



REVISION:	DATE:

FIRE ALARM MODERNIZATION

YERBA BUENA HIGH SCHOOL

155 LUCRETIA AVENUE

SAN JOSE, CA 95122

OWNER:
East Side Union
High School District
830 North Capital Ave
San Jose, CA 95133
P: (408)347-5000
F: (408)347-5045

GENERAL CONTRACTOR:
Gonsalves & Stronck Const. Co., Inc.
1000 Washington Street
San Carlos, CA 94070-5319
P:

FIRE ALARM CONSULTANT:
INTREPID
6300 San Ignacio Ave.
San Jose, CA 95119-1213
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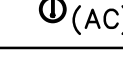
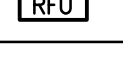
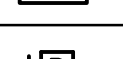
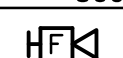
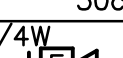
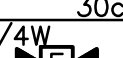
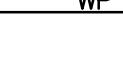
ELECTRICAL CONTRACTOR:
Smith & Sons Electric, Inc.
44081 South Grimmer Blvd.
Fremont, CA 94538-6382
P: (510) 651-4994

JOB NO.:	16021
DRAWN BY:	AP
DATE:	05-23-2016
ENG. APPROVAL:	DAVID KUNG
PM APPROVAL:	DAVID KUNG
SCALE:	AS SHOWN

SHEET TITLE:
FIRE ALARM
GENERAL INFORMATION

SHEET NO.:

FA0.0

FIRE ALARM LEGEND				
SYMBOL	QTY	MODEL NO.	DESCRIPTION	CSFM LISTING NO.
	1 EA.	GAMEWELL-FCI E3 SERIES	ADDRESSABLE FIRE ALARM CONTROL PANEL, LETTER ADJACENT INDICATES STYLE OF PANEL AS FOLLOWS: STYLE 'A' INCLUDES: 600XL RETROFIT, E3-1L1-C PLATE, IL95-MB-E3, PM-9, 100-0450, RPT-E3-UTP, FML-E3(X2). STYLE 'D' INCLUDES: E3BB-RD/INCC, E3-INCC-D PLATE E3D2-D, LCD-E3, PM-9, IL95-MB-E3, 1100-0450(X4), 1100-0455, DACT-E3, RPT-E3-UTT(X2), FML-E3(X2) STYLE 'D1' INCLUDES: STYLE 'D' + IL1-S-E3 STYLE 'E' INCLUDES: 7200-C RETROFIT, E3-INCC-D PLATE, IL1-MB-E3, PM-9, 1100-0450(X4), INI-VGX, AM-50-70(X2), E3-INX-D PLATE, 90521 STYLE 'F' INCLUDES: INX-CAB-C, E3BB-RC/INX, E3-INX-C RATE, 90375, PM-9, 1100-1323, AM-50-70(X2), 90521, IL1-MB-E3 STYLE 'F1' INCLUDES: STYLE 'F' + IL95-S-E3	7165-1703:0125
	1	GAMEWELL-FCI E3 SERIES LOC	LOCAL OPERATING CONSOLE	7165-1703:0125
		GAMEWELL-FCI HPFF8	REMOTE NAC POWER SUPPLY	7135-1637:0102
		GAMEWELL-FCI ASD-PL2F	SMOKE DETECTOR, ADDRESSABLE, PHOTOELECTRONIC TYPE	7272-1703:0121
		GAMEWELL-FCI	ADDRESSABLE HEAT DETECTOR, LETTERS ADJACENT INDICATE ABOVE CEILING	-
-		GAMEWELL-FCI B2/EOLP	SMOKE/HEAT DETECTOR MOUNTING BASE	7272-1703:0121
		GAMEWELL-FCI ASD-PL2F-DNR	DUCT SMOKE DETECTOR + HOUSING	7272-1703:0121
		GAMEWELL-FCI ABD-2F/RT2P	ADDRESSABLE PROJECTED BEAM SMOKE SENSOR	7260-1703:0120
		AES	RF SUBSCRIBER UNIT	-
		GAMEWELL-FCI PID-95	ADDRESSABLE MONITOR MODULE	7300-1288:147
			END OF LINE DEVICE	-
		GAMEWELL-FCI MS-7	ADDRESSABLE MANUAL PULL STATION	7150-1703:01
	30cd	GAMEWELL-FCI SCR	CEILING MOUNTED MULTI-CANDELA STROBE, NUMBERS & LETTERS ADJACENT INDICATE CANDELA SETTING	7125-1653:0188
	30cd	GAMEWELL-FCI SR	WALL MOUNTED MULTI-CANDELA STROBE, NUMBERS & LETTERS ADJACENT INDICATE CANDELA SETTING	7125-1653:0188
	1/4W 30cd	GAMEWELL-FCI SPSCR	CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE DEVICE NUMBERS & LETTERS ADJACENT INDICATE CANDELA SETTING OF STROBE AND SPEAKER SOUND OUTPUT	7300-1653:201
	1/4W 30cd	GAMEWELL-FCI SPSR	SAME AS CEILING MOUNTED MULTI-CANDELA SPEAKER/STROBE DEVICE, EXCEPT WALL MOUNTED	7300-1653:201
	1/4W 30cd	GAMEWELL-FCI SPCR	CEILING MOUNTED FIRE ALARM SPEAKER, NUMBERS & LETTERS ADJACENT INDICATE SPAEKER SOUND OUTPUT	7300-1653:201
	1/4W	GAMEWELL-FCI SPR	WALL MOUNTED INDOOR FIRE ALARM SPEAKER, NUMBERS & LETTERS ADJACENT INDICATE SPEAKER SOUND OUTPUT	7300-1653:201
	1/2W	GAMEWELL-FCI SPRK	WALL MOUNTED INDOOR FIRE ALARM SPEAKER, NUMBERS & LETTERS ADJACENT INDICATE SPEAKER SOUND OUTPUT	7300-1653:201

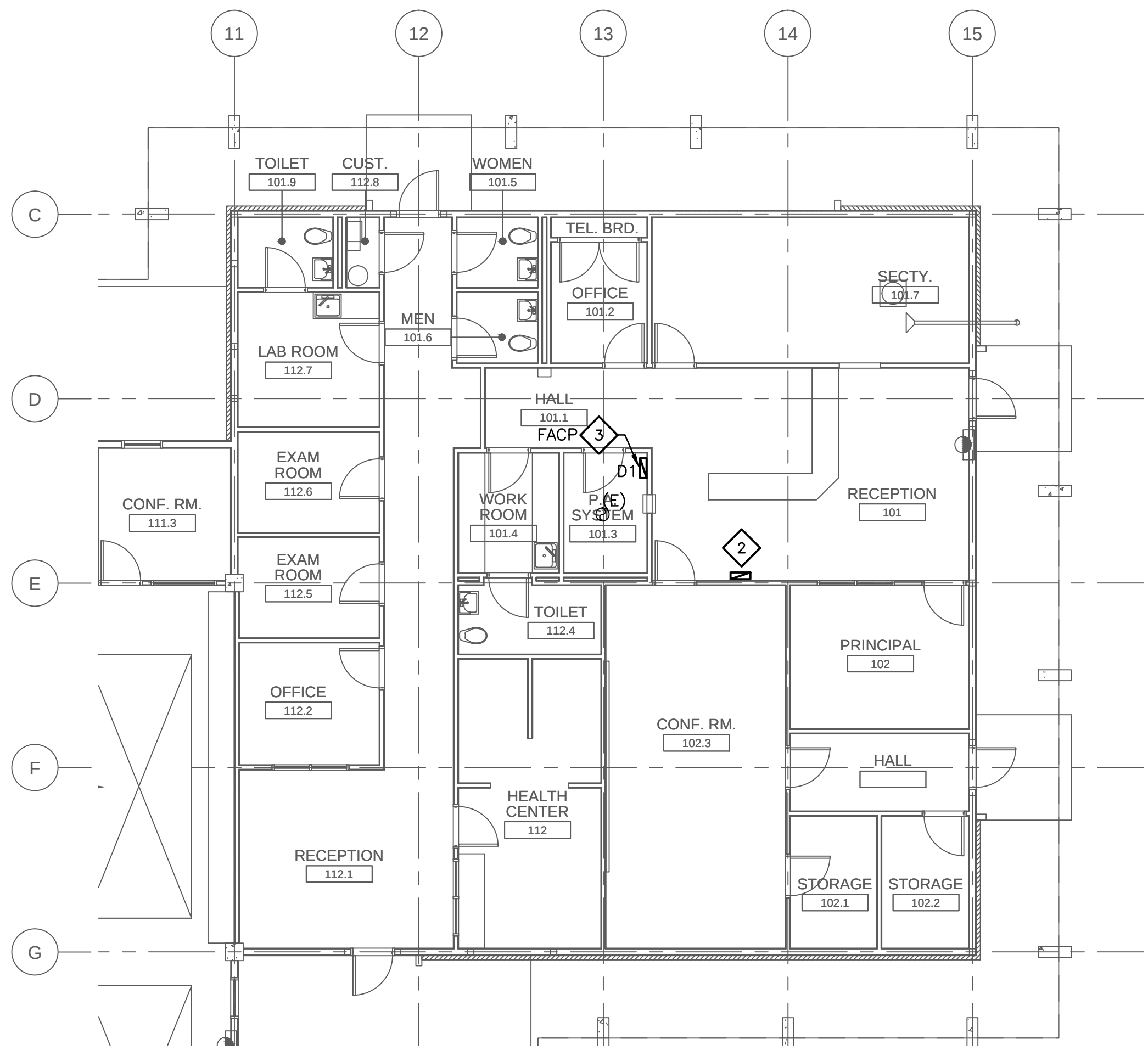
DRAWING INDEX	
SHEET NUMBER	TITLE
FA0.0	FIRE ALARM GENERAL INFORMATION
FA0.1	FIRE ALARM GENERAL INFORMATION
FA0.2	FIRE ALARM RISER DIAGRAM
FA0.3	FIRE ALARM RISER DIAGRAM
FA0.4	FIRE ALARM RISER DIAGRAM
FA0.5	FIRE ALARM BATTERY AND VOLTAGE DROP CALCULATIONS
FA0.6	FIRE ALARM BATTERY AND VOLTAGE DROP CALCULATIONS
FA0.7	FIRE ALARM DETAILS
FA1.0	FIRE ALARM SITE PLAN
FA2.1	PARTIAL FIRE ALARM FLOOR PLANS - BLDG. 100, 200, 700 & 900
FA2.2	FIRE ALARM FLOOR PLAN - BLDG. 300
FA2.3	FIRE ALARM FLOOR PLAN - BLDG. 400 GYMNASIUM
FA2.4	FIRE ALARM FLOOR PLAN - BLDG. 400 BOYS AND GIRLS LOCKER ROOM
FA2.5	FIRE ALARM FLOOR PLAN - BLDG. 500 THEATER
FA2.6	FIRE ALARM FLOOR PLAN - BLDG. 600
FA2.7	FIRE ALARM FLOOR PLAN - PORTABLE BLDGS P8-P17
FA2.8	FIRE ALARM FLOOR PLAN - PORTABLE BUILDING P61-P68

PROJECT DESCRIPTION
1. OCCUPANCY TYPE: E (SCHOOL)
2. SYSTEM TYPE: CLASS B, AUTOMATIC ADDRESSABLE SYSTEM.
3. STYLE OF CIRCUITS: A. INITIATING CIRCUIT, SLC LOOP CLASS B/STYLE 4. B. NOTIFICATION APPLIANCE CIRCUITS, NAC CLASS B/STYLE Y.
4. METHOD OF COMMUNICATION: RADIO TRANSMISSION.
5. PROVIDE UL CENTRAL STATION MONITORING.

