



DATE: 9 July 2018 TIME: 9:18 am  
 PATHNAME: G:\17405\ELLSheets  
 DRAWING FILENAME: 17405E200  
 DRAFTER: cm04  
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**SHEET NOTES:**

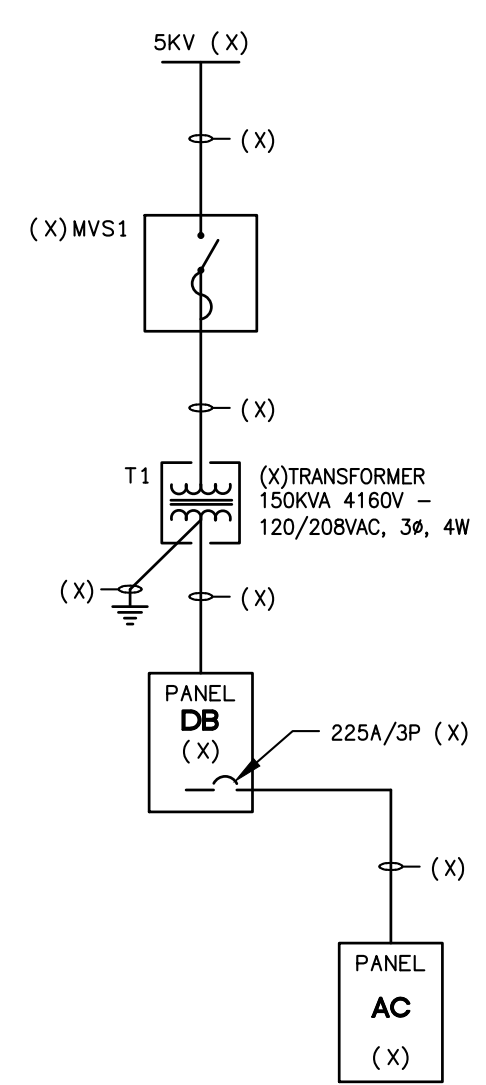
- FIELD VERIFY LOCATION OF ALL BUILDINGS AND APPENDICES.
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN & INSTALLATION.
- FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
- CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
- 1" CONDUIT MINIMUM UNDERGROUND.
- COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
- CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

EXISTING PANEL																			
PANEL NUMBER		PANEL AC		VOLTAGE		120/208		PHASE		3		WIRE		4		NEMA 1		COPPER BUSS	
SOURCE		T1		A.I.C.		10,000		PANEL LOCATION		ELEC / MECH ROOM		BUS AMPERE RATING		225		MAIN LUGS ONLY		SURFACE MOUNTING	
CIRCUIT	DESCRIPTION	LOAD(VA)			BRKR	AMP	POLE	CIRCUIT	AMP	POLE	LOAD(VA)			CIRCUIT	DESCRIPTION				
		A	B	C							A	B	C						
CU-1A		3000			40	1	2	35	1	2000			CU-2A						
			3000		3	3	4												
				3000	3	5	6												
CU-1B		3000			40	7	8			3000			CU-2B						
			3000		3	9	10												
				3000	3	11	12												
CU-1C		2000			35	13	14			2000			FURNACE 1						
			2000		3	15	16												
				2000	3	17	18			2000			FURNACE 3						
FURNACE 2		500			15	19	20			500			FURNACE 3						
			500		3	21	22						SPARE						
				500	3	23	24						FIRE ALARM						
FIRE SMOKE DAMPER		200			1	20	25			180			EXTERIOR RECEPTACLE						
			1000		20	27	28			100			HWAC CONTROL						
WATER HEATER			1000		2	29	30						SPARE						
				1000	2	31	32			200			CIRC. PUMP						
SPACE						33	34						SPACE						
						35	36												
						37	38												
						39	40												
						41	42												
TOTALS		8700	9500	9500						7880	7100	7100	TOTALS						
L.C.L. VOLT AMPS:		PHASE A			PHASE B			PHASE C											
TOTAL VOLT AMPS:	49780	PHASE A 16580			PHASE B 16600			PHASE C 16600											
TOTAL AMPS:	138.3	PHASE A 138.2			PHASE B 138.3			PHASE C 138.3											

1 RED BREAKER WITH LOCK-ON

PANEL WITH REVISIONS																			
PANEL NUMBER		PANEL AC		VOLTAGE		120/208		PHASE		3		WIRE		4		NEMA 1		COPPER BUSS	
SOURCE		T1		A.I.C.		10,000		PANEL LOCATION		ELEC / MECH ROOM		BUS AMPERE RATING		225		MAIN LUGS ONLY		SURFACE MOUNTING	
CIRCUIT	DESCRIPTION	LOAD(VA)			BRKR	AMP	POLE	CIRCUIT	AMP	POLE	LOAD(VA)			CIRCUIT	DESCRIPTION				
		A	B	C							A	B	C						
SPARE					40	1	2	35	1				SPARE						
					3	3	4												
					40	7	6			3									
					3	9	8												
					3	11	10												
					35	13	12			3									
					3	15	14												
					3	17	16												
SPARE					15	19	18			3									
					3	21	20			1	500			FURNACE 3					
					3	23	22							SPARE					
FIRE SMOKE DAMPER		200			1	20	24							FIRE ALARM					
			1000		20	27	26			180				EXTERIOR RECEPTACLE					
WATER HEATER			1000		2	29	28			100				HWAC CONTROL					
SPACE				1000	2	31	30							SPARE					
SPACE						33	32			20	1	200		CIRC. PUMP					
SPACE						35	34							SPACE					
AC-2 (N)		7000			80	37	36			60		5000		AC-1 (N)					
			7000		3	39	38					5000							
				7000	3	41	40												
						42	41												
TOTALS		7200	8000	8000						5880	5100	5100	TOTALS						
L.C.L. VOLT AMPS:		PHASE A			PHASE B			PHASE C											
TOTAL VOLT AMPS:	39280	PHASE A 13080			PHASE B 13100			PHASE C 13100											
TOTAL AMPS:	109.1	PHASE A 109.0			PHASE B 109.2			PHASE C 109.2											

1 RED BREAKER WITH LOCK-ON



**ELECTRICAL SINGLE LINE DIAGRAM**  
SCALE: NONE ALL ITEMS ARE EXISTING

REVISIONS	DATE	BY

**LUCCI & ASSOCIATES INC.**  
CONSULTING ELECTRICAL ENGINEERS  
3251 CORTE MALPASO, #511  
CAMARILLO, CA 93012-8094  
(805) 489-6500 FAX (805) 489-6519  
Web Site <http://www.luccland.com>

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**VENTURA COLLEGE**  
4667 Telegraph Road  
Ventura, CA 93003

**DEPARTMENT OF MAINTENANCE & OPERATIONS**  
71 Day Road  
Ventura, CA 93003

**PROJECT DIRECTORY**

ELECTRICAL ENGINEER:  
KEN LUCCHI

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**BOOK STORE/STUDENT BUSINESS OFFICE ELECTRICAL SINGLE LINE DIAGRAM & PANEL SCHEDULES**

