY
COMMUNITY COLLEGE
DISTRICT
ATHLETIC FIELDS
PHASE 2
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& FOOTBALL HALL OF FAME
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INDEX / EQUIPMENT LIST
ISSUE: IDATE: IDESCRIPTION:

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DSA 04/26/07 DSA SUBMISSION

REVIEWED BY: KELLY ROGERS

APPROVED BY: KELLY ROGERS

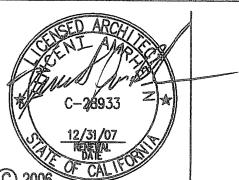
SIEMENS JOB NO.: 440P-022170

INDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPL. #: 01-108848

FILE #: 41-C1

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SHEET NO

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