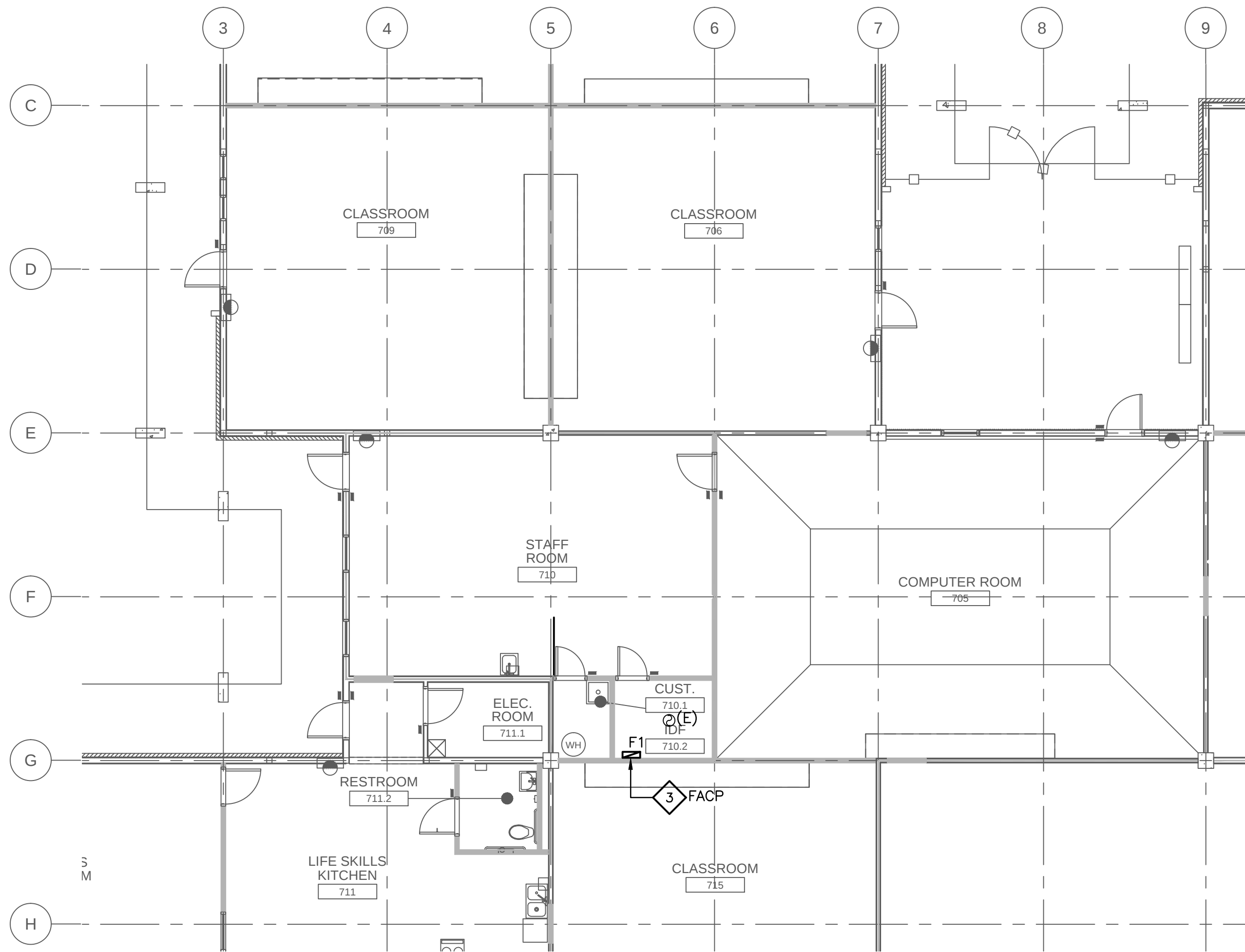
SCOPE OF WORK
1. REPLACE ALL EXISTING FIRE ALARM CONTROL PANELS WITH NEW GAMEWELL-FCI E3 SERIES CONTROL UNIT COMPONENTS AND EQUIPMENT AS SHOWN ON DRAWINGS.
2. CONNECT ALL EXISTING DEVICES AND APPLIANCES IN BUILDING NOT UNDERGOING DETECTION AND NOTIFICATION MODERNIZATIONS. PROVIDE POWER SUPPLIES, CONTROL UNITS AND OTHER EQUIPMENT AS NEEDED AND AS INDICATED ON CONTRACT DOCUMENTS TO ACCOMMODATE THESE CONNECTIONS.
3. REPLACE THE EXISTING OFF-SITE NOTIFICATION TRANSMITTER SYSTEM WITH A NEW RADIO MESH TRANSMITTER SYSTEM TO BE MONITORED BY CRIME ALERT.
4. PERFORM COMPLETE FIRE ALARM MODERNIZATIONS IN BUILDINGS AS SHOWN ON CONTRACT DOCUMENTS INCLUDING BUT NOT BE LIMITED TO: A. REPLACE OR INSTALL NEW GAMEWELL-FCI E3 SERIES EQUIPMENT AS SHOWN ON DRAWINGS. B. INSTALL ALL NEW INITIATING AND NOTIFICATION DEVICE THROUGHOUT, U.O.N. C. DOCUMENT AND TEST FIRE ALARM SYSTEM OPERATION AFTER COMPLETION OF INSTALLATION.

SYMBOL LIST	
CEILING	WALL
	NAC REMOTE POWER SUPPLY
	FIRE ALARM CONTROL PANEL, LETTER ADJACENT INDICATES PANEL STYLE AS REFERENCED IN FIRE ALARM LEGEND
	FIRE ALARM TERMINAL CABINET
	LOCAL OPERATING CONSOLE
	OFF-SITE NOTIFICATION TRANSMITTER
	SMOKE DETECTOR
	HEAT DETECTOR
	ABOVE CEILING HEAT DETECTOR
	DUCT DETECTOR
	ADDRESSABLE PROJECTED BEAM SMOKE SENSOR
	MANUAL PULL STATION AT +42" MIN. TO 48" A.F.F. TO HIGHEST PART OF ACTIVATING HANDLE
	MONITOR MODULE
	SUPERVISORY SWITCH ON "OS&Y" VALVE
	CEILING OR WALL FIRE ALARM STROBE. WALL MOUNTED TYPE SHALL BE MOUNTED WITH ENTIRE LENS MOUNTED AT NOT LESS THAN 80" AND NOT GREATER THAN 96" AFF.
	CEILING OR WALL FIRE ALARM SPEAKER. WALL MOUNTED TYPE SHALL BE MOUNTED AT NOT LESS THAN 96" TO TOP OF DEVICE.
	CEILING OR WALL FIRE ALARM SPEAKER/STROBE. WALL MOUNTED TYPE SHALL BE MOUNTED WITH ENTIRE LENS MOUNTED AT NOT LESS THAN 80" AND NOT GREATER THAN 90" AFF.
	FIRE ALARM STROBE - WEATHERPROOF, WITH ENTIRE LENS MOUNTED BETWEEN +80" TO 96" AFF
	FIRE ALARM SPEAKER - WEATHERPROOF AT NOT LESS THAN 90" AFF TO TOP OF DEVICE.
	RELAY MODULE RCE 95
	SIGNAL CONTROL RELAY
	END-OF-LINE DEVICE
	SHEET NOTE REFERENCE MARKER, NOTE #1 SHOWN.
- - - - -	WIRES IN CONDUIT CONCEALED UNDERFLOOR OR UNDERGROUND.
_____	WIRES IN CONDUIT.

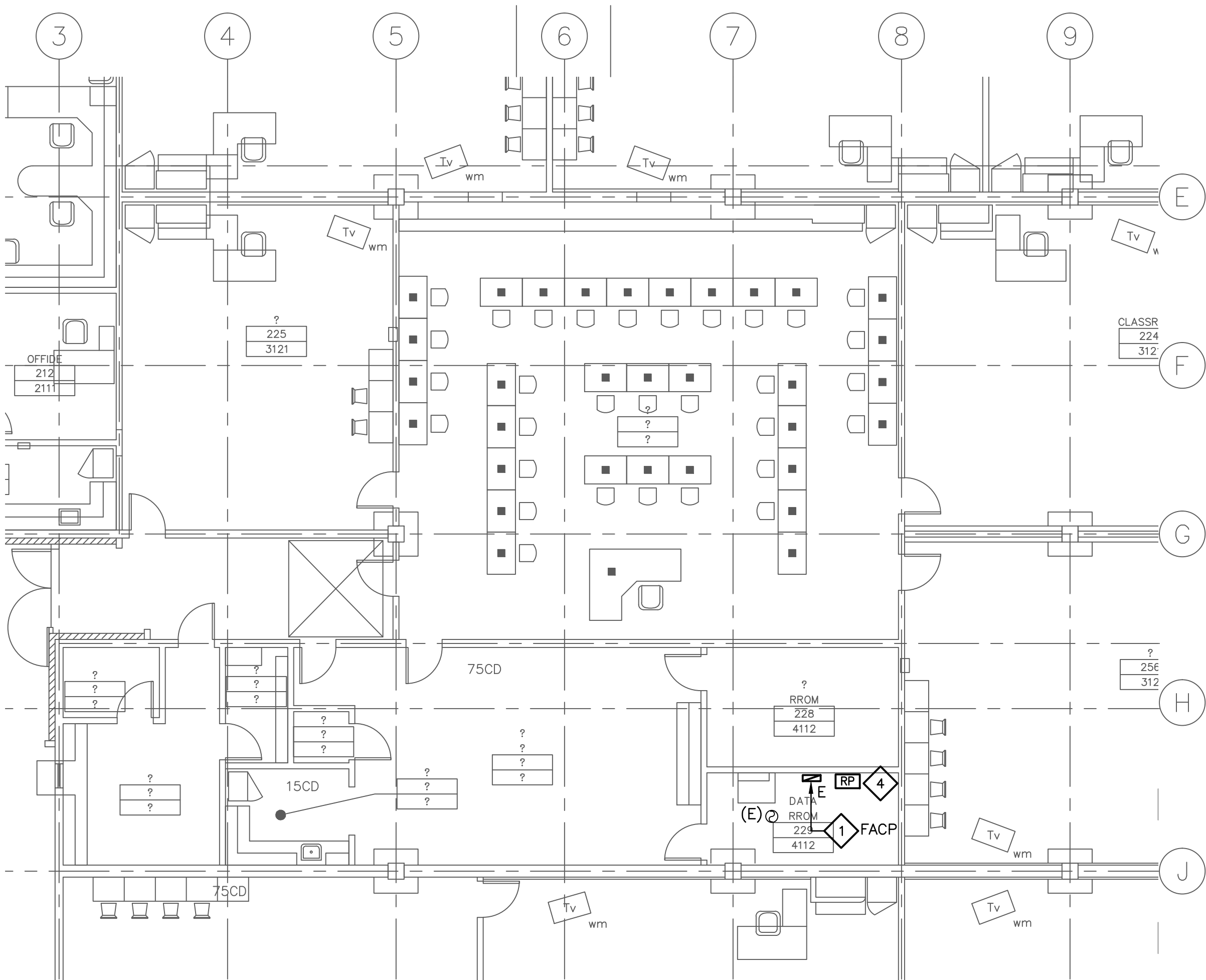
ABBREVIATIONS			
ARCH.	ARCHITECT	(N)	NEW
AWG	AMERICAN WIRE GAUGE	NAC	NOTIFICATION APPLIANCE CIRCUITS
BKR	BREAKER	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NO	NUMBER
CKT	CIRCUIT	SLC	SIGNALING LINE CIRCUITS
CLG	CEILING	TYP	TYPICAL
(E)	EXISTING	UON	UNLESS OTHERWISE NOTED
FA	FIRE ALARM	WP	WEATHERPROOF
FACP	FIRE ALARM CONTROL PANEL	SWBD	SWITCHBOARD
IOR	INSPECTOR OF RECORD		
IDC	INITIATING DEVICE CIRCUITS		



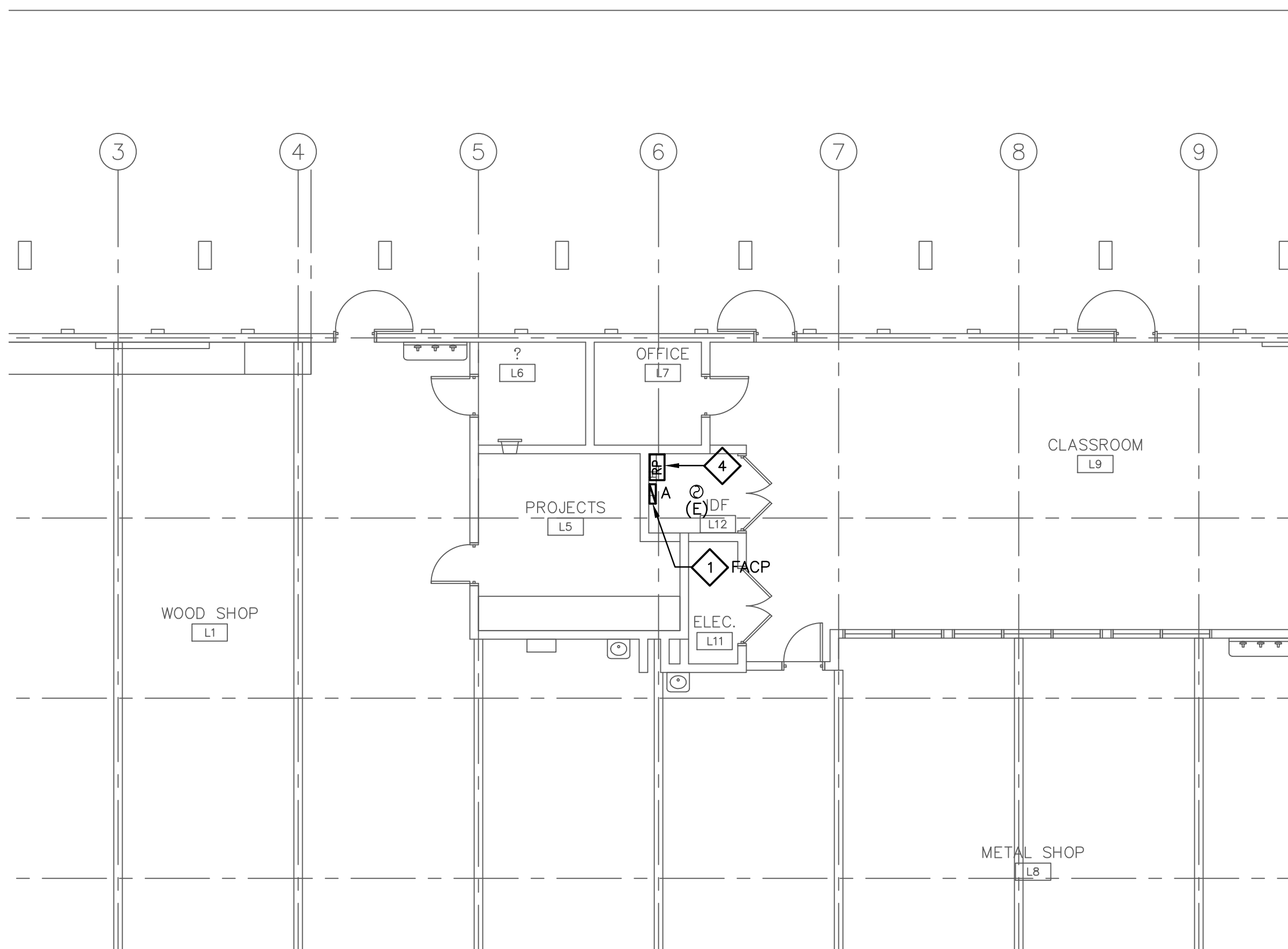
1 PARTIAL FIRE ALARM FLOOR PLAN - BLDG. 100
SCALE: 1/8"=1'-0"



3 PARTIAL FIRE ALARM FLOOR PLAN - BLDG. 700
SCALE: 1/8"=1'-0"



2 PARTIAL FIRE ALARM FLOOR PLAN - BLDG. 200
SCALE: 1/8"=1'-0"



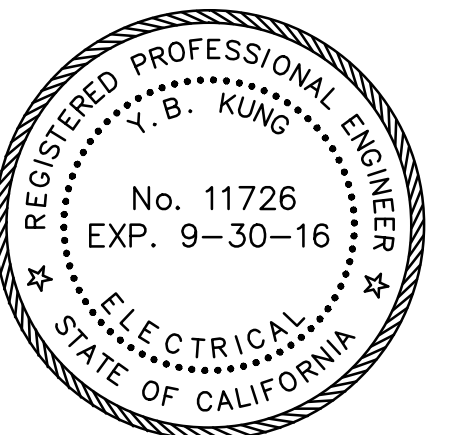
4 PARTIAL FIRE ALARM FLOOR PLAN - BLDG. 900
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. LIGHT, THIN LINES INDICATE EXISTING. DARK, HEAVY LINES INDICATE NEW WORK.
2. SEE SHEET FA0.0 & FA0.1 FOR GENERAL PROJECT INFORMATION.