SHEET NAME

DATE: 06-25-2018

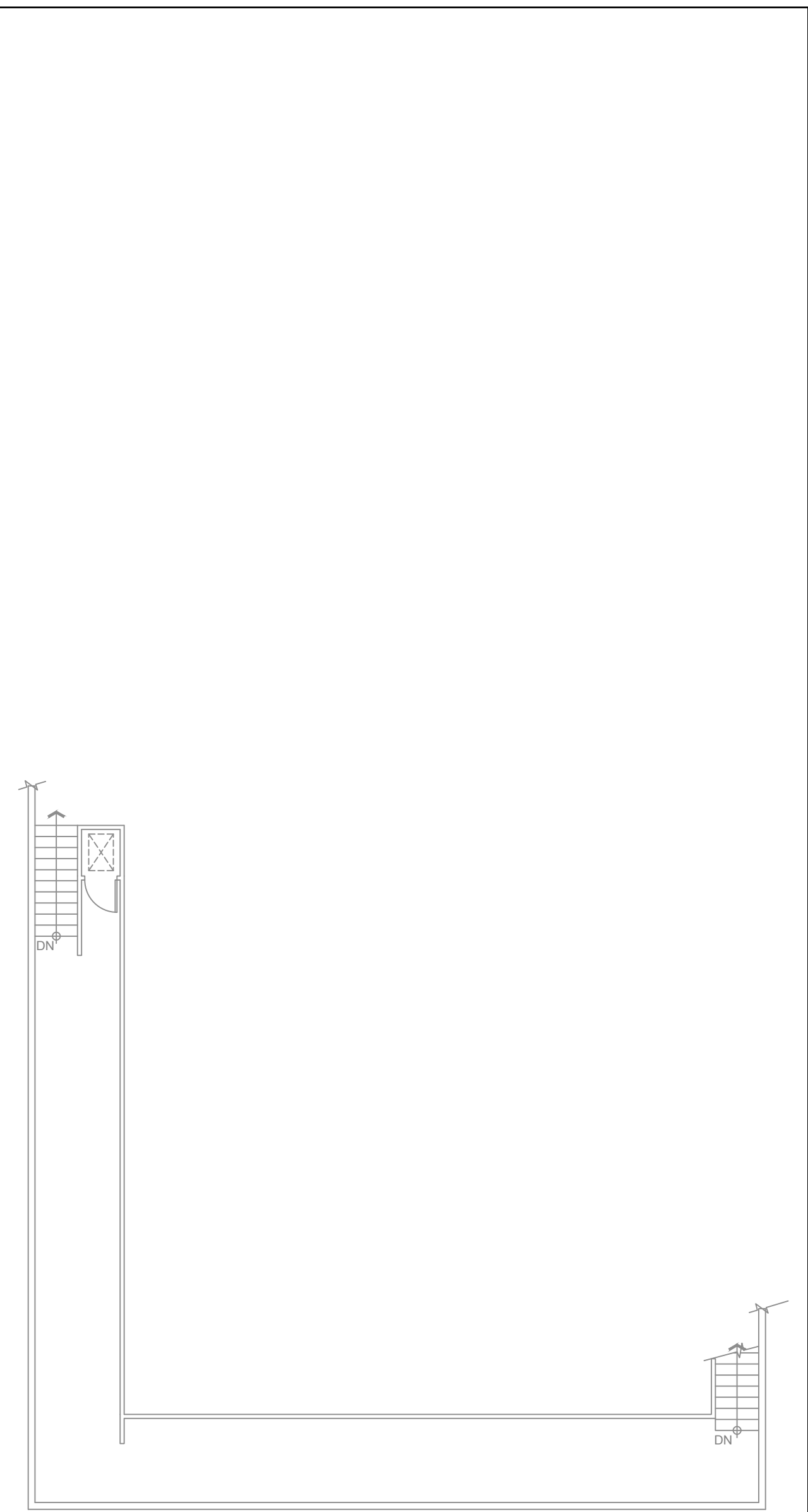
SCALE: AS SHOWN

PROJECT: 17 - 405

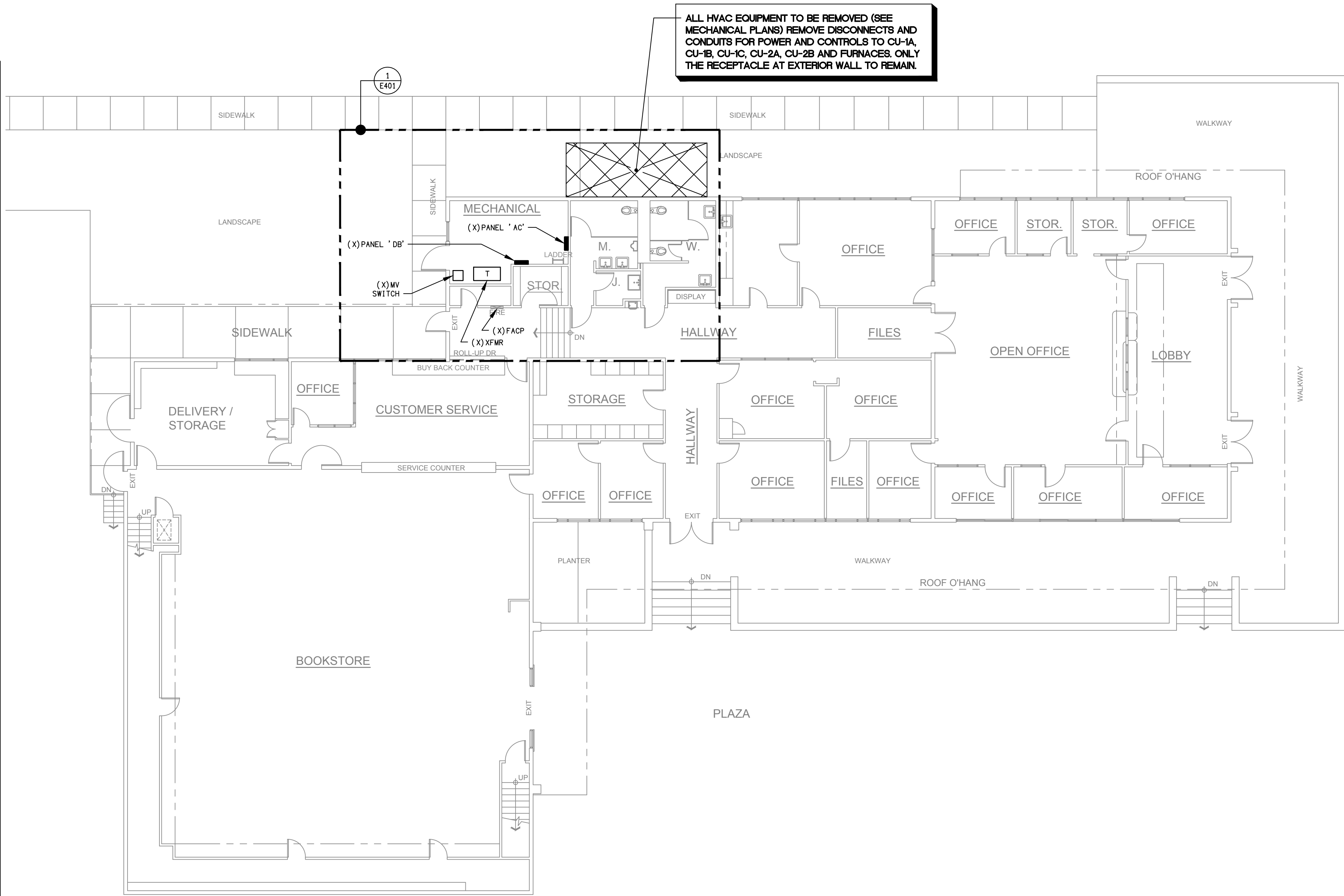
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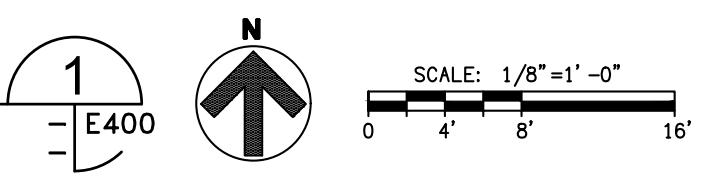
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MEZZANINE PLAN



FIRST FLOOR HVAC DEMOLITION PLAN - ELECTRICAL  
 SCALE: 1/8" = 1'0"



SHEET NOTES:

- SCOPE: PROVIDE FIELD SURVEY AND PERFORM DEMOLITION, PREPARATORY AND MISCELLANEOUS WORK IN AREAS AS INDICATED AND SPECIFIED, COMPLETE.
- DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL CONDUIT, PROVIDE ALL WIRING AND EQUIPMENT REQUIRED TO COMPLETE THE PROJECT.
- PROVIDE PREPARATION OF THE EXISTING BUILDING TO RECEIVE OR CONNECT THE NEW WORK.
- PROVIDE MISCELLANEOUS DEMOLITION, CUTTING, ALTERATION, AND REPAIR WORK IN THE EXISTING BUILDING NECESSARY FOR THE COMPLETION OF THE ENTIRE PROJECT.
- PROVIDE DISCONNECTING AND RECONNECTION OF ELECTRICAL EQUIPMENT AS REQUIRED BY THE CONSTRUCTION MODIFICATIONS.
- EXISTING CONDITIONS: PRIOR TO BID MAKE A DETAILED SURVEY OF THE EXISTING CONDITIONS PERTAINING TO THE WORK. CHECK THE LOCATIONS OF ALL EXISTING STRUCTURES, EQUIPMENT AND WIRING (BRANCH CIRCUITING AND CONTROLS). CHECK FOR ANY HAZARDOUS MATERIALS WHICH MAY REQUIRE SPECIAL HANDLING.
- SALVAGE AND DISPOSAL: ALL REMOVED MATERIAL OTHER THAN ITEMS TO BE REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS FROM THE OWNER'S REPRESENTATIVE. DISPOSAL SHALL BE DONE IN ACCORDANCE WITH EPA AND GOVERNING BODY REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL PAY ALL FEES AND CHARGES FOR DISPOSAL.
- SCHEDULE ALL WORK AND OUTAGES WITH OWNERS WRITTEN APPROVAL.
- CONTRACTOR SHALL LEAVE ALL CIRCUITS ENERGIZED TO DEVICES IN AREAS OUTSIDE OF DEMOLITION AREA EVEN IF FEEDERS ARE ROUTED THROUGH DEMOLITION AREA.