SHEET NOTES:

1. RETROFIT (E) FACP WITH (N) GAMEWELL-FCI E3 SERIES FIRE ALARM CONTROL PANEL. RECONNECT ALL EXISTING INITIATING AND NOTIFICATION DEVICES TO NEW PANEL FOR FIRE ALARM SYSTEM CIRCUIT CONTINUITY AND REPROGRAM.
2. (N) LOC LOCAL OPERATING CONSOLE TO BE SURFACE WALL MOUNTED IN RECEPTION AREA AS SHOWN.
3. (N) GAMEWELL-FCI E3 SERIES CONTROL PANEL TO REPLACE EXISTING. RECONNECT ALL (E) INITIATING AND NOTIFICATION DEVICES TO NEW PANEL FOR FIRE ALARM SYSTEM CIRCUIT CONTINUITY AND REPROGRAM.
4. EXISTING FA REMOTE POWER SUPPLY TO REMAIN.



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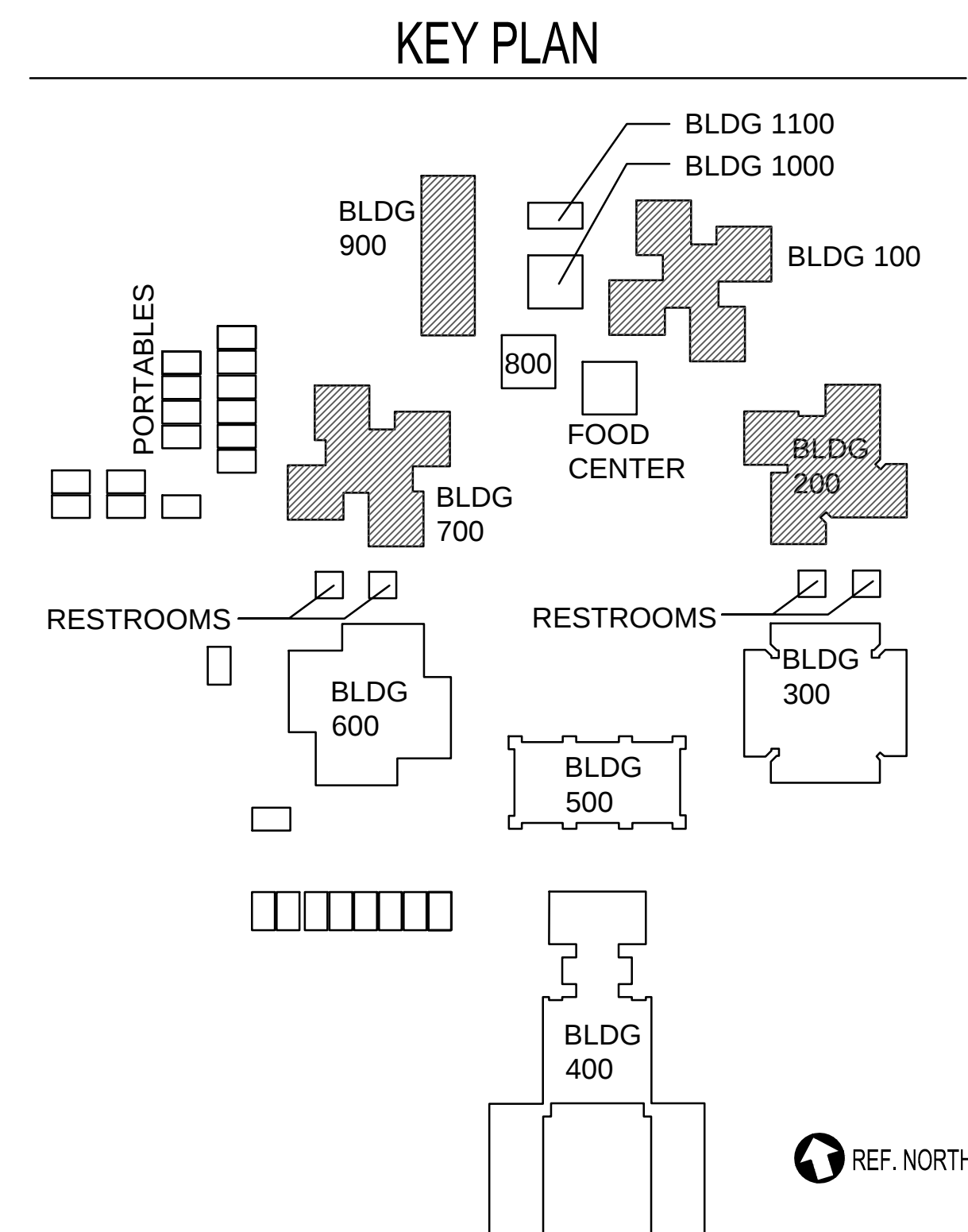
FIRE ALARM MODERNIZATION YERBA BUENA HIGH SCHOOL 155 LUCRETIA AVENUE SAN JOSE, CA 95122

OWNER:
East Side Union
High School District
830 North Capital Ave
San Jose, CA 95133
P: (408)347-5000
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GENERAL CONTRACTOR:
Gonsalves & Stronck Const. Co., Inc.
1000 Washington Street
San Carlos, CA 94070-5319
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INTREPID
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ELECTRICAL CONTRACTOR:
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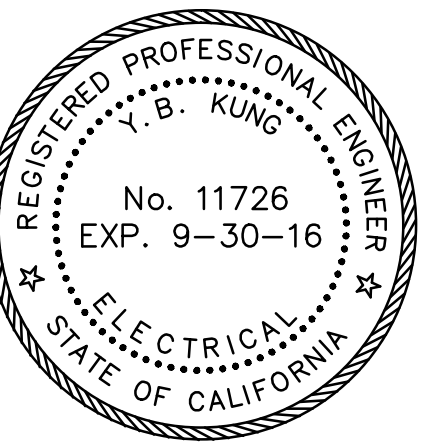


JOB NO.:	16021
DRAWN BY:	AP
DATE:	05-23-2016
ENG. APPROVAL:	DAVID KUNG
PM APPROVAL:	DAVID KUNG
SCALE:	AS SHOWN

SHEET TITLE:
**PARTIAL FIRE ALARM
FLOOR PLAN
BLDG. 100,200,700,900**

SHEET NO.:

FA2.1



REVISION:	DATE:

FIRE ALARM MODERNIZATION
YERBA BUENA HIGH SCHOOL
155 LUCRETIA AVENUE
SAN JOSE, CA 95122

OWNER:
East Side Union
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830 North Capital Ave
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ENG. APPROVAL:	DAVID KUNG
PM APPROVAL:	DAVID KUNG
SCALE:	AS SHOWN

SHEET TITLE:
**FIRE ALARM
FLOOR PLAN
BLDG. 300**

SHEET NO.:

FA2.2

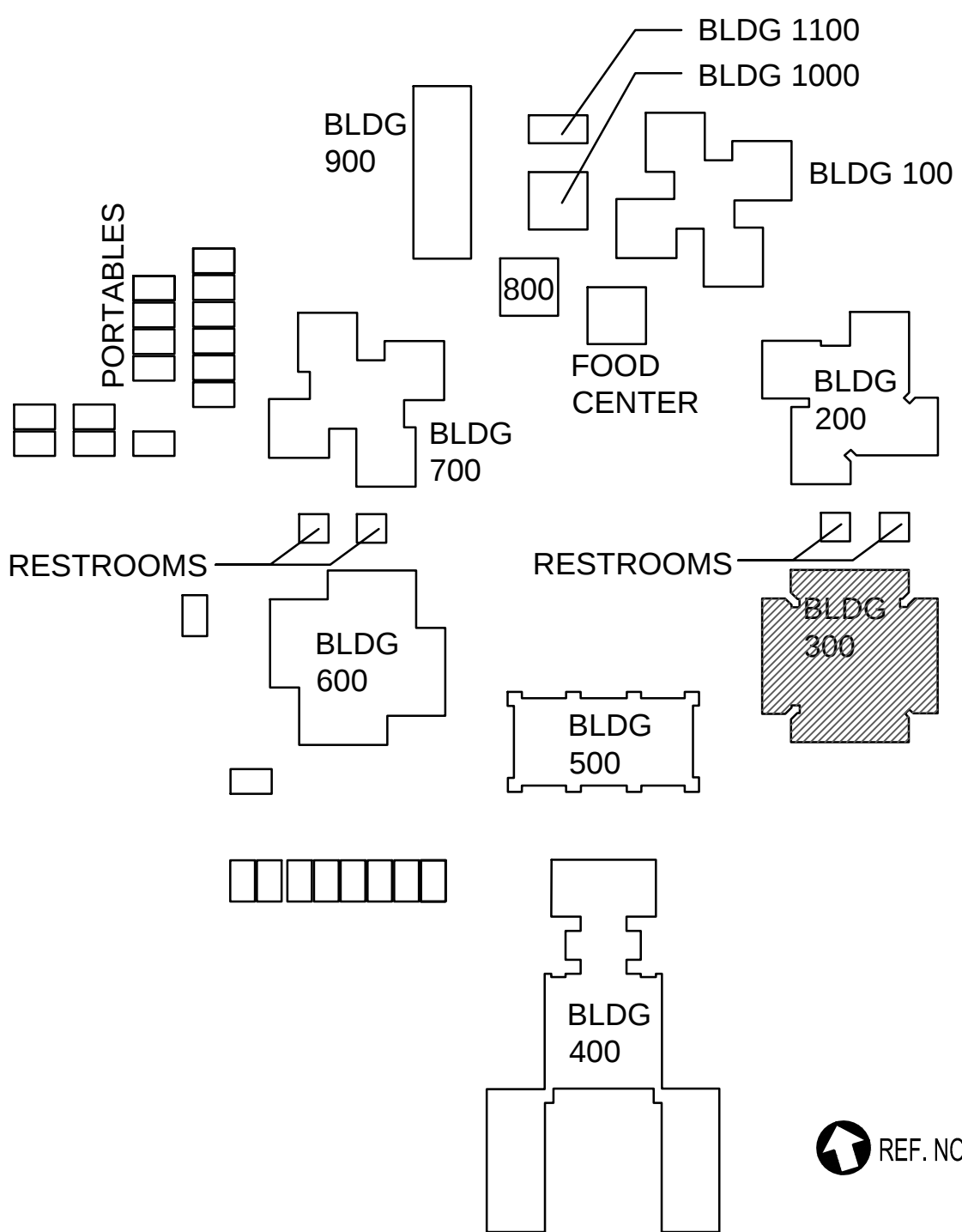
SHEET NOTES:

- 1 NEW FIRE ALARM CONTROL PANEL 'FACP3'.

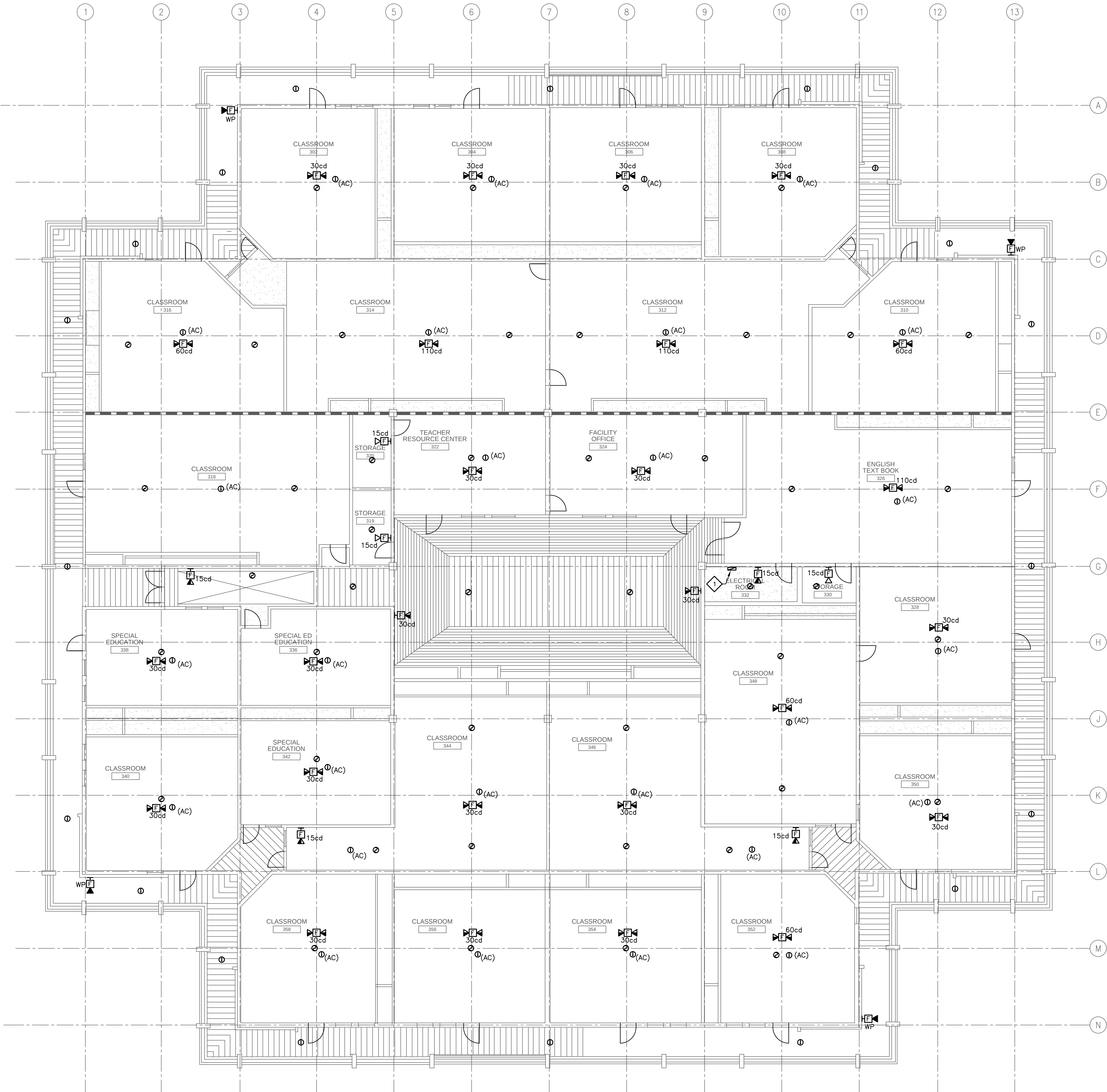
GENERAL NOTES:

- EXISTING 2-HOUR AREA SEPARATION WALL
- EXISTING FULL HEIGHT WALL
- EXISTING LINEAR WOOD CEILING
- EXISTING GYPSUM BOARD CEILING
- EXISTING T-BAR CEILING, TYP., U.O.N.
- EXISTING SKYLIGHT

KEY PLAN

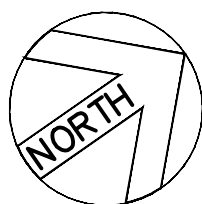


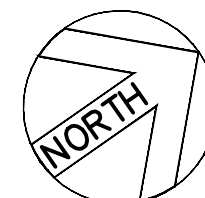
REF. NORTH



1 FIRE ALARM FLOOR PLAN - BLDG. 300

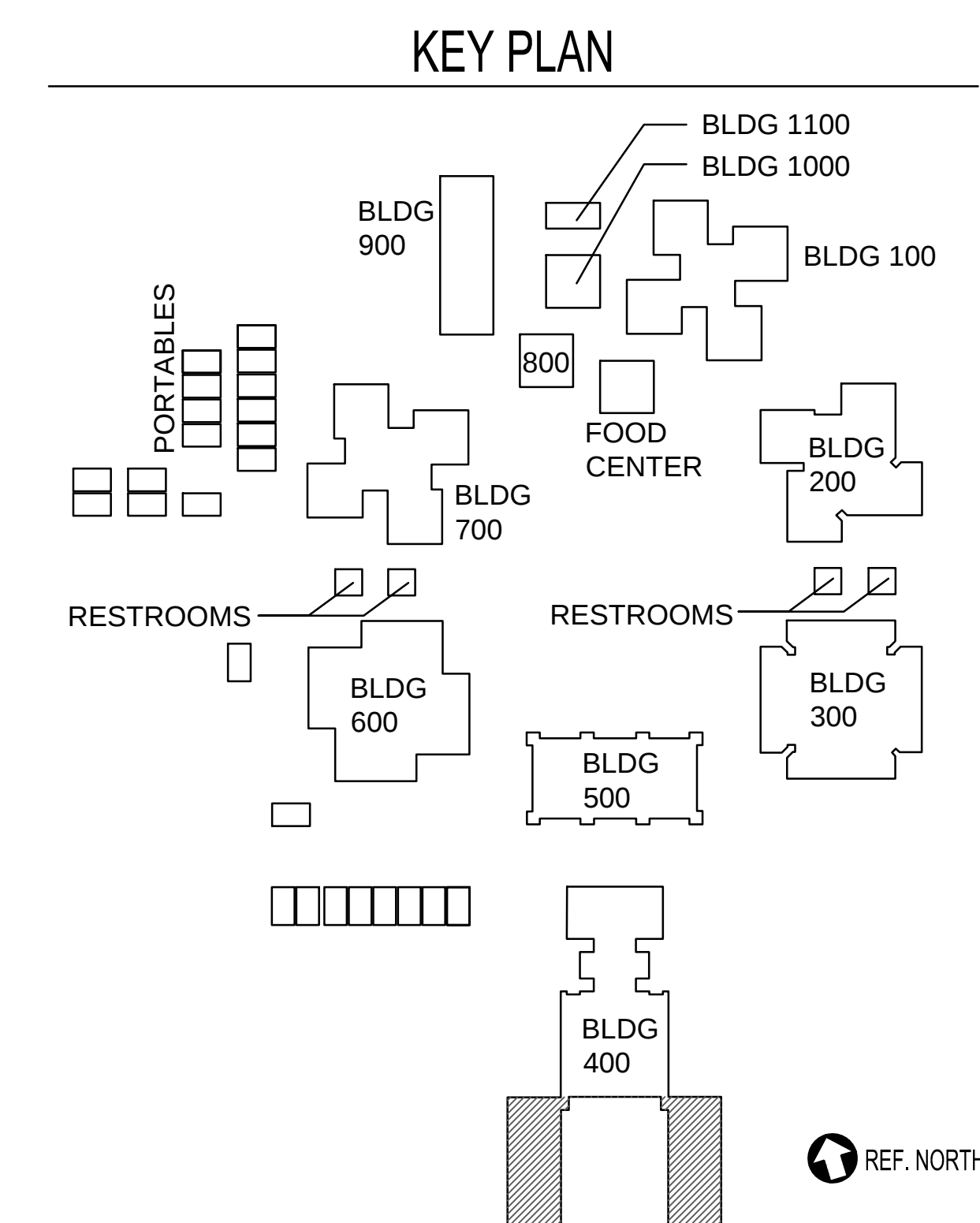
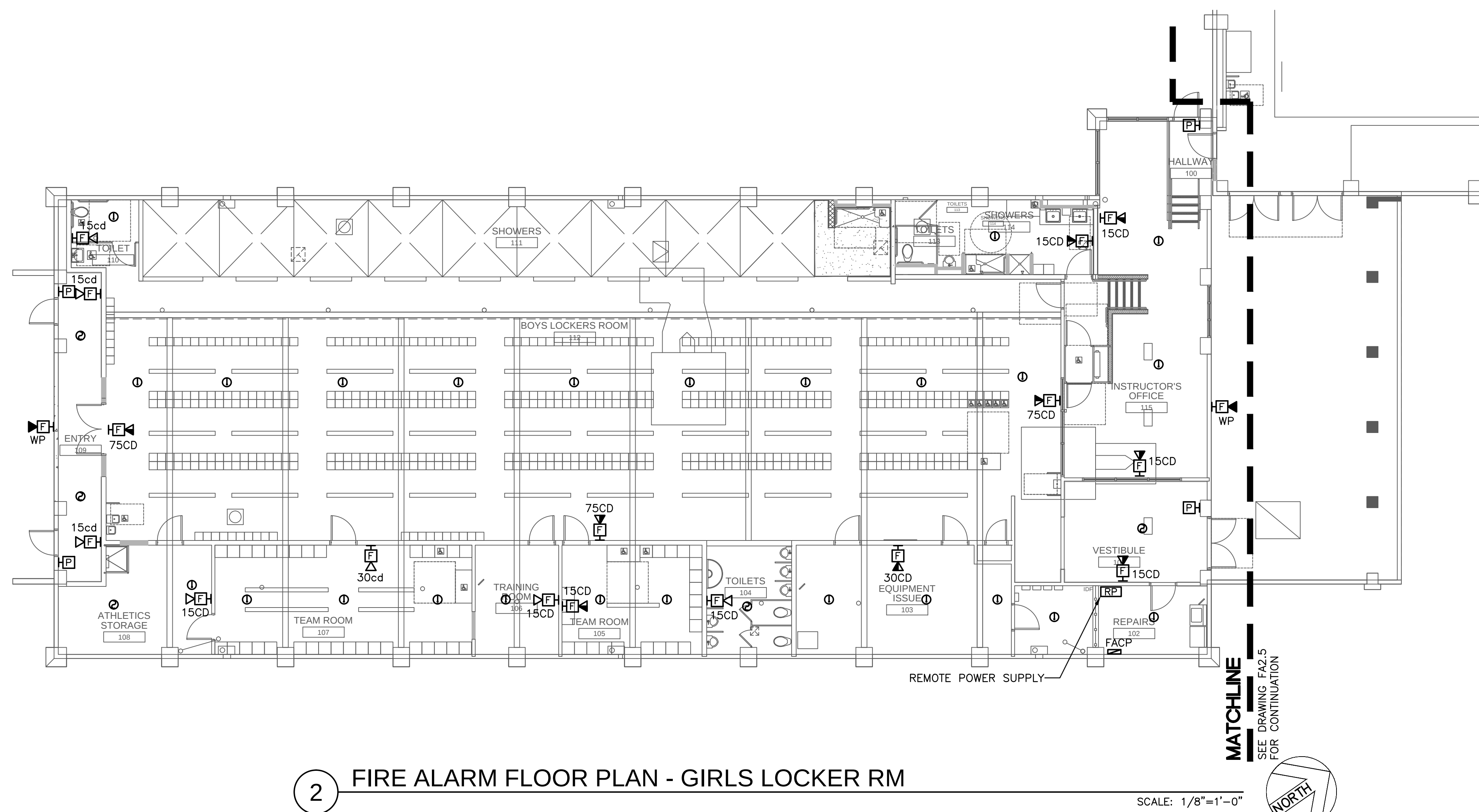
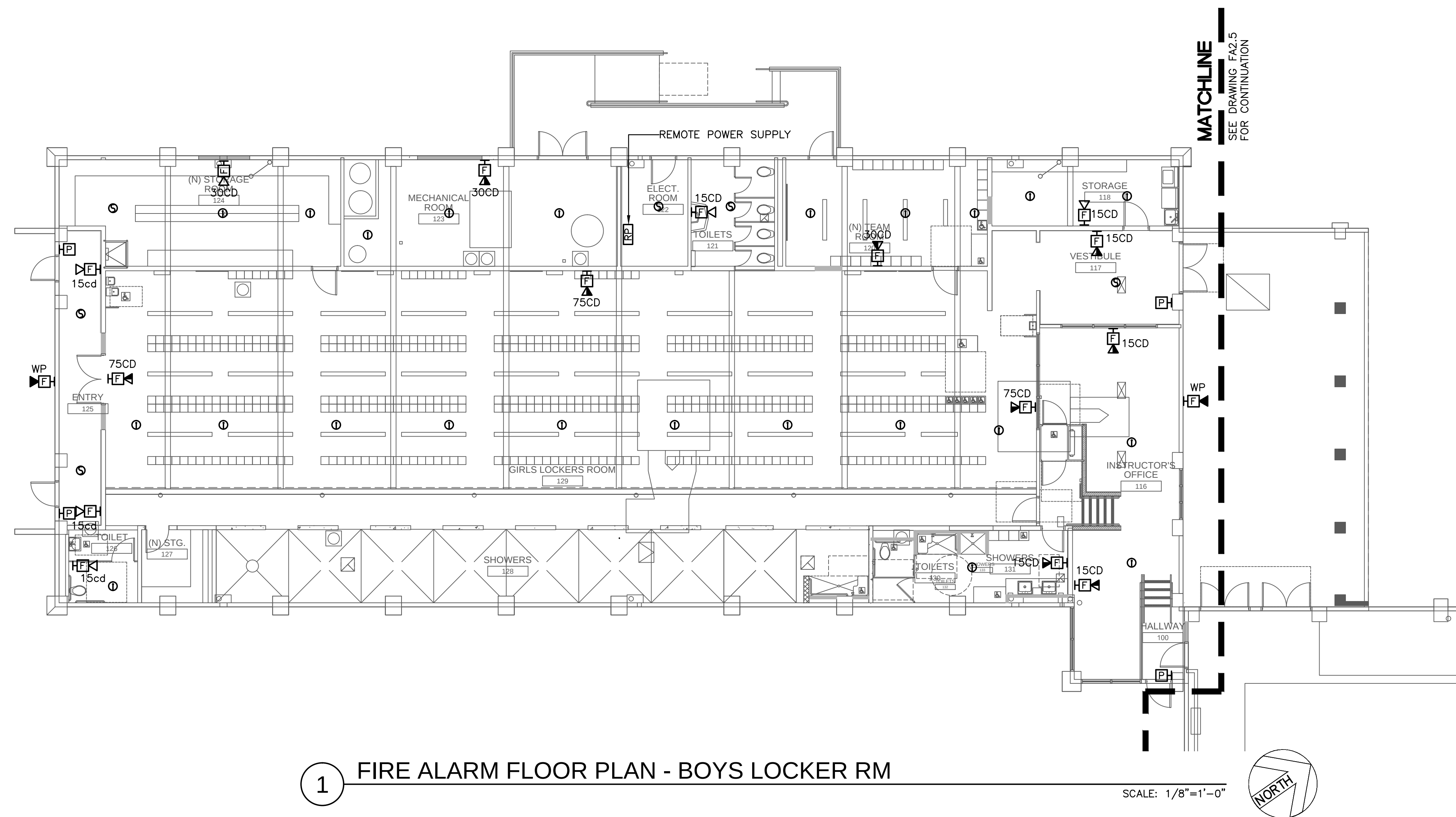
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1 -

FA2.3

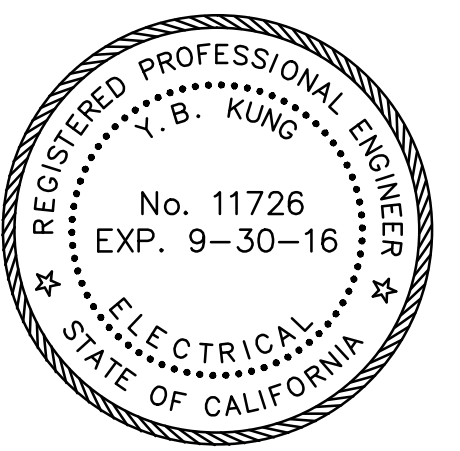
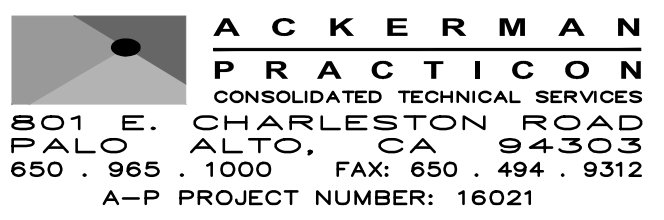