REVISIONS	DATE	BY
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**LUCCI & ASSOCIATES INC.**  
 CONSULTING ELECTRICAL ENGINEERS  
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 CAMARILLO, CA 93012-8094  
 (805) 389-6500 FAX (805) 389-6519  
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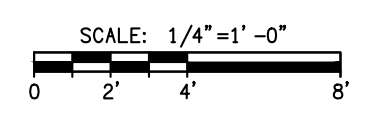
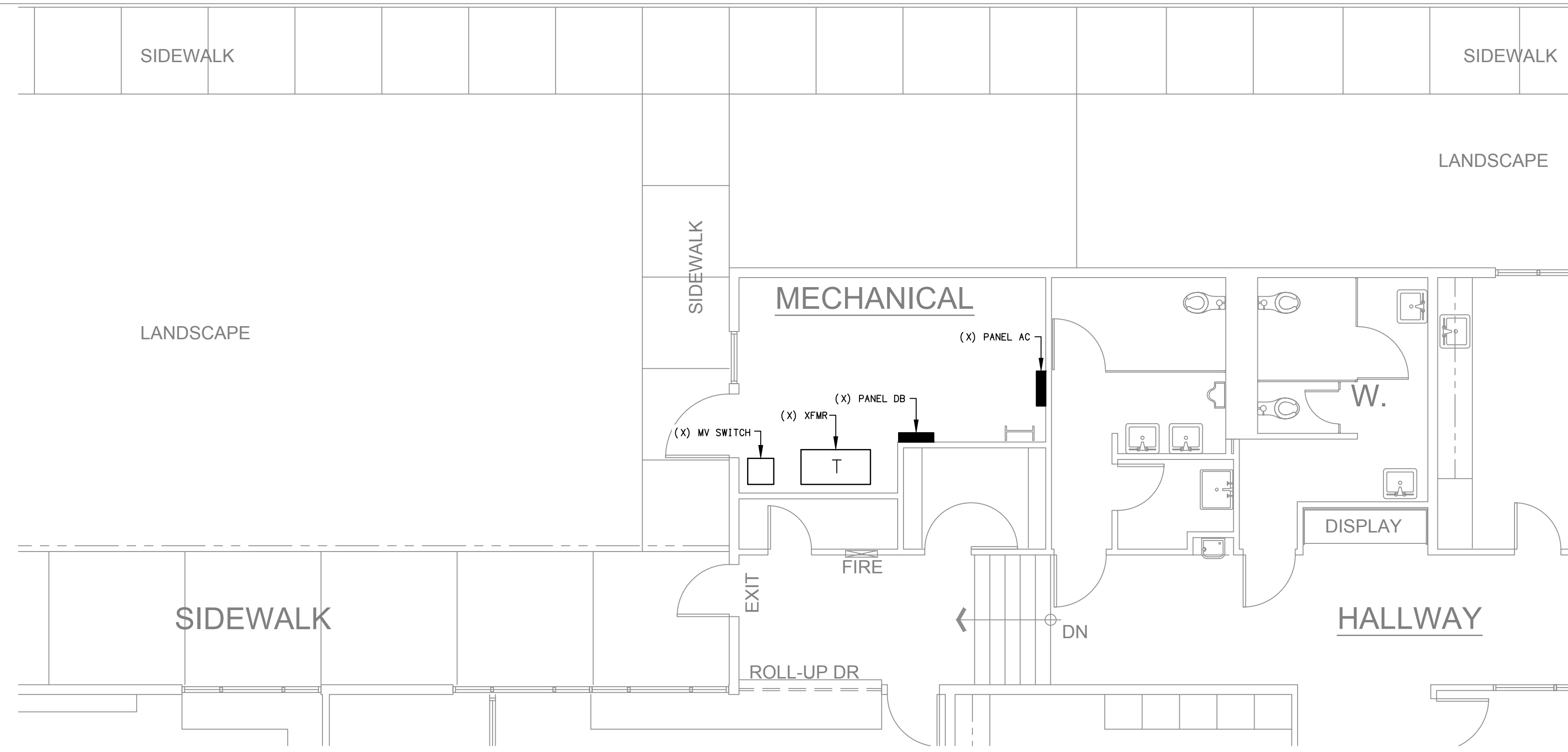
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 VENTURA COLLEGE  
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 Ventura, CA 93003  
 DEPARTMENT OF  
 MAINTENANCE &  
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 71 Day Road  
 Ventura, CA 93003

PROJECT DIRECTORY  
 ELECTRICAL ENGINEER:  
 KEN LUCCHI

BOOK STORE/STUDENT  
 BUSINESS OFFICE  
 FIRST FLOOR HVAC  
 DEMOLITION PLAN -  
 ELECTRICAL

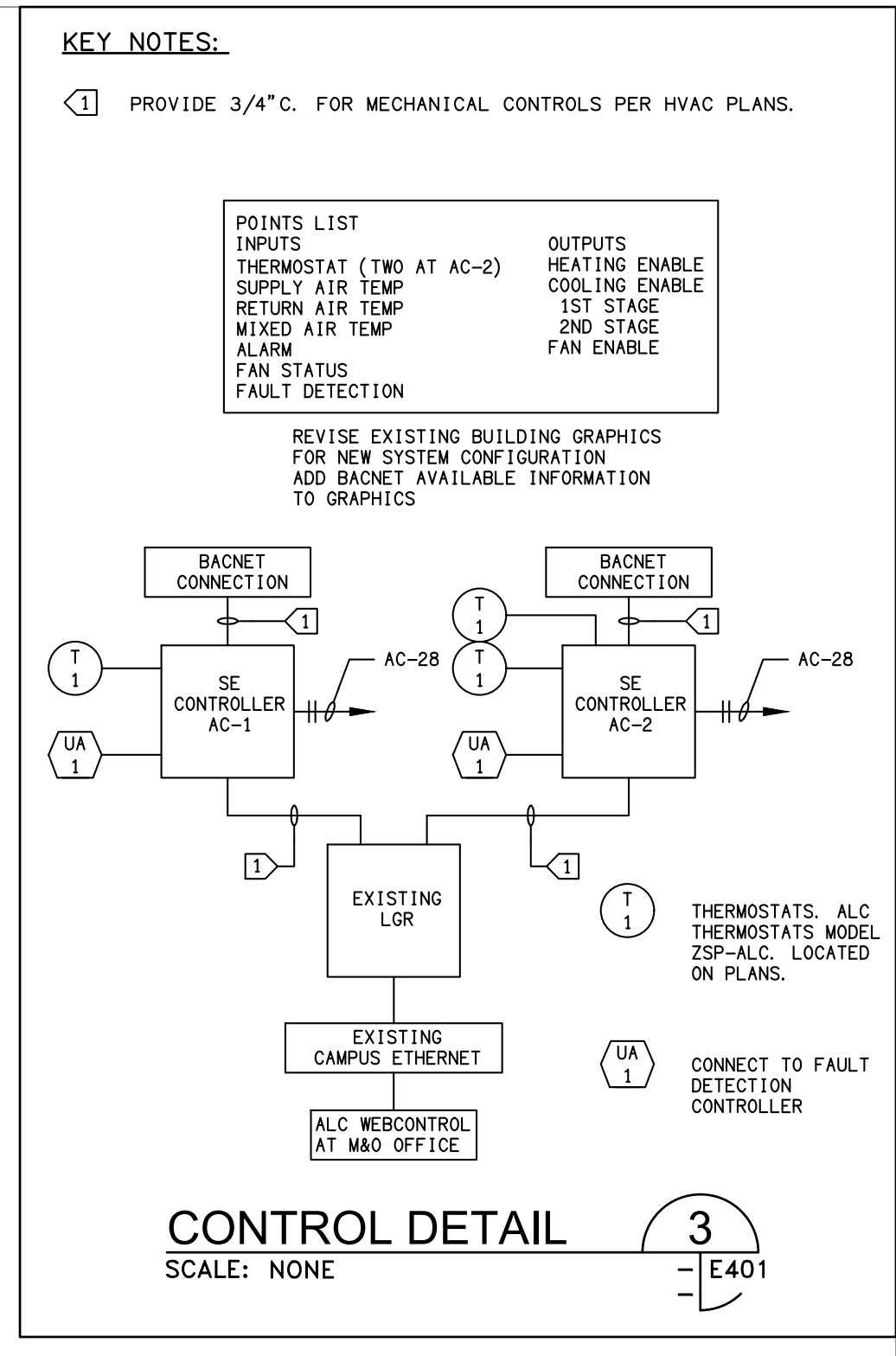
SHEET NAME	
DATE	06-25-2018
SCALE	AS SHOWN
PROJECT	17 - 405
<b>E400</b>	00
SHEET NUMBER	OF SHEETS

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**BUILDING 'E' ENLARGED FIRST FLOOR POWER PLAN**  
 SCALE: 1/2" = 1'-0"  
 EXISTING

- SHEET NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH-IN AND FINISH.
  - COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
  - CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
  - 3/4" CONDUIT MINIMUM U.O.N., 1" CONDUIT MINIMUM UNDERGROUND.
  - PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
  - PROVIDE CONTROLS FOR MECHANICAL EQUIPMENT PER MECHANICAL DOCUMENTS. VERIFY LOCATION AND REQUIREMENTS OF MECHANICAL EQUIPMENT ON MECHANICAL DOCUMENTS.
  - ALL EMT CONNECTIONS TO BE COMPRESSION AND WATERPROOF.



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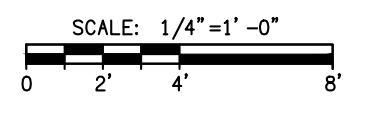
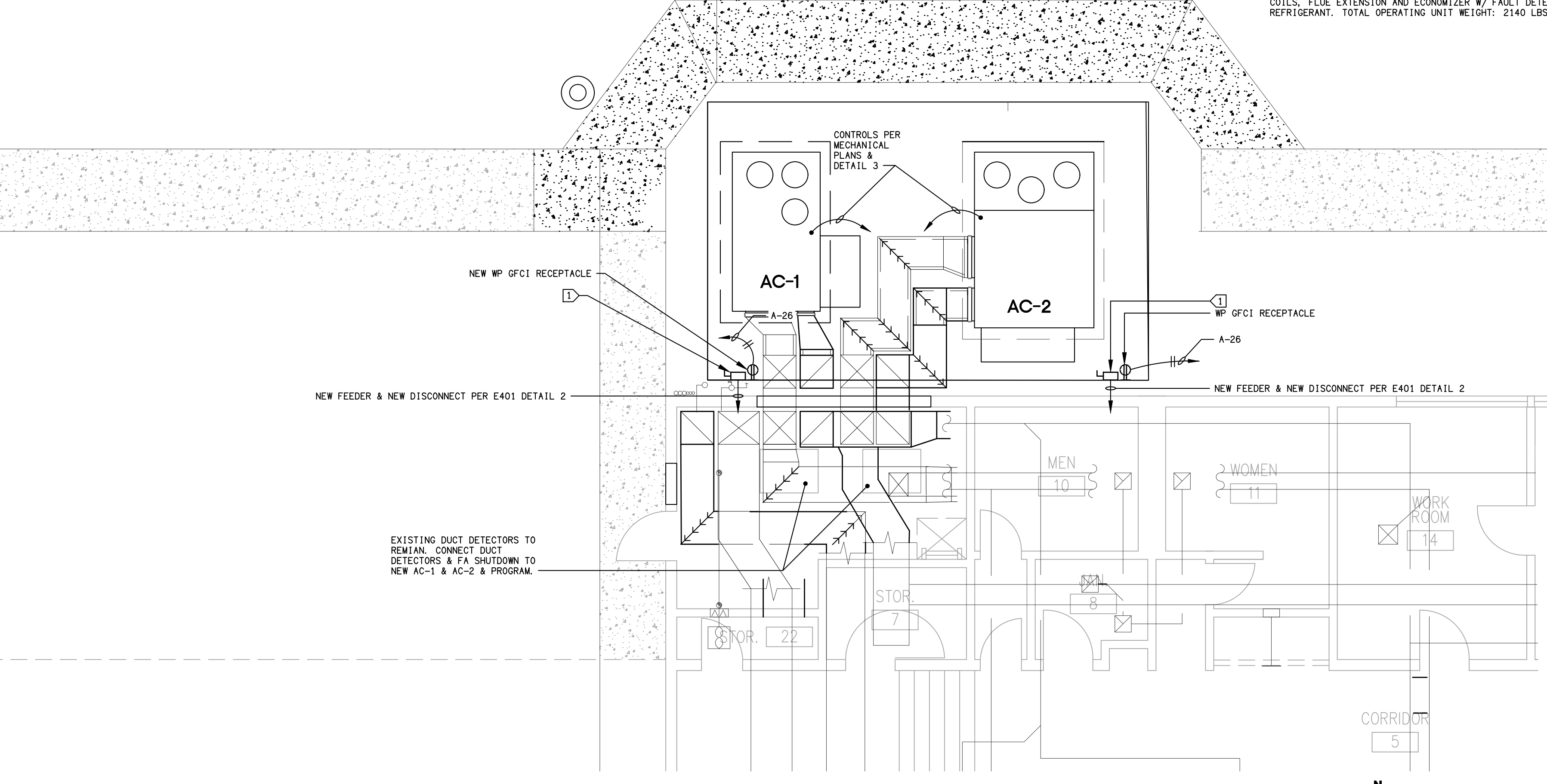
ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT												
TAG #	DESCRIPTION	H.P.	FLA	MAX OCP	VOLTAGE	PHASE	NEMA STARTER SIZE	DISCONNECT	RECOMMENDED FUSE SIZE/TYP*	REMARKS	PANEL/CIRCUIT NO.	FEEDER
AC 1	AIR CONDITIONER AC-1	---	54A	60A	208V	3	---	60A/3P	60A	NEMA 3R	AC-38-40-42	1" C-3#6 & 1#10 GND
AC 2	AIR CONDITIONER AC-2	---	64A	80A	208V	3	---	100A/3P	80A	NEMA 3R	AC-37-39-41	1-1/4" C-3#4 & 1#10 GND

\* ALL FUSES BY BUSSMANN AND SHALL BE SIZED PER MANUFACTURERS RECOMMENDATION.

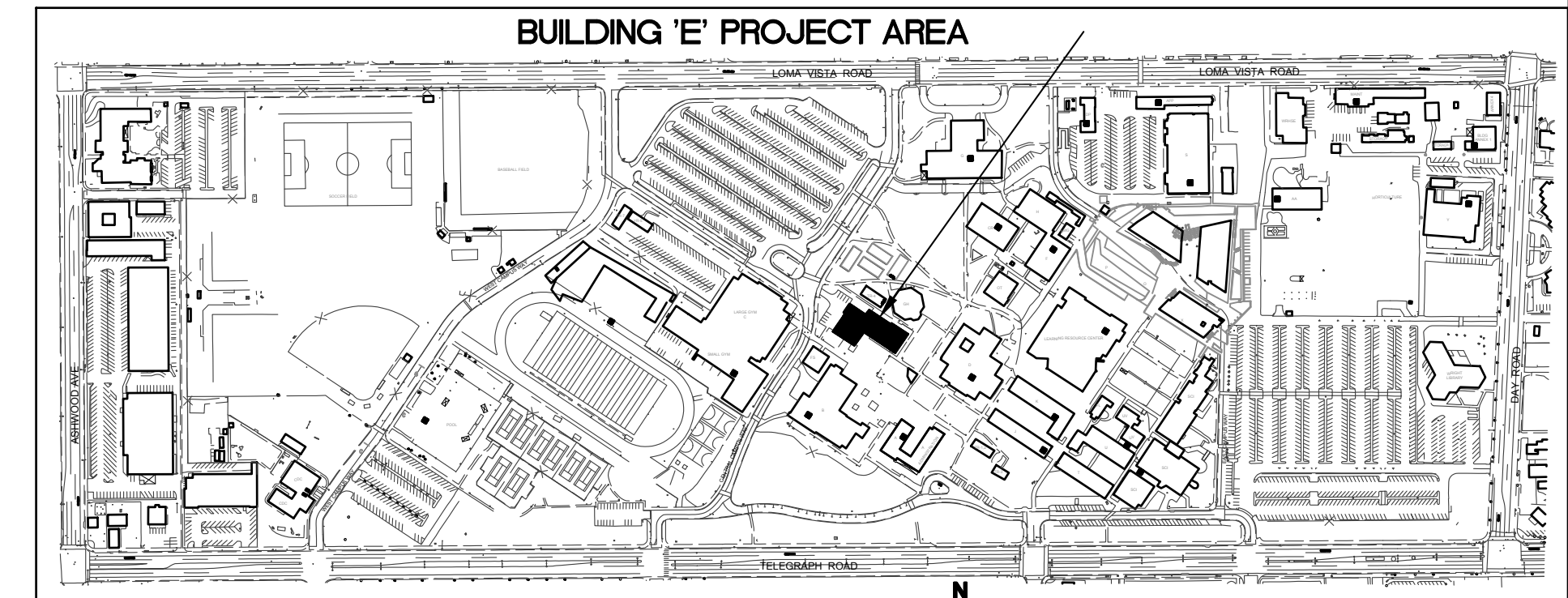
- MECHANICAL SCHEDULE**
- AC 1  
 PACKAGED UNIT, CARRIER MODEL 48LGD012K205-1A0A0, 10 TON, 4835 CFM @ 0.6" WC. HORIZONTAL FLOW, NATURAL GAS - TWO STAGE- INPUT 180,000/144,000, OUTPUT 118,000/146,000 BTUH. ELECTRICAL DATA- 208V-3-60HZ, 13.0 EER, 20.6 IEER, MCA 54 AMPS, AND MOCOP 60 AMPS. W/ E-COATED EVAP AND CONDENSER COILS, FLUE EXTENSION AND ECONOMIZER W/ FAULT DETECTION & DIAGNOSTICS. R-410A REFRIGERANT. TOTAL OPERATING UNIT WEIGHT: 1920 LBS.
- AC 2  
 PACKAGED UNIT, CARRIER MODEL 48LGD014K605-1A0A0, 12.5 TON, 6250 CFM @ 0.6" WC. HORIZONTAL FLOW, NATURAL GAS - TWO STAGE- INPUT 176,000/141,000, OUTPUT 143,000/146,000 BTUH. FLUE EXTENSION, ELECTRICAL DATA- 208V-3-60HZ, 12.4 EER, 19.1 IEER, MCA 64.1 AMPS, AND MOCOP 80 AMPS. W/ E-COATED EVAP AND CONDENSER COILS, FLUE EXTENSION AND ECONOMIZER W/ FAULT DETECTION & DIAGNOSTICS. R-410 REFRIGERANT. TOTAL OPERATING UNIT WEIGHT: 2140 LBS.

- SHEET NOTES:**
- FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
  - SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
  - ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
  - THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C. ARTICLE 351-8.
  - PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
  - PROVIDE ALL DEVICES AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
  - ALL DISCONNECTS SHALL BE MOUNTED ON UNISTRUT ON WALL WITH NFPA 70 ARTICLE 110-26 WORKING CLEARANCE OF 3'-0" DEEP X 3'-0" WIDE X 68" HIGH.
  - CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH-IN & INSTALLATION.
  - EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED & INSTALLED.
- DETAIL NOTES:**
- EXISTING FIRE SMOKE DAMPERS TO REMAIN
  - INSTALL NEW CONDUIT FOR THERMOSTATS

- KEY NOTES:**
- DISCONNECTS & FEEDERS PER SCHEDULE E420, PROVIDE 3' 0" CLEAR IN FRONT OF DISCONNECT PER CEC 110.26.
  - PROVIDE 3/4" C & CONTROLS PER MECHANICAL.
  - W.P. GFCI.
  - FOR FEEDER AND DISCONNECT INFORMATION SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT THIS SHEET.