GENERAL NOTES:

1. —

SHEET NOTES:

1 —



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FIRE ALARM MODERNIZATION

YERBA BUENA HIGH SCHOOL

155 LUCRETIA AVENUE

SAN JOSE, CA 95122

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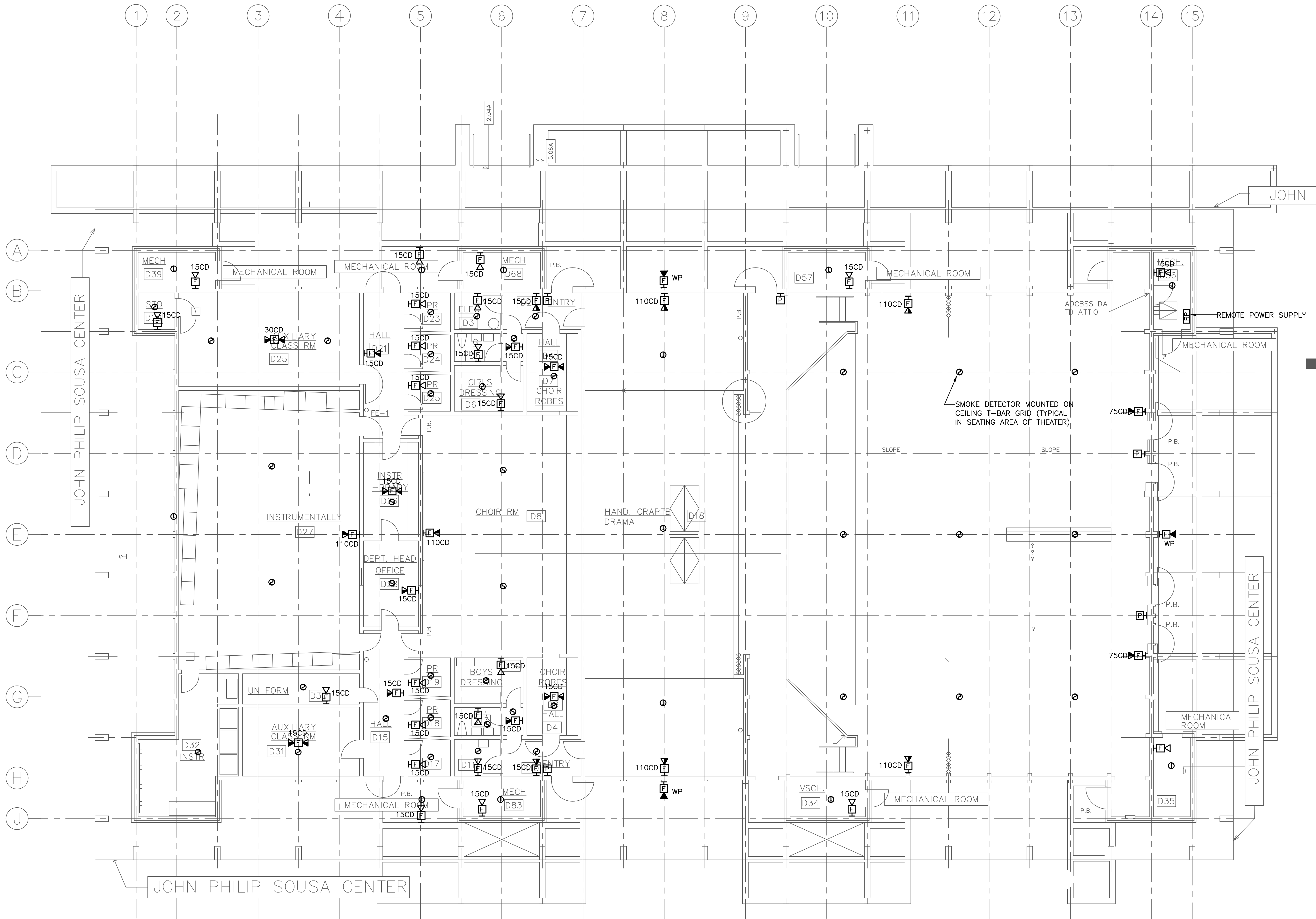
PM APPROVAL: DAVID KUNG

SCALE: AS SHOWN

SHEET TITLE:
**FIRE ALARM
FLOOR PLAN -BLDG. 400
LOCKER ROOM**

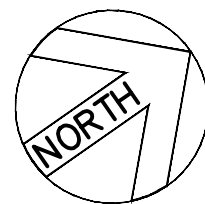
SHEET NO.:

FA2.4



1 FIRE ALARM FLOOR PLAN - BLDG. 500 THEATER

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



GENERAL NOTES:

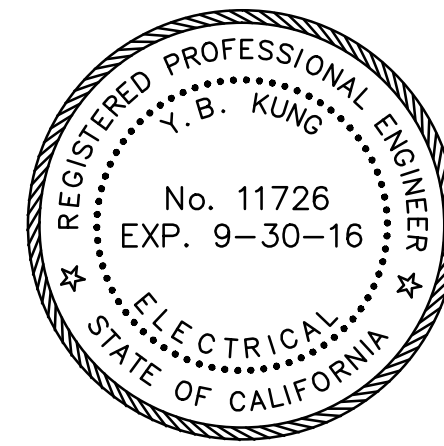
1. -

SHEET NOTES:

1. -



ACKERMAN
PRACTICON
CONSULTING TECHNICAL SERVICES
801 E. CHARLESTON ROAD
PALO ALTO, CA 94303
650 . 965 . 1000 FAX: 650 . 494 . 9312
A-P PROJECT NUMBER: 16021



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YERBA BUENA HIGH SCHOOL
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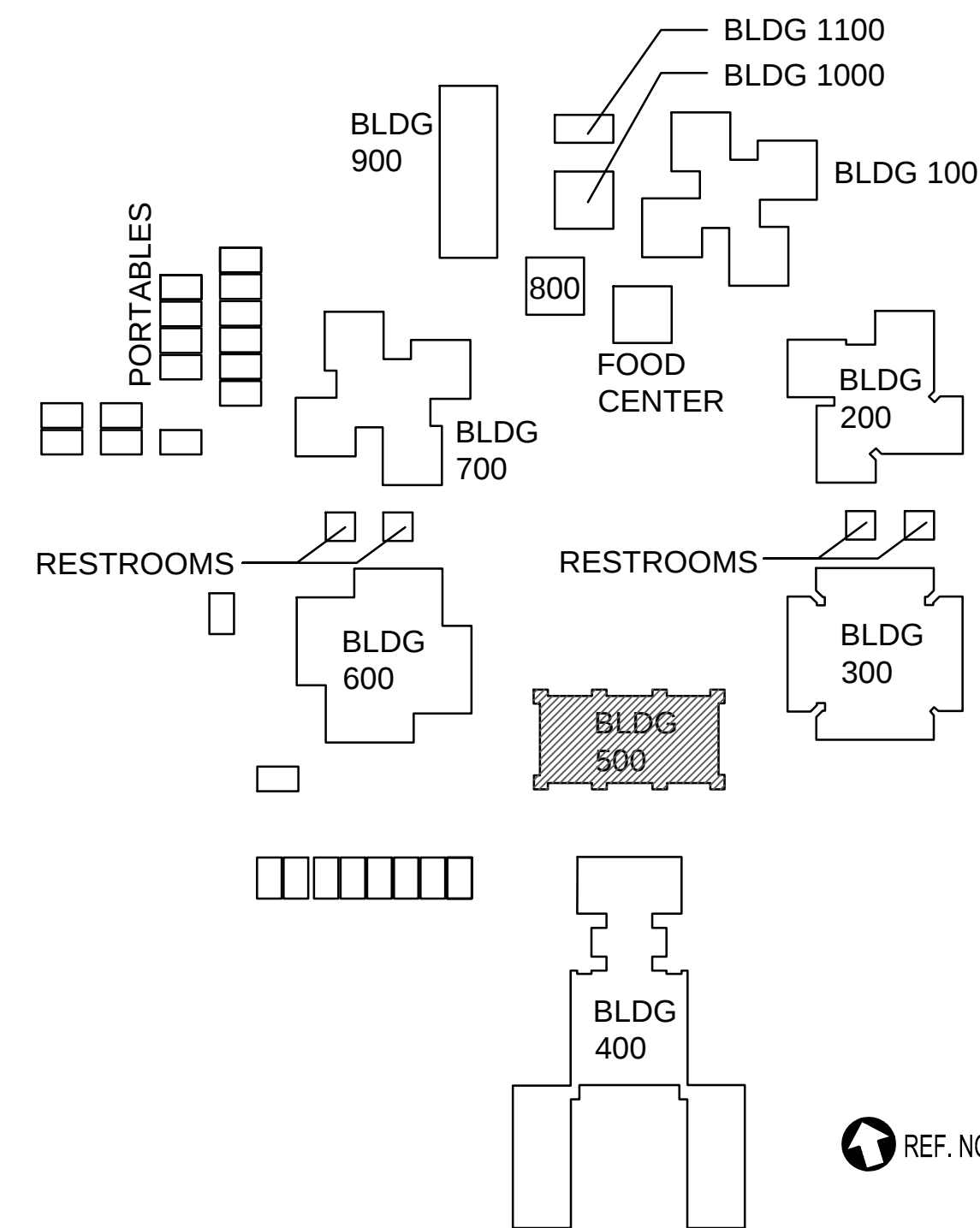
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KEY PLAN



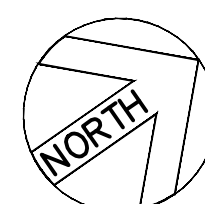
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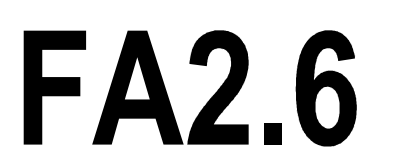
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FIRE ALARM
FLOOR PLAN
BLDG. 500 THEATER

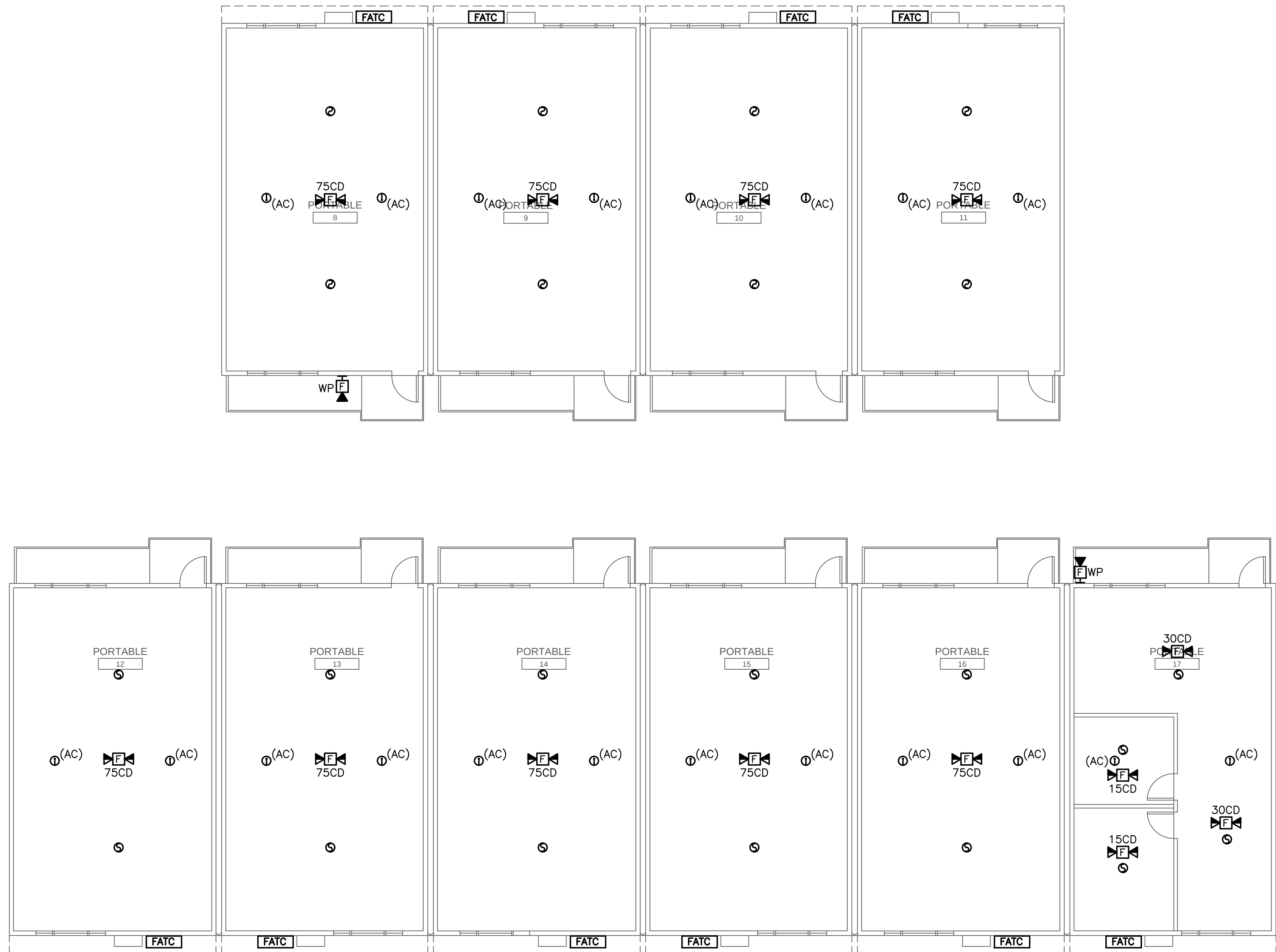
SHEET NO.:

FA2.5



1





1 PORTABLE 8 THROUGH 17 FIRE ALARM FLOOR PLAN

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

NORTH

GENERAL NOTES:

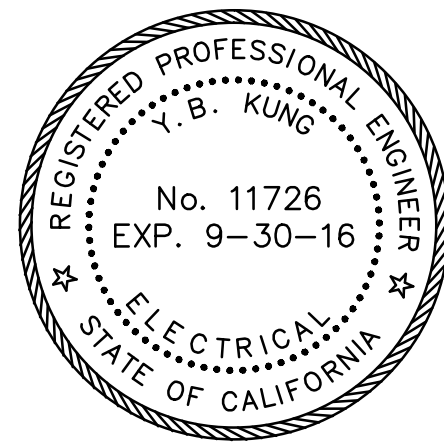
1. -

SHEET NOTES:

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FIRE ALARM MODERNIZATION
YERBA BUENA HIGH SCHOOL
155 LUCRETIA AVENUE
SAN JOSE, CA 95122

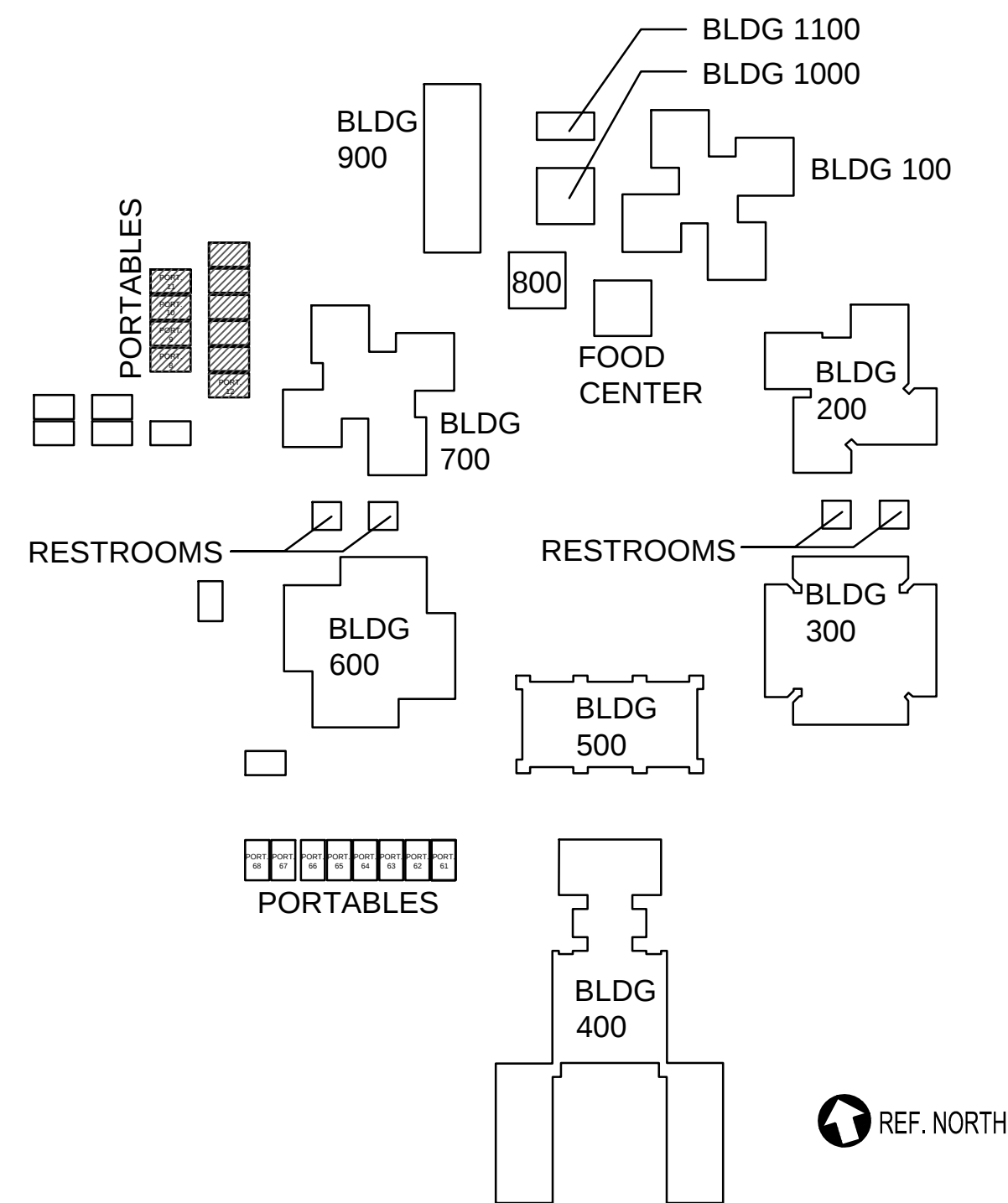
OWNER:
East Side Union
High School District
830 North Capital Ave
San Jose, CA 95133
P: (408)347-5000
F: (408)347-5045

GENERAL CONTRACTOR:
Gonsalves & Stronck Const. Co., Inc.
1000 Washington Street
San Carlos, CA 94070-5319
P:

FIRE ALARM CONSULTANT:
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6300 San Ignacio Ave.
San Jose, CA 95119-1213
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F: (510) 597-9980

ELECTRICAL CONTRACTOR:
Smith & Sons Electric, Inc.
44081 South Grimmer Blvd.
Fremont, CA 94538-6382
P: (510) 651-4994

KEY PLAN

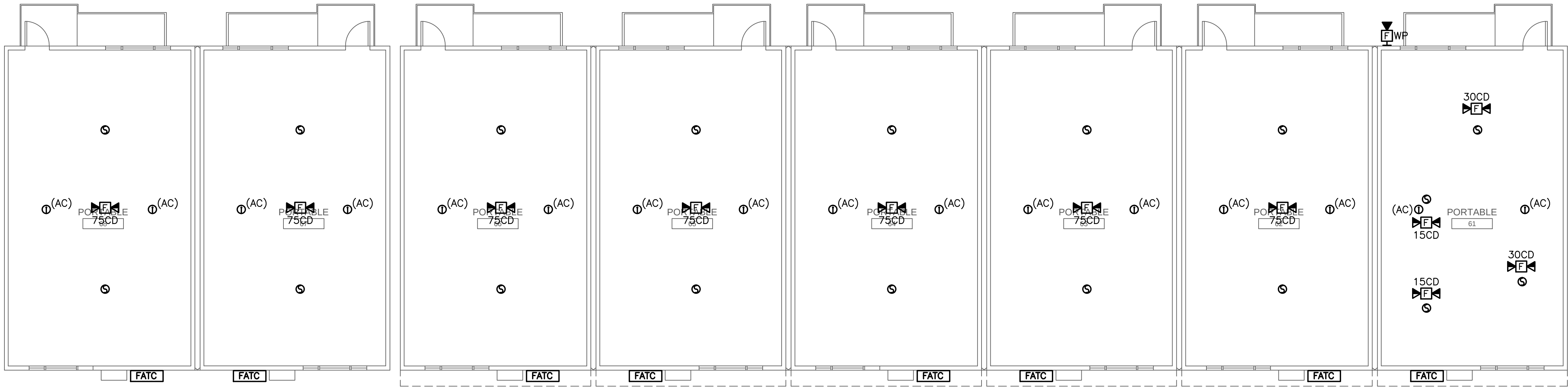


JOB NO.:	16021
DRAWN BY:	AP
DATE:	05-23-2016
ENG. APPROVAL:	DAVID KUNG
PM APPROVAL:	DAVID KUNG
SCALE:	AS SHOWN

SHEET TITLE:
FIRE ALARM
FLOOR PLAN
PORTABLE P8-P17

SHEET NO.:

FA2.7



1 PORTABLE 61 THROUGH 68 FIRE ALARM FLOOR PLAN

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

NORTH

GENERAL NOTES:

1. -

SHEET NOTES:

1. -



ACKERMAN
CONSULTING ENGINEERING SERVICES
801 E. CHARLESTON ROAD
PALO ALTO, CA 94303
650 . 965 . 1000 FAX: 650 . 494 . 9312
A-P PROJECT NUMBER: 16021



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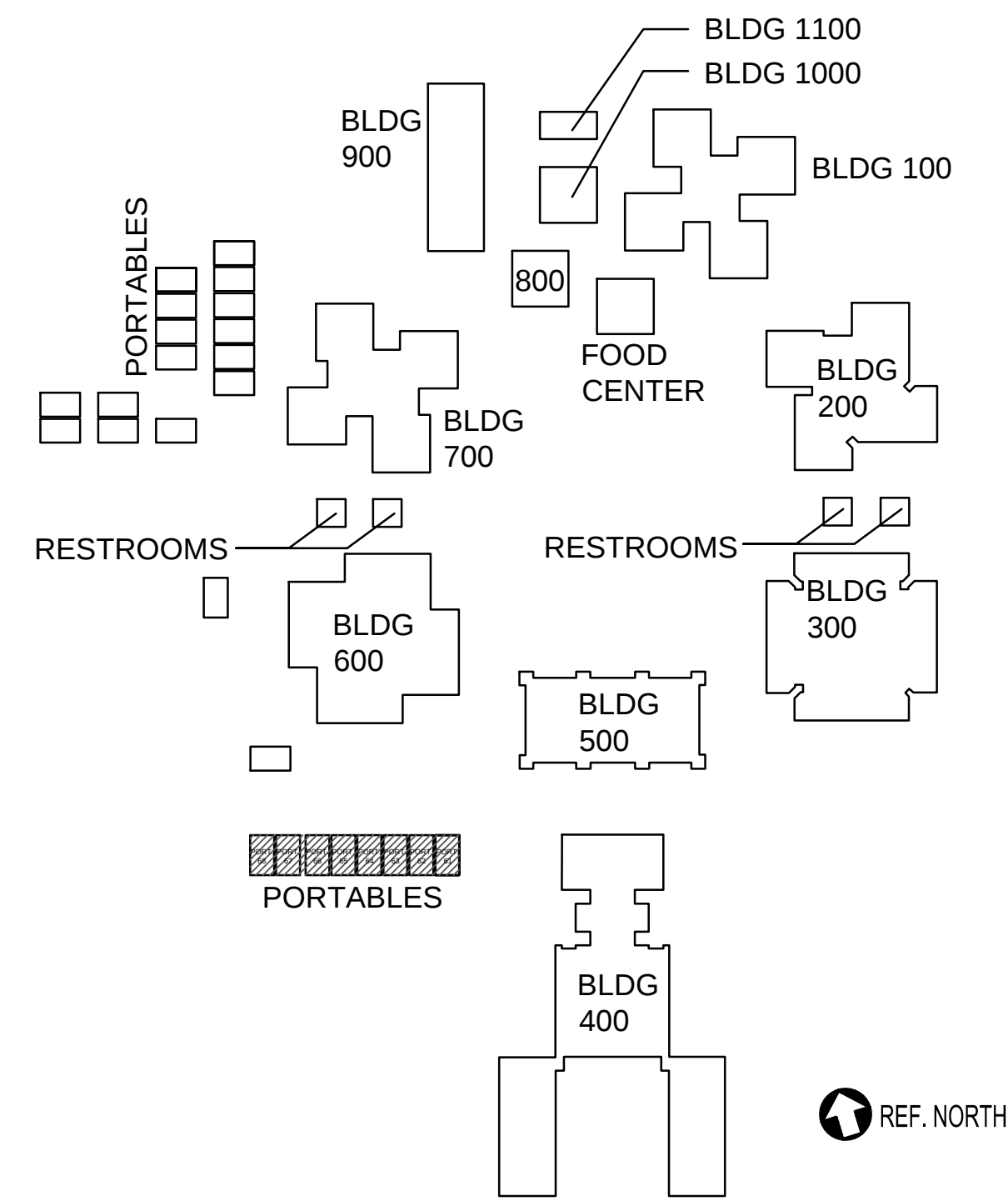
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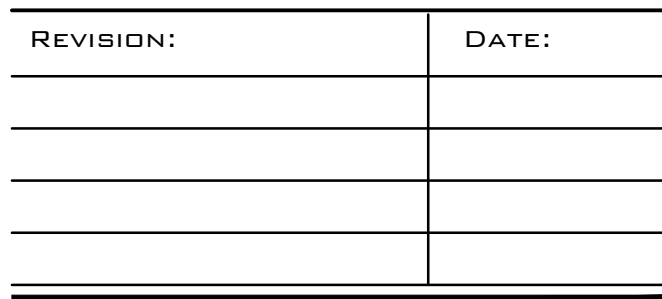
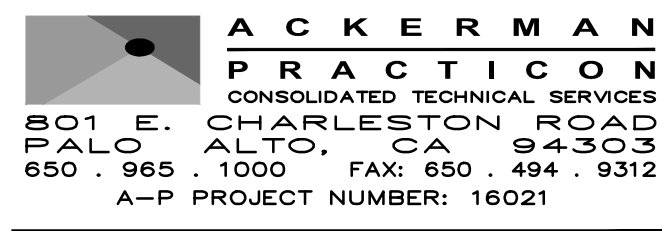


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SCALE:	AS SHOWN

SHEET TITLE:
**FIRE ALARM
FLOOR PLAN
PORTABLES 61-68**

SHEET NO.:

FA2.8



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AP	05-23-2016	
ENG. APPROVAL:		
DAVID KUNG		
PM APPROVAL:		
DAVID KUNG		
SCALE:		
AS SHOWN		

FA0.1

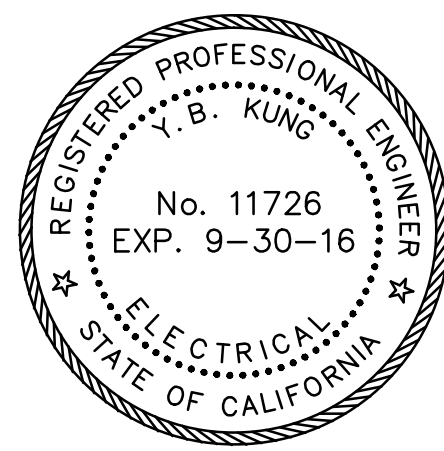
 CABLE TYPE
 CABLE QTY.