**BUILDING 'E' FIRST FLOOR POWER PLAN - NEW WORK**  
 SCALE: 1/4" = 1'0"  
 EXISTING



**KEY MAP**

VENTURA COUNTY  
 COMMUNITY  
 COLLEGE DISTRICT

VENTURA COLLEGE  
 4667 Telegraph Road  
 Ventura, CA 93003

DEPARTMENT OF  
 MAINTENANCE &  
 OPERATIONS  
 71 Day Road  
 Ventura, CA 93003

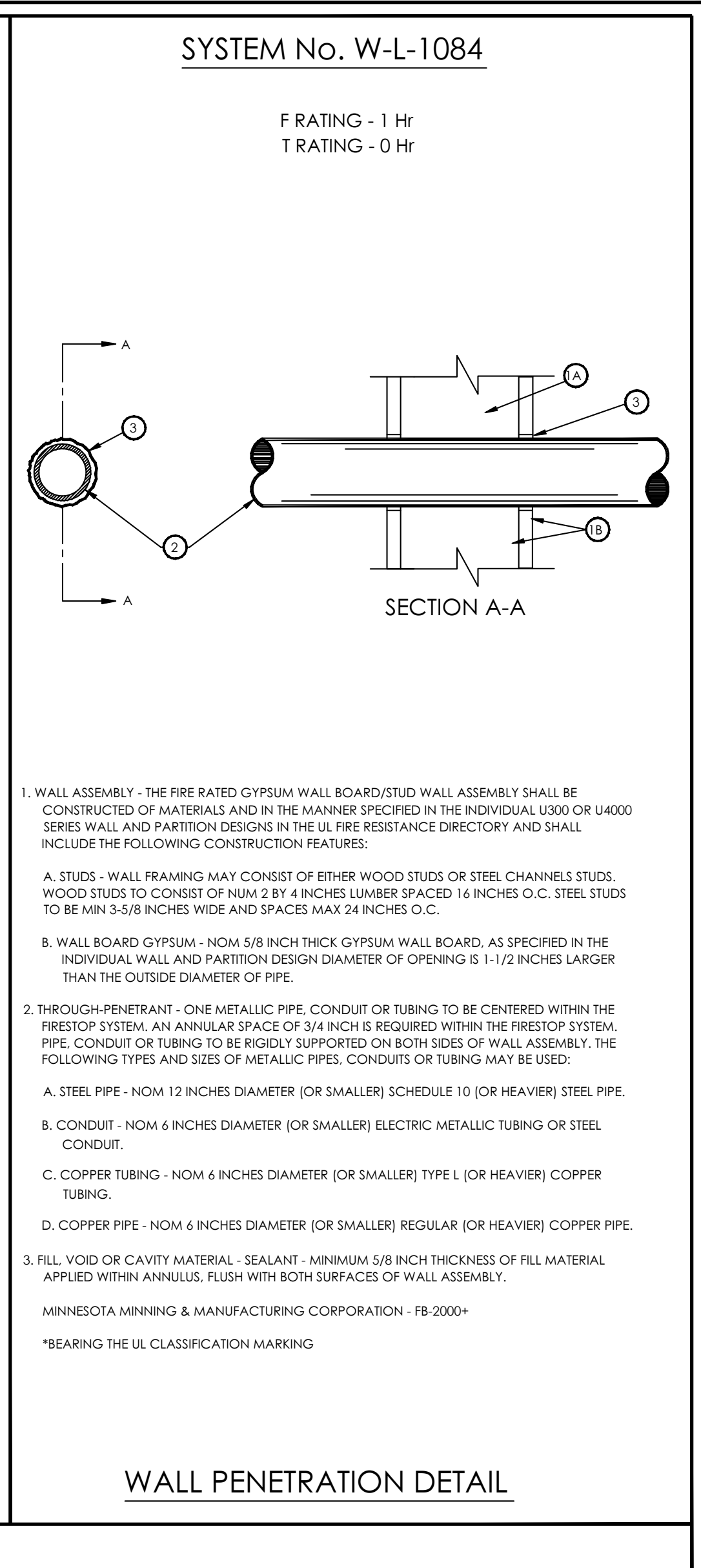
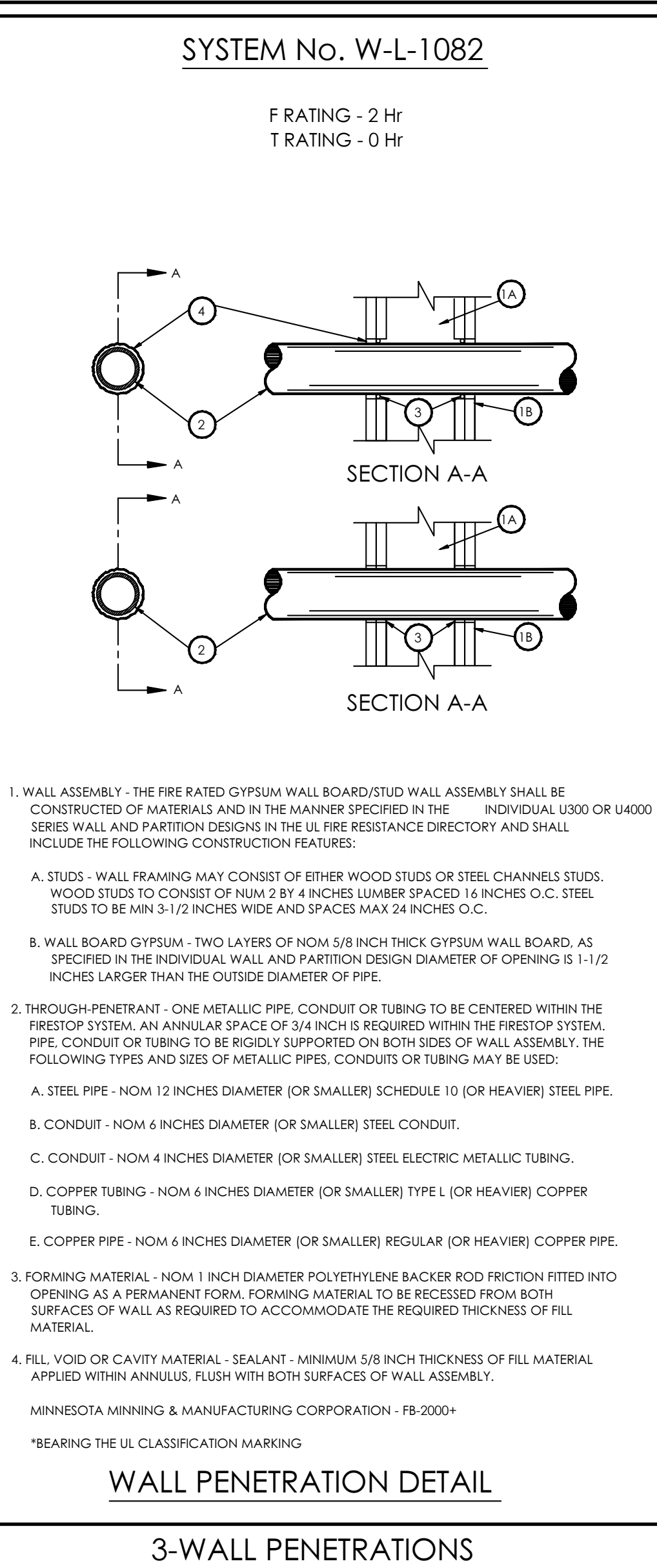
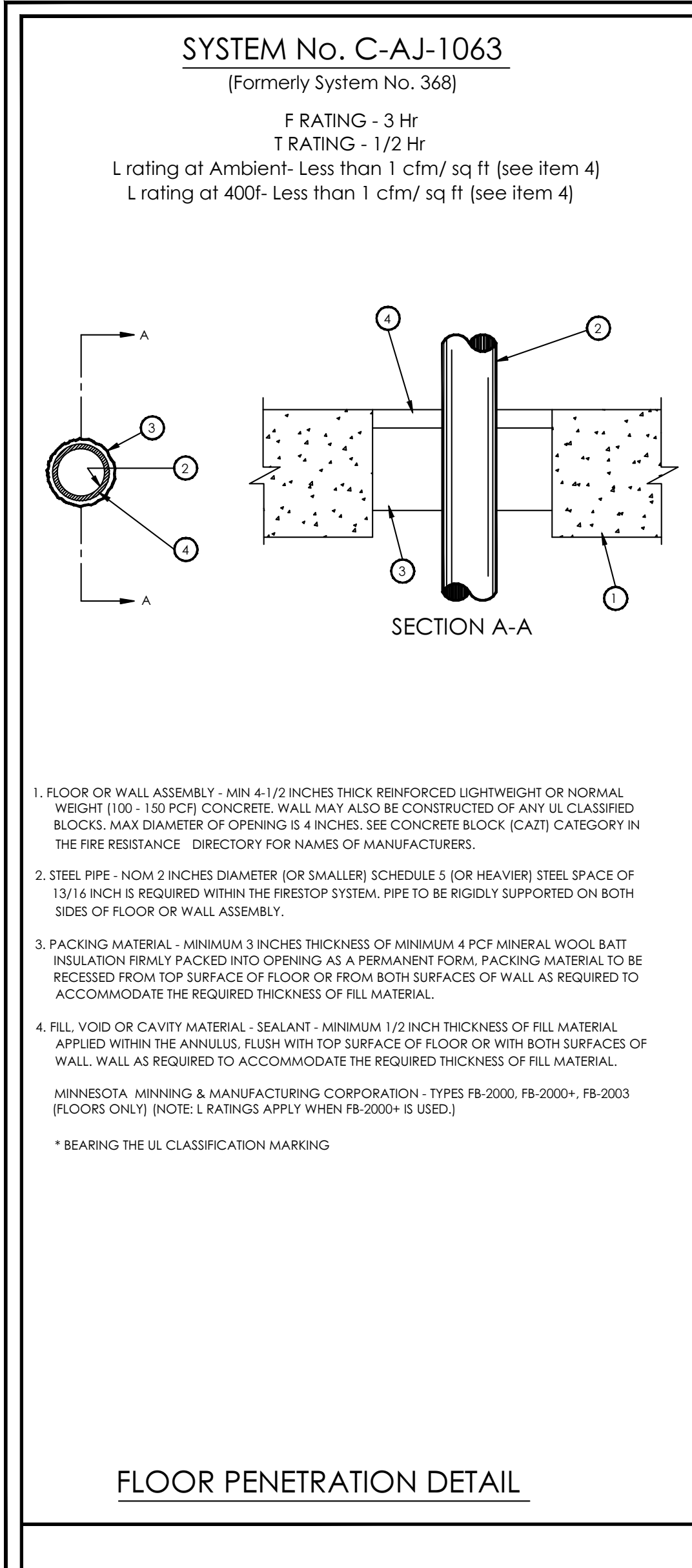
PROJECT DIRECTORY