<u>WIRE SYMBOL</u>	<u>WIRE DESCRIPTION</u>	<u>APPLICATION</u>
A	2#16 AWG, TWISTED SHIELDED PAIR (USE AQUASEAL UNDERGROUND)	DATA AND INITIAT SLC LOOP
B	2#16 AWG TWISTED PAIR	AUDIBLE CIRCUIT
C	2#12 AWG THHN	NOTIFICATION CIRCUIT
D	2#12 AWG THHN	FCPS ACTIVATION

- CONDUIT AND WIRING SHOWN ON DRAWINGS ARE DIAGRAMATIC, EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT SITE CONDITIONS.
2. LOCATION OF DEVICES SHOWN ON DRAWINGS ARE AS ACCURATE AS POSSIBLE, IF DEVICES CANNOT BE INSTALLED EXACTLY AS SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL INSTALL THEM AS CLOSE AS POSSIBLE TO THE INDICATED LOCATION. THE FINAL LOCATIONS OF ALL DEVICES SHALL BE RECORDED AND INCORPORATED INTO THE AS-BUILT DRAWINGS.
3. PROVIDE ALL REQUIRED CUTTING, PATCHING, BACKFILL AND REPAIRS NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING. COORDINATE ALL WORK IN FIELD WITH GENERAL CONTRACTOR IN FIELD PRIOR TO START OF WORK.
4. ALL NEW RACEWAYS AND CONDUCTORS SHALL BE INSTALLED CONCEALED WHERE POSSIBLE, FOR CONDUITS THAT ARE TO BE INSTALLED EXPOSED AND SURFACE MOUNTED ON EXISTING WALLS, CEILINGS AND/OR CONCRETE SURFACES SHALL BE NEATLY ROUTED AND SHALL RUN PARALLEL TO OR AT RIGHT ANGLES TO BUILDING LINES.
5. WHERE DEVICES ARE INACCESSIBLE ABOVE THE CEILING, PROVIDE 24"x24" ACCESS PANEL IN THE CEILING AS REQUIRED BY CODE, WHETHER OR NOT SPECIFICALLY INDICATED ON DRAWINGS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE LOCATING ALL EXISTING UNDERGROUND SYSTEM IN THE AREA OF UNDERGROUND WORK. REPAIR ALL DAMAGED SYSTEMS TO OWNERS SATISFACTION. MAINTAIN EXTREME CARE DURING TRENCHING AS EXISTING SYSTEMS ARE KNOWN TO EXIST IN THE AREA. THE DRAWINGS AND SPECIFICATIONS ARE FOR THE ASSISTANCE AND GUIDANCE OF THE CONTRACTOR. EXACT LOCATIONS, DISTANCE AND ELEVATIONS SHALL BE GOVERNED BY ACTUAL CONDITIONS, COORDINATE THE CONTRACT DOCUMENTS AND FIELD CONDITIONS TO DETERMINE EXACT ROUTING AND FINAL TERMINATIONS FOR ALL WORK.
7. SUFFICIENT ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRIC EQUIPMENT TO PERMIT READY AND SAFETY OPERATION AND MAINTENANCE OF SUCH EQUIPMENT PER CEC ARTICLE 110-16.
8. ALL CONDUITS SHALL BE MINIMUM 3/4", U.S. POWER BRANCH CIRCUITS SHALL BE A MINIMUM TWO (2) #12 AWG AND ONE (1) #12 AWG GROUND TYPE THWN/THHN.
9. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUIT RUNS INTO BUILDING SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING, UNLESS OTHERWISE NOTED ON DRAWINGS.
10. ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAYS IN OFFICES, CLASSROOMS AND IN PUBLIC AREAS SHALL BE VERIFIED AND DETERMINED IN FIELD FOR THE BEST POSSIBLE WAY OF CONDUIT ROUTING PRIOR TO ROUGH-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURRED SPACES, HOLLOW MILLIONS AND SOFFIT, ETC. IN SUCH AREA IF THE SYSTEM CAN BE ROUTED EITHER BY FISHING OR ACCESSIBILITY. ACCESSIBILITY OF THE SYSTEM IS TO BE DETERMINED IF ACCESSIBILITY IS DETERMINED, CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS POSSIBLE IN FIELD.
11. FOR ALL EXISTING FIRE ALARM EQUIPMENT CONTROL PANELS AND REMOTE POWER SUPPLIES THAT ARE TO BE REPLACED WITH NEW, RETAIN ALL EXISTING DEDICATED 120V CIRCUITS IN PLACE AND REUSE THEM FOR DEDICATED POWER CONNECTIONS TO ALL NEW REPLACEMENT PANELS AND POWER SUPPLIES WHEREVER AVAILABLE.
12. CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT. ALL EXISTING WALL, ABOVE AND BELOW CEILING MOUNTED FIRE ALARM DEVICES, EQUIPMENT, ASSOCIATED FIRE ALARM J-BOXES, CONDUITS AND WIRES SHALL BE REMOVED, DISCONNECTED AND/OR SALVAGED AS DIRECTED BY THE SCHOOL DISTRICT, UNLESS OTHERWISE NOTED ON DRAWINGS TO REMAIN AND/OR TO BE RECONNECTED. CONTRACTOR TO VERIFY IN FIELD AND TO DETERMINE FOR THE POSSIBILITY OF UTILIZING SOME OF THE EXISTING REMAINING SURFACE CONDUITS AND BOXES AND MAY REUSE THEM TO FACILITATE FOR THE INSTALLATION OF NEW FIRE ALARM DEVICES AND WIRING WHERE POSSIBLE.
13. ALL EXISTING RECESSED OUTLET BOXES AND RACEWAYS IN EXISTING WALLS THAT ARE TO REMAIN MAY BE ABANDONED IN PLACE, REMOVE WIRING IN RACEWAY AND PROVIDE A BLANK COVER PLATE TO THE EXISTING OUTLET BOX. THE EXISTING REMAINING CONCEALED BOXES AND RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.

- THE INSTALLATION OF THE FIRE ALARM SYSTEM SHALL BE IN COMPLIANCE WITH THE FOLLOWING CODES AND STANDARDS:
 - A. 2013 CALIFORNIA BUILDING CODE – PART 2, TITLE 24, CCR.
 - B. 2013 CALIFORNIA ELECTRICAL CODE – PART 3, TITLE 24, CCR.
 - C. 2013 CALIFORNIA MECHANICAL CODE – PART 4, TITLE 24, CCR.
 - D. 2013 CALIFORNIA PLUMBING CODE – PART 5, TITLE 24, CCR.
 - E. 2013 CALIFORNIA FIRE CODE – PART 9, TITLE 24, CCR.
 - F. TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
 - G. APPLICABLE STANDARD NFPA 72 NATIONAL FIRE ALARM CODE 2013 EDITION.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TOO THE FINAL INSPECTION AND/OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7 UL OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (Db) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dba ABOVE THE MAXIMUM SOUND LEVEL, HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISUAL DEVICES 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 CANDELLA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. ALL FIRE ALARM WIRING SHALL BE FLPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION, WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
15. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZES PER CEC.
16. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
17. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUIT ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
18. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER SPECIFICATIONS, NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS. IT IS THE INTENT OF THIS PROJECT THAT THE EXISTING FACP BE PROTECTED AND RECONNECTED IN PLACE.
19. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
20. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1.
21. CONTROL PANELS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
22. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
23. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
24. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
25. FIRE ALARM WIRING ABOVE THE ACCESSIBLE CEILINGS TO BE PLENUM RATED FLPLP ON J-KOOKS, UON.
26. ALL FIRE ALARM DEVICES SHALL BE CALIFORNIA STATE FIRE MARSHAL (CSFM) LISTED).
27. THE FIRE ALARM SYSTEM SHALL BE INSTALLED COMPLETELY IN CONFORMANCE WITH ALL REQUIREMENTS OF SB575 GREEN OAK FAMILY ACADEMY ELEMENTARY SCHOOL FIRE PROTECTION ACT.
28. SUPERVISORY STATION: AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO AN APPROVAL SUPERVISING STATION, AS REQUIRED BY NFPA 72, AS AMENDED BY ARTICLE 91. THE FIRE ALARM SYSTEM IS TO BE MONITORED BY CRIME ALERT, AN OFF-SITE U.L. CERTIFIED CENTRAL MONITORING STATION

CAUSE	EFFECT						ALARM			TROUBLE			SUPERVISORY			MISC.			REMARKS
	ALARM AT TACP	ALARM AT ANNUNCIATOR	ACTIVATE F.A. PANEL	ACTIVATE AUDIBLES	ACTIVATE AUDIO/VISUALS		TROUBLE AT TACP	TROUBLE AT ANNUNCIATOR	TROUBLE AT OFF SITE REPORTING	SUPERVISORY AT TACP	SUPERVISORY AT ANNUNCIATOR	SUPERVISORY AT OFF SITE REPORTING	FAN SHUT DOWN	DEACTIVATE AUDIBLES	DEACTIVATE AUDIO/VISUALS	ELEVATOR NORMAL	DOOR HOLDER RECALL	SHUT FIRE SMOKE DAMPERS	
DUCT SMOKE DETECTORS	•	•	•	•	•	•							•						
SMOKE DETECTORS	•	•	•	•	•	•							•					•	
HEAT DETECTORS	•	•	•	•	•	•												•	
MANUAL PULL STATIONS	•	•	•	•	•	•												•	
FIRE RISER FLOW SWITCH	•	•	•	•	•	•							•	•	•	•		•	
FIRE RISER TAMPER SWITCH							•	•	•		•	•	•						
SYSTEM RESET																			
SIGNAL SILENCE							•	•	•					•	•	•			
AC POWER FAILURE							•	•	•		•	•	•						
FIRE ALARM TROUBLE (OPEN, SHORTS, OR GROUNDS) ON INITIATION OR SIGNALING CIRCUITS							•	•	•										



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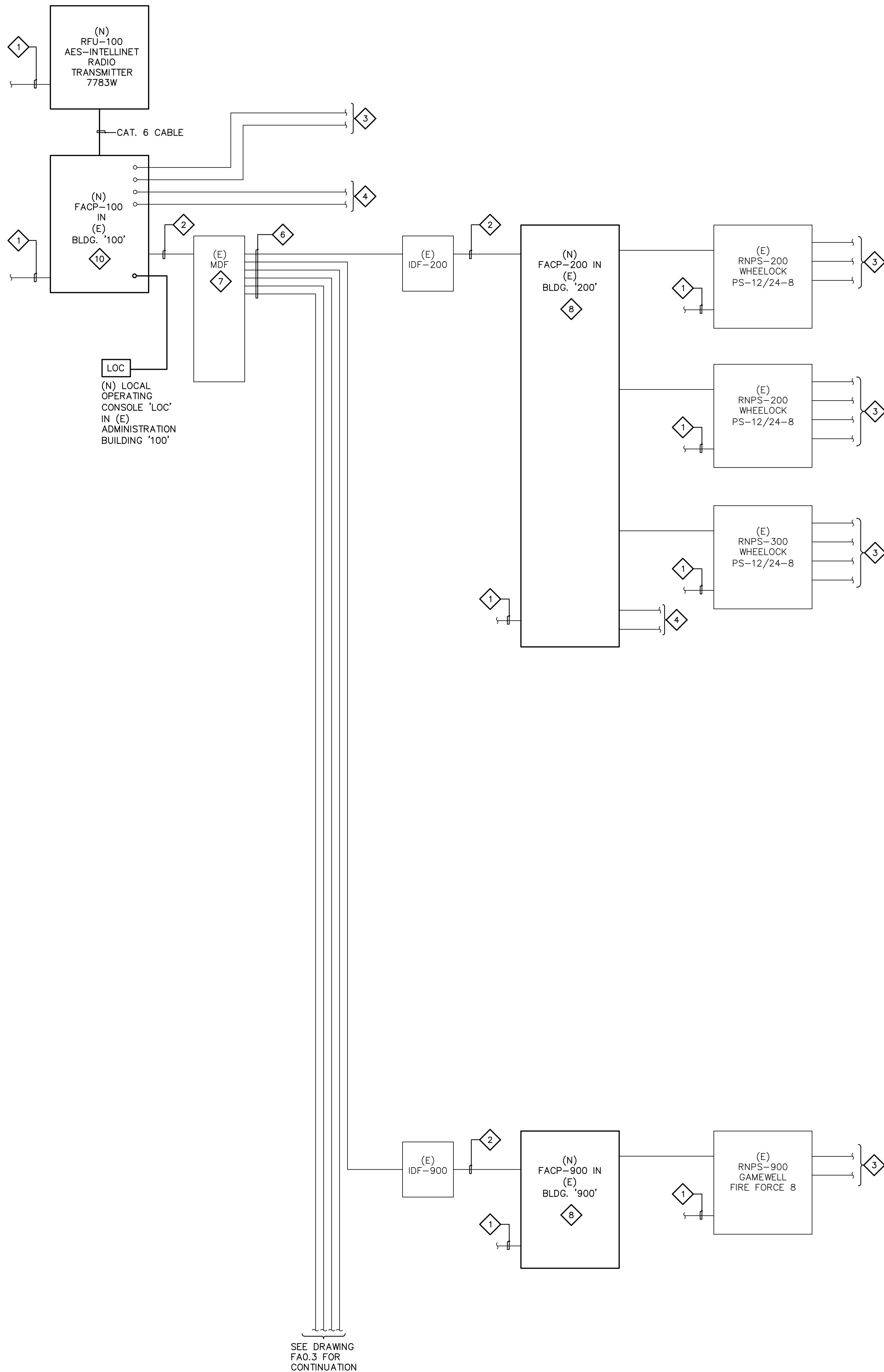
SHEET TITLE:
FIRE ALARM
RISER DIAGRAM

SHEET NO.:

FA0.2

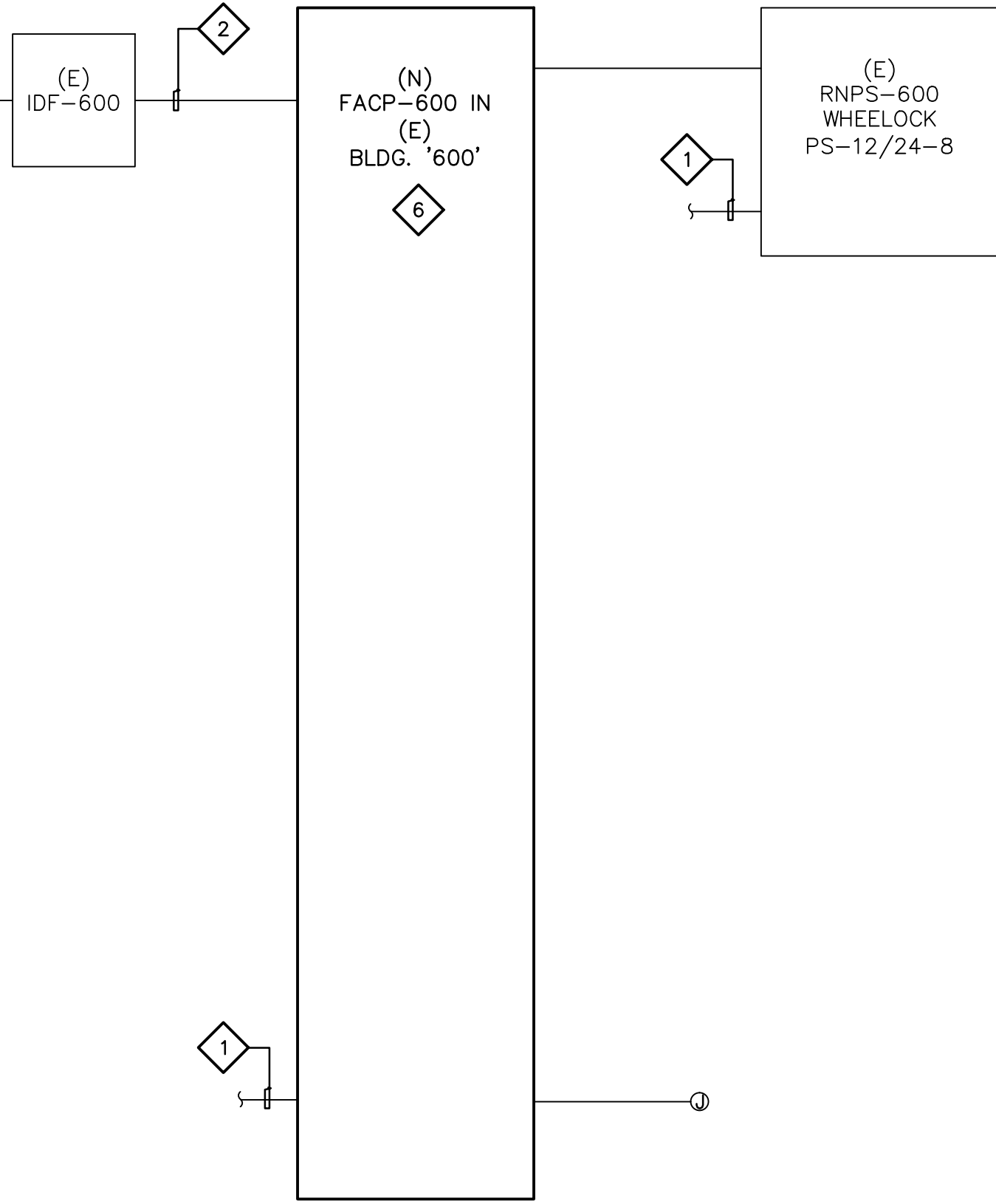
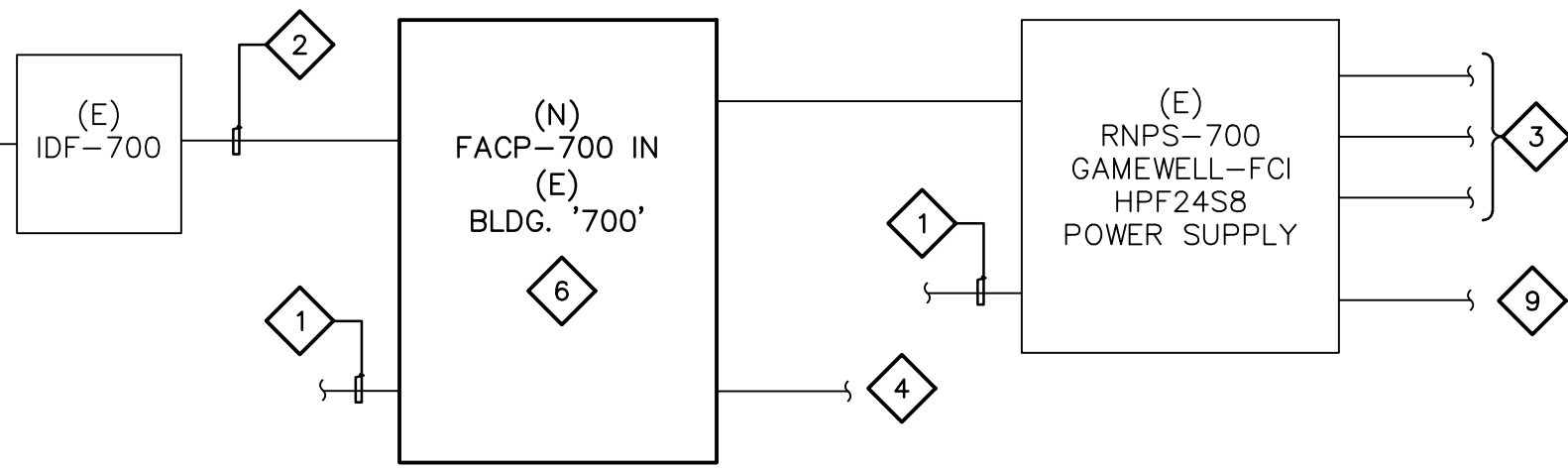
SHEET NOTES:

- CONNECT TO EXISTING 120 VOLT, 20 AMP, 1 POLE DEDICATED CIRCUIT.
- RECONNECT (E) DUAL STRAND MULTI-MODE FIBER OPTIC CABLE TO (N) FACP AS SHOWN.
- (E) NAC CIRCUIT CONNECTED TO (E) NOTIFICATION DEVICES.
- (E) SLC CIRCUIT CONNECTED TO (E) INITIATING DEVICES.
- ALL FIRE ALARM SYSTEM WIRING, COMPONENTS AND/OR EQUIPMENT SHOWN IN LIGHTER TEXT INDICATE EXISTING TO REMAIN. ALL FA EQUIPMENT THAT ARE SHOWN IN HEAVIER TEXT INDICATE EXISTING TO BE REPLACED WITH NEW.
- (E) DUAL STRAND MULTI-MODE FIBER OPTIC CABLE DEDICATED FOR COMMUNICATION TO MASTER FACP-100.
- ALL (E) FIBER OPTIC CABLE TERMINATED IN (E) FIBER OPTIC PATCH PANEL IN (E) MDF.
- (E) FA CONTROL PANEL TO BE RETROFITTED WITH NEW GAMEWELL-FCI E3 SERIES CONTROL UNIT COMPONENTS AND EQUIPMENT.
- (E) SPARE NOTIFICATION CIRCUIT.



1 FIRE ALARM RISER DIAGRAM 5
NOT TO SCALE

SEE DRAWING
FA0.2 FOR
CONTINUATION



SEE DRAWING
FA0.3 FOR
CONTINUATION

SHEET NOTES:

- CONNECT TO EXISTING 120 VOLT, 20 AMP, 1 POLE DEDICATED CIRCUIT.
- RECONNECT (E) DUAL STRAND MULTI-MODE FIBER OPTIC CABLE TO (N) FACP AS SHOWN.
- (E) NAC CIRCUIT CONNECTED TO (E) NOTIFICATION DEVICES.
- (E) SLC CIRCUIT CONNECTED TO (E) INITIATING DEVICES.
- ALL FIRE ALARM SYSTEM WIRING, COMPONENTS AND/OR EQUIPMENT SHOWN IN LIGHTER TEXT INDICATE EXISTING TO REMAIN. ALL FA EQUIPMENT THAT ARE SHOWN IN HEAVIER TEXT INDICATE EXISTING TO BE REPLACED WITH NEW.
- (N) GAMEWELL-FCI E3 SERIES CONTROL PANEL TO REPLACE EXISTING FACP.
- ALL (E) FIBER OPTIC CABLE TERMINATED IN (E) FIBER OPTIC PATCH PANEL IN (E) MDF.
- (E) FA CONTROL PANEL TO BE RETROFITTED WITH NEW GAMEWELL-FCI E3 SERIES CONTROL UNIT COMPONENTS AND EQUIPMENT.
- (E) SPARE NOTIFICATION CIRCUIT.



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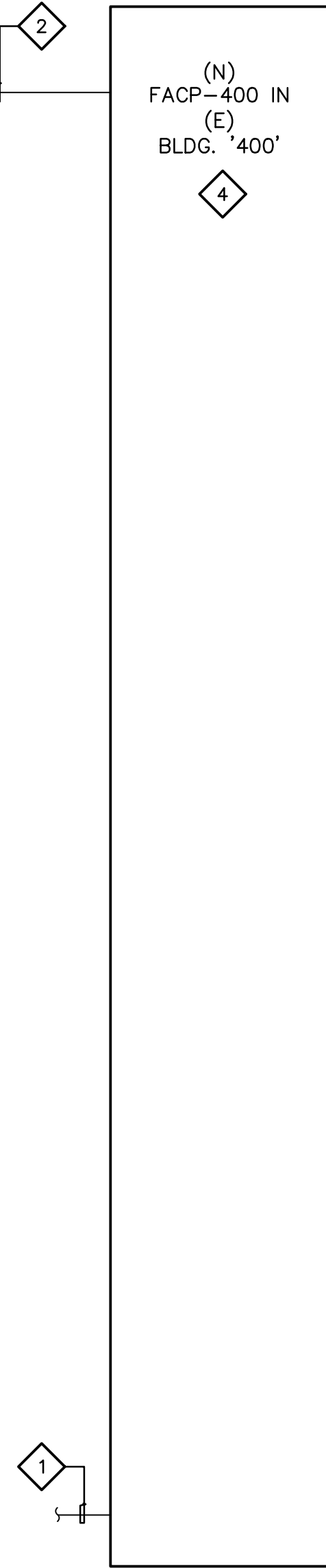
SHEET TITLE:
FIRE ALARM
RISER DIAGRAM

SHEET NO.:

FA0.4

SEE DRAWING
FA0.3 FOR
CONTINUATION

(E)
IDF-400

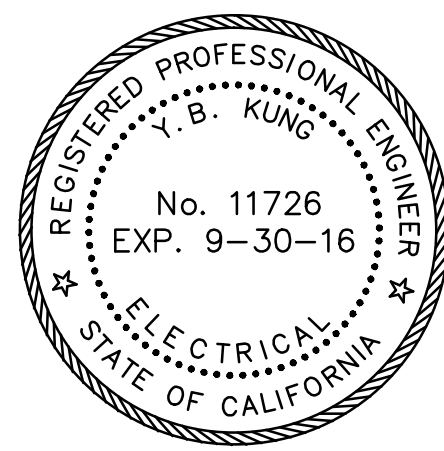
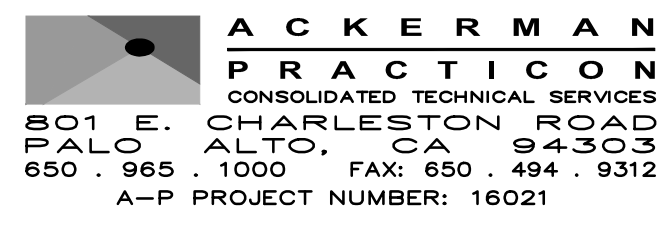


(E)
RNPS-400
WHEELLOCK
PS-12/24-8
IN
(E) BLDG. 400

(E)
RNPS-
GAMEWELL-FC-1
HPF24S8
IN
(E) BOYS
LOCKER RM.

(E)
RNPS-
GAMEWELL-FC1
HPF24S8
IN
(E) GIRLS
LOCKER RM.

1 **FIRE ALARM RISER DIAGRAM** **5**
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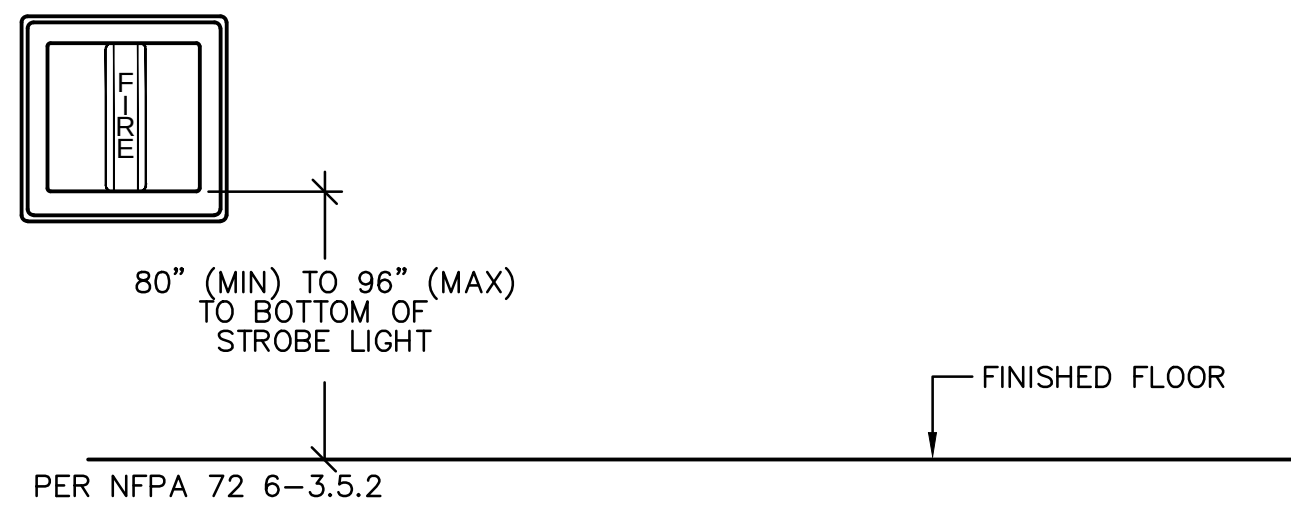