ELECTRICAL ENGINEER:  
 KEN LUCCHI

A-25814

BOOK STORE/STUDENT BUSINESS OFFICE BUILDING 'E' ENLARGED FIRST FLOOR POWER PLAN	
SHEET NAME	
DATE	06-25-2018
SCALE	AS SHOWN
PROJECT	17 - 405
<b>E401</b>	00
SHEET NUMBER	OF SHEETS

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**EXISTING FIRE ALARM SYSTEM IS COMPLETE BUILDING (FULLY ADDRESSABLE)**

**SCOPE OF WORK**  
CONNECT & PROGRAM DEVICES TO EXISTING ADDRESSABLE FIRE ALARM SYSTEM, AUTOMATIC TYPE

**FIRE ALARM N.A.C. DEVICE NUMBERING KEY**  
H1-5  
NUMBER OF DEVICE IN CIRCUIT OR CIRCUIT NUMBER (NUMBERING STARTS AGAIN AT EACH "FGPS")  
NOTIFICATION APPLIANCE CIRCUIT TYPE (H=HORN, V=VISUAL)

**FIRE ALARM ADDRESSABLE DEVICE IDENTIFICATION KEY**  
1D-015 (IDENTIFICATION MATCHES ACTUAL LED DISPLAY IN "FACP" OR "ANN")  
3-DIGIT NUMBER OF ADDRESSABLE DEVICE  
"D" DESIGNATED ADDRESSABLE "DEVICE". "M" DESIGNATED "MONITOR" MODULE.  
SLC LOOP NUMBER

**SEQUENCE OF OPERATIONS**

ACTION	DEVICE													
	ACTIVATE COMMON ALARM SIGNAL INDICATOR	ACTIVATE AUDIBLE ALARM AT FAUP	ACTIVATE BUILDING GENERAL ALARM	ACTIVATE COMMON TROUBLE SIGNAL INDICATOR	ACTIVATE AUDIBLE TROUBLE AT FAUP	ACTIVATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTIVATE DISTINCT AUDIBLE SUPERVISOR AT FAUP	DISPLAY CHANGE OF STATUS MESSAGE ON LCD DISPLAY	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	ACTIVATE LOCAL 120 VAC SPRINKLER BELL	SYSTEM WILL BE LOCK OPERATIONAL (UP TO 65 HOURS) ON BATTERY BACKUP	ACTIVATE HVAC SHUTDOWN ALL UNITS OVER 6500 CFM
MANUAL PULL STATIONS	•	•	•										•	
SMOKE DETECTORS	•	•	•											•
FIRE ALARM SYSTEM AC POWER FAIL				•	•			•						
FIRE ALARM SYSTEM LOW BATTERY				•	•			•		•				
HEAT DETECTORS	•	•	•											•
DUCT DETECTORS														•

**REQUIRED NOTES**

THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRIC CODE.

INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY THE CALIFORNIA DEPT. OF THE STATE ARCHITECT'S FIRE MARSHAL.

UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE BY INSTALLATION TECHNICIAN PER CFC 901.2.1. PROVIDE STATEMENT OF COMPLETION WHEN WITNESSING FOR THE FINAL TEST BY IOR & LOCAL A.H.U. IN THE PRESENCE OF THE LOCAL A.H.U. OR SSS FIELD ENGINEER, OWNER AND ENGINEER OF RECORD.

A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.

ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.

A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND RETAINED ON SITE/PREMISES FOR 5 YEARS PER CFC 901.6.2 / TITLE 19 USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES SHALL BE APPROVED BY THE DSA PLS.

ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE, OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.

A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.

COMPLETE THE NFPA 72 RECORD OF COMPLETION, TESTING ALL DEVICES AND APPLIANCES. PROVIDE A COPY OF THE COMPLETED RECORD OF COMPLETION TO THE OWNER (SCHOOL DISTRICT), ARCHITECT, LOCAL FIRE AUTHORITY AND DSA VIA THE PROJECT INSPECTOR.

**BATTERY CALCULATIONS FACP & ASSOCIATED DEVICES**

STANDBY				ALARM			
PRODUCT MODEL #	QTY.	UNIT	TOTAL	QTY.	UNIT	TOTAL	
15cd STROBE	4	--	--	4	0.043	0.172	
60cd STROBE	1	--	--	1	0.131	0.131	
15cd HORN/S	1	--	--	1	0.114	0.114	
60cd HORN/S	1	--	--	1	0.201	0.201	
110cd HORN/S	2	--	--	2	0.205	0.410	
SMOKE	1	0.0003	0.0003		0.0083	0.0083	
Exterior Bell	6	--	--	6	0.03	0.18	
FACP	1	--	0.048	1	0.048	0.048	
SUBTOTAL 0.0483				SUBTOTAL 1.2563			
X 4 HRS= 0.193 AH				X(0.498) 30MIN 0.626			
STANDBY 0.193 AH				ALARM 0.626 AH			
TOTAL 0.819 AH				BATTERY CAPACITY PROVIDED 7.000 AH			
SPARE CAPACITY 6.181 AH							

(--)= DOES NOT DRAW CURRENT FROM BATTERIES OR CURRENT DRAW INCLUDED IN MAIN PANEL CARDS.

**FIRE ALARM ZONE SCHEDULE**

THE FIRE ALARM SYSTEM IS A FIRE CONTROL INSTRUMENTS 7100 SERIES ADDRESSABLE TYPE. EACH INITIATING DEVICE IS ANNUNCIATED AS A UNIQUE ADDRESS OR ZONE AT THE PANEL AND ANNUNCIATOR.

**F.A. RACEWAY SIZING**

MINIMUM CONDUIT SIZE SHALL BE 3/4" DIAMETER AND SHALL NOT EXCEED 40% FILL.

**PROJECT NOTES**

GENERAL NOTES:  
 1. ALL WIRE SHALL BE IN CONDUIT  
 2. ANY CHANGES IN THE WIRING SHALL BE VERIFIED BY FCI  
 3. MANUAL PULL STATIONS TO BE MOUNTED AT 48 IN. ABOVE FLOOR SURFACE TO THE CENTER OF THE STATION. (DETAIL 1)  
 4. MOUNT AUDIO VISUAL 80 IN. ABOVE FINISHED FLOOR TO THE BOTTOM OF THE LIGHT OR 6" FROM BELOW CEILING WHICH EVER IS LOWER. (DETAIL 2)  
 5. MAINTAIN WIRING COLOR CODES.  
 6. ALL WIRING TO BE AS CALLED FOR IN N.E.C. ARTICLE 760.  
 7. IDENTIFY THE FIRE ALARM CIRCUIT AT THE ELECTRICAL PANEL IN RED, PROVIDE A BREAKER LOCKON DEVICE.  
 8. DEVICE TYPES AND LOCATIONS ARE SHOWN AS CALLED FOR ON THE BID DOCUMENTS.

**APPLICABLE CODES**

2016 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2016 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (2015 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA AMENDMENTS)

2016 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 (2014 NATIONAL ELECTRICAL CODE (NEC) W/CALIFORNIA AMENDMENTS) 2016 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2016 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 (2015 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS)

2016 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12

AMERICANS WITH DISABILITIES ACT (ADA) TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG) 1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

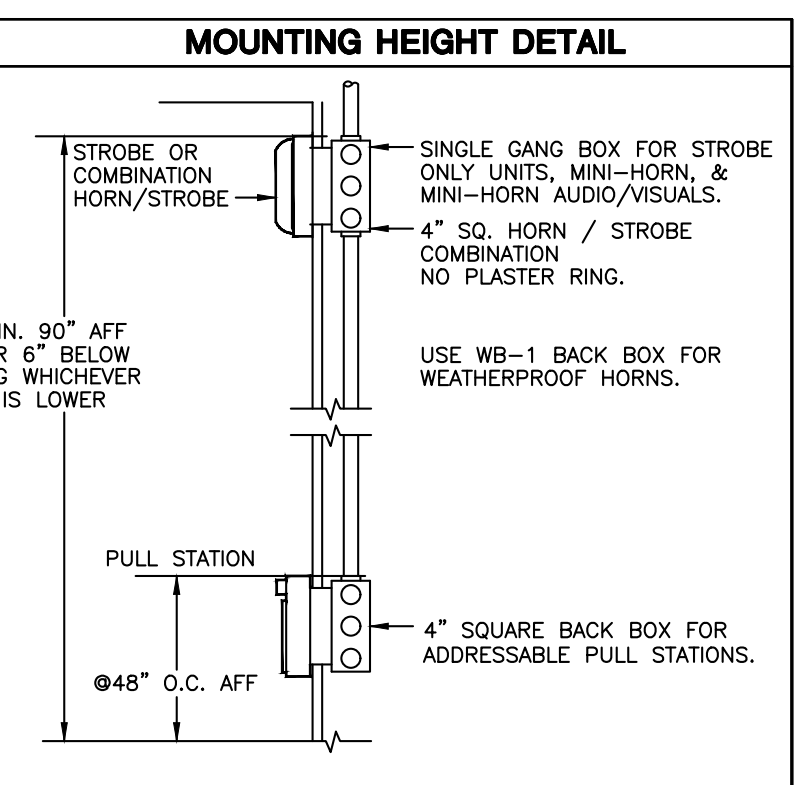
2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART 11, TITLE 24 C.C.R.

2016 CALIFORNIA MECHANICAL CODE (CMC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 (2015 UNIFORM MECHANICAL CODE (UMC) W/CALIFORNIA AMENDMENTS)

2016 CALIFORNIA PLUMBING CODE (CPC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 (2015 UNIFORM PLUMBING CODE (UPC) W/CALIFORNIA AMENDMENTS)

2013 TITLE 19 CALIFORNIA CODE OF REGULATIONS (CCR) PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2016 NFPA 72 NATIONAL FIRE ALARM CODE



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**ROY E. COLBERT, INC.**  
 CONSULTING ELECTRICAL ENGINEERS  
 3251 CORTE MALPASO, #511  
 CAMARILLO, CA 93012-8094  
 (805) 389-6500 FAX (805) 389-6519  
 Web Site <http://www.tucciland.com>

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**VENTURA COUNTY COMMUNITY COLLEGE DISTRICT**

**VENTURA COLLEGE**  
 4667 Telegraph Road  
 Ventura, CA 93003

**DEPARTMENT OF MAINTENANCE & OPERATIONS**  
 71 Day Road  
 Ventura, CA 93003

**PROJECT DIRECTORY**

ELECTRICAL ENGINEER:  
 KEN LUCCI

---

**BOOK STORE/STUDENT BUSINESS OFFICE BUILDING 'E' FIRE ALARM COVER SHEET**

SHEET NAME

DATE 06-25-2018

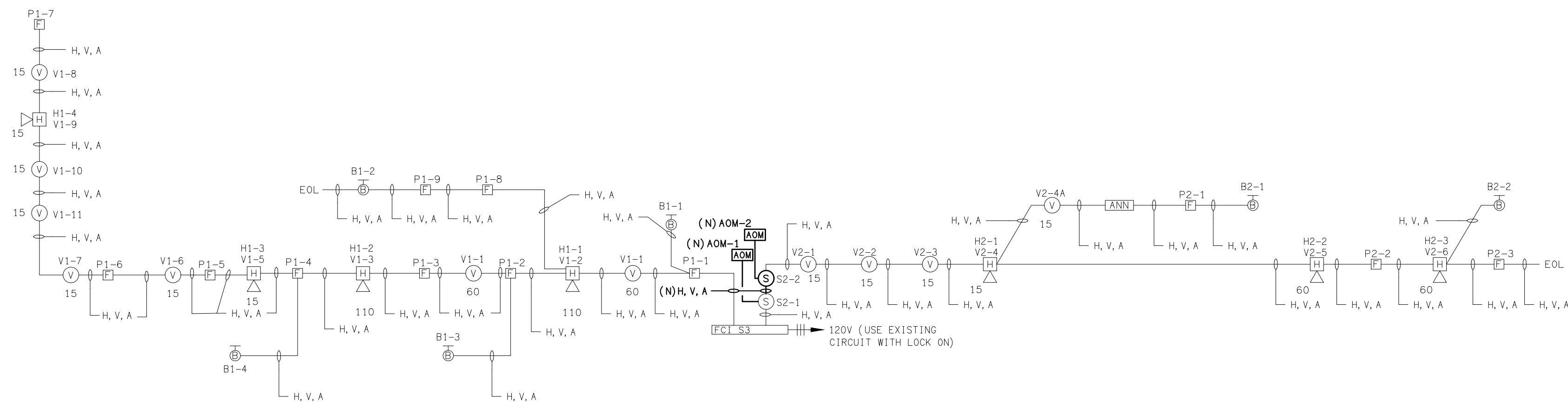
SCALE AS SHOWN

PROJECT 17 - 405

**E500** OF 00 SHEETS

L.A.I.# 17405 PAPER SIZE 42"x30"

DATE: 9 July 2018  
 TIME: 9:19 am  
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 DRAFTER: cm04  
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**FIRE RISER DIAGRAM 2**  
SCALE: NONE

- SHEET NOTES:**
1. VERIFY LOCATION OF ALL DEVICES ON PLANS.
  2. 3/4" CONDUIT MINIMUM UNLESS OTHERWISE NOTED.
  3. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL FIRE ALARM DEVICE CABLING PER CABLE MANUFACTURERS RECOMMENDATIONS.
  4. MAXIMUM 270 DEGREE OF BEND BETWEEN PULL POINTS.
  5. RUN FIRE ALARM CABLING IN CABLE TRAY TO MAXIMUM EXTENT POSSIBLE. WHERE CABLING IS NOT IN CABLE TRAY, CABLE SHALL BE IN CONDUIT.
  6. UNIQUELY LABEL BOTH ENDS OF ALL CABLING.

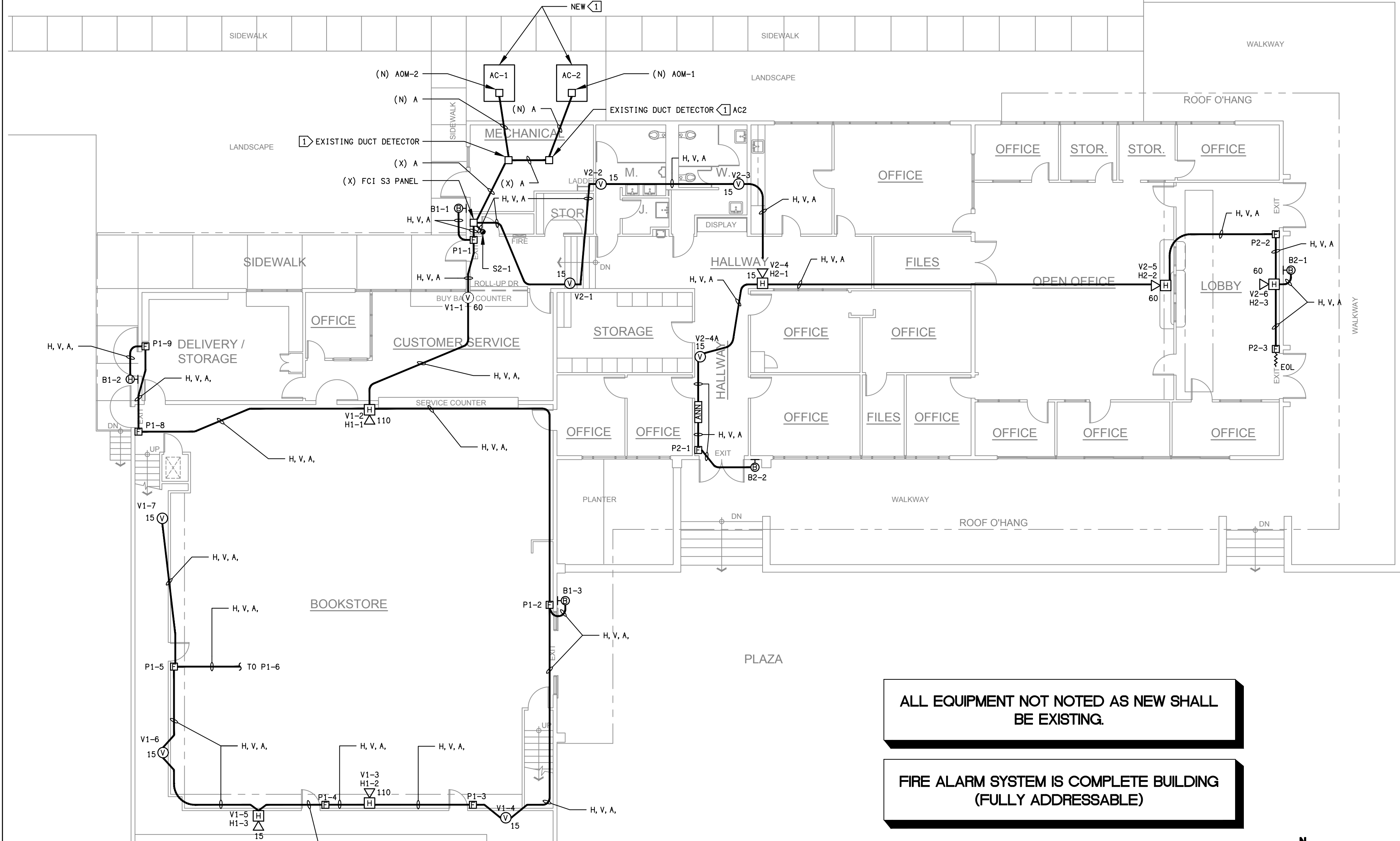
FIRE ALARM EQUIPMENT SCHEDULE				
SYMBOL	DEVICE	MFR. & CAT. NO.	NOTES: REMARKS	CSFM LISTING NO.
FACP	FIRE ALARM CONTROL PANEL	FCI S3	ADDRESSABLE ANALOG W/ BATTERIES IN-7100, SEE CALCS FOR BATTERY	7165-1703:0176
ANN	REMOTE ANNUNCIATOR	FCI LCD-7100	PROVIDE W.P. ENCLOSURE WHERE MTD OUTSIDE	7120-1703:0137
B/C	BATTERY CABINET	FCI#BC1	W/ BATTERIES SIZED PER CALCS.	-
CM	CONTROL MODULE	FCI AOM-2R FCI AOM-2S	ADDR. OUTPUT MODULE	7300-1703:0102
MM	MONITOR MODULE	FCI AMM.2	ADDR. MONITOR MODULE	7300-1703:0102
SM	SYNC MODULE	CW DSM-12/24-12	-	7300-0785:0132
F	MANUAL FULL STATION	MS-2	ADDR MODULE ON WEATHERPROOF STATION W/ REPLACEMENT GLASS ROOS	7150-0785:0153
H	INTERIOR HORN	MIZ-24R	WBB,W.P. BACKBOX (.035)	7135-0785:0150
15	INTERIOR HORN STROBE 15 CANDELA (Cd)	CW#ETMCW	FIELD SELECTABLE HORN OPTIONS (0.041A) TEMPORAL 3 CODE	7125-0785:0152
30	INTERIOR HORN STROBE 30 CANDELA (Cd)	CW#ETMCW	FIELD SELECTABLE HORN OPTIONS (0.065A) TEMPORAL 3 CODE	7125-0785:0152
60	INTERIOR HORN STROBE 60 CANDELA (Cd)	CW#ETMCW	FIELD SELECTABLE HORN OPTIONS (0.116A) TEMPORAL 3 CODE	7125-0785:0152
110	INTERIOR HORN STROBE 110 CANDELA (Cd)	CW#ETMCW	FIELD SELECTABLE HORN OPTIONS (0.155A) TEMPORAL 3 CODE	7125-0785:0152
15	INTERIOR WALL MTD STROBE 15 CANDELA (Cd)	CW RSS 24MCW	15 cd (0.041A)	7125-0785:0141
30	INTERIOR WALL MTD STROBE 30 CANDELA (Cd)	CW RSS 24MCW	30 cd (0.062A)	7125-0785:0141
60	INTERIOR WALL MTD STROBE 60 CANDELA (Cd)	CW RSS 24MCW	60 cd (0.116A)	7125-0785:0141
110	INTERIOR WALL MTD STROBE 110 CANDELA (Cd)	CW RSS 24MCW	110 cd (0.155A)	7125-0785:0141
C 15	INTERIOR HORN STROBE CEILING MT. 15 Cd	CW ET 24MCC	WHITE 0.045A	7125-0785:0152
C 30	INTERIOR HORN STROBE CEILING MT. 30 Cd	CW ET 24MCC	WHITE 0.072A	7125-0785:0152
C 60	INTERIOR HORN STROBE CEILING MT. 60 Cd	CW ET 24MCC	WHITE 0.128A	7125-0785:0152
C 110	INTERIOR HORN STROBE CEILING MT. 110 Cd	CW ET 24MCC	WHITE 0.171A	7125-0785:0152
H	EXTERIOR HORN	SYSTEM SENSOR	-	7135-1653:0189

REVISIONS

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2		
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**LUCCI & ASSOCIATES INC.**  
CONSULTING ELECTRICAL ENGINEERS  
3251 CORTE MALPASO, #511  
CAMARILLO, CA 93012-8094  
(805) 389-6500 FAX (805) 389-6519  
Web Site <http://www.luciland.com>

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**ALL EQUIPMENT NOT NOTED AS NEW SHALL BE EXISTING.**

**FIRE ALARM SYSTEM IS COMPLETE BUILDING (FULLY ADDRESSABLE)**

**BUILDING 'E' FIRST FLOOR FIRE ALARM PLAN 1**  
SCALE: 1/8" = 1'-0"

VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

VENTURA COLLEGE  
4667 Telegraph Road  
Ventura, CA 93003

DEPARTMENT OF MAINTENANCE & OPERATIONS  
71 Day Road  
Ventura, CA 93003

PROJECT DIRECTORY

ELECTRICAL ENGINEER:  
KEN LUCCI

BOOK STORE/STUDENT BUSINESS OFFICE BUILDING 'E' FIRST FLOOR FIRE ALARM PLAN

SHEET NAME

DATE: 06-25-2018

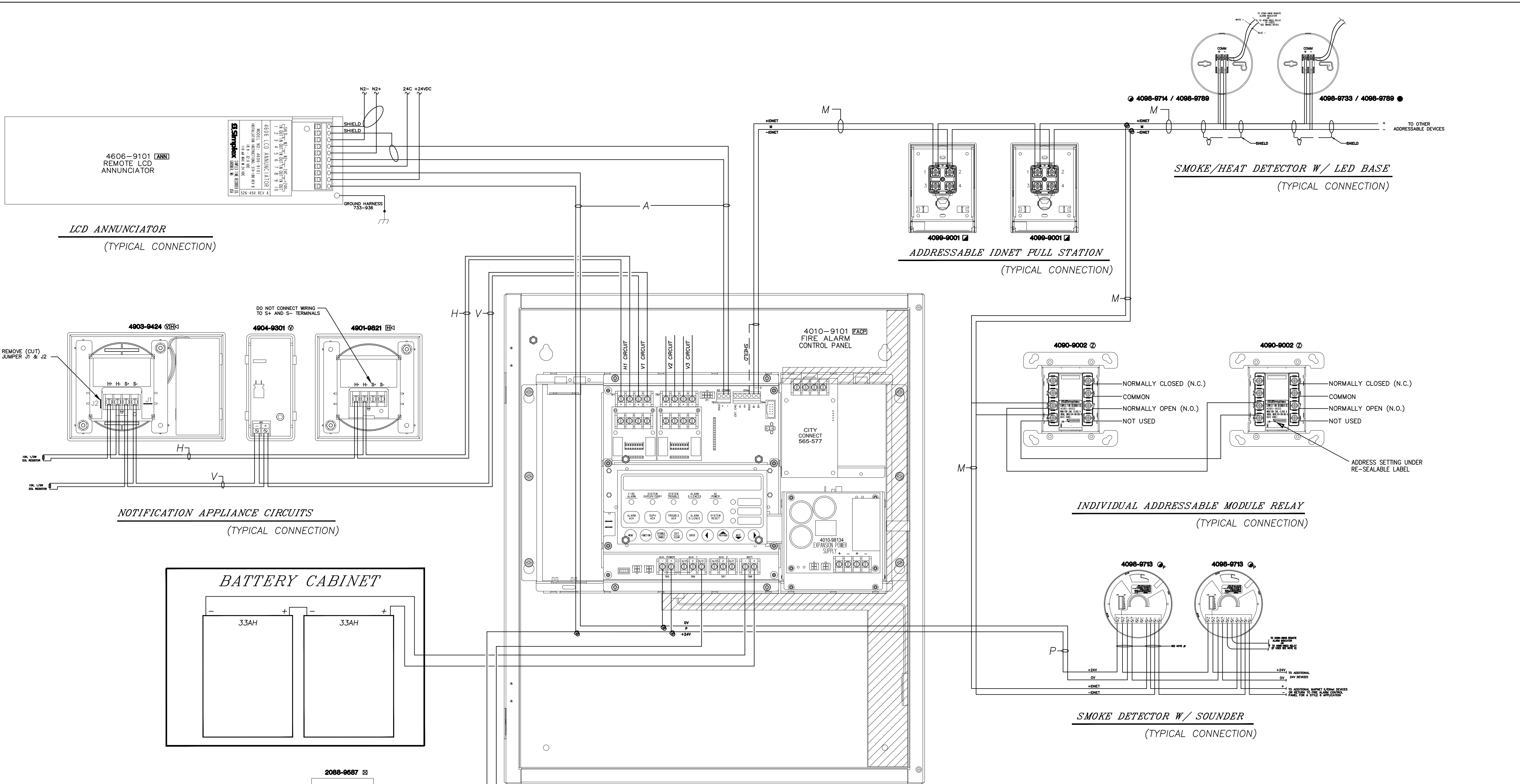
SCALE: AS SHOWN

PROJECT: 17 - 405

**E501** OF 00 SHEETS

L.A.I.# 17405 PAPER SIZE 42"x30"

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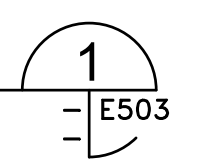
### FIRE ALARM PANEL WIRING DETAIL

- GENERAL NOTES:**
1. ALL WIRING TO BE 14 GAUGE THHN OR 1975 WEST PENN OR EQUAL UNLESS NOTED OTHERWISE.
  2. CONDUCTORS MUST BE FREE OF ALL GROUNDS.
  3. ALL WIRING TO BE SUPERVISED UNLESS OTHERWISE NOTED.
  4. ALL DEVICE WIRING TO BE TERMINATED TO APPROPRIATE POINT.
  5. A SYSTEM GROUND MUST BE PROVIDED FOR EARTH DETECTION AND TRANSIENT PROTECTION OF DEVICES. THIS CONNECTION SHALL BE MADE TO AN APPROVED DEDICATED EARTH CONNECTION PER NFPA 70, ARTICLE 250, AND NFPA 78.
  6. MOUNT A 24" X 24" X 4" TERMINAL CABINET ABOVE THE FACP WITH TERMINAL STRIPS FOR TERMINATING WIRING. DO NOT USE FACP FOR WIRE NUT TERMINATIONS.
  7. SCHEDULE TECHNICIAN TO SUPERVISE CONNECTIONS.

WIRE CHART							
SYMBOL	CIRCUIT USE	DESCRIPTION	BSC# INDOOR	O.D.	COLOR	BSC# OUTDOOR	O.D.
M	IDNET COMMUNICATION LINE	1 TSP #18	S1802S17	0.234	BLACK/RED	S1602S33	.300
P	24 VDC POWER	2#14 AWG/THHN	N/A	N/A	BLACK/RED	S1402S33	.340
H	HORN CIRCUIT	2#14 AWG/THHN	2#14 THHN	N/A	BLACK/RED	S1402S33	.340
V	STROBE CIRCUIT	2#12 AWG/THHN	2#12 THHN	N/A	BLACK/RED	S1202S33	.380
A	ANNUNCIATOR CIRCUIT	1 TSP #18 + 2#14	S1802S17+2#14 THHN	0.234	BLACK/RED	S1602S33	.300
D	DOOR HOLDER CIRCUIT	2#14 AWG/THHN	2#14 THHN	N/A	BLACK/RED	S1402S33	.340

TSP = TWISTED SHIELDED PAIR

**FIRE ALARM DETAILS**  
SCALE: NONE



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CAMARILLO, CA 93012-8094  
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Ventura, CA 93003

PROJECT DIRECTORY

ELECTRICAL ENGINEER:  
KEN LUCCHI

BOOK STORE/STUDENT  
BUSINESS OFFICE  
BUILDING 'E'  
FIRE ALARM DETAILS AND  
FIRE RISER DIAGRAM

DATE	PROJECT
06-25-2018	17 - 405
AS SHOWN	<b>E503</b>
	OF SHEETS

**FIRE ALARM SYSTEM IS COMPLETE BUILDING  
(FULLY ADDRESSABLE)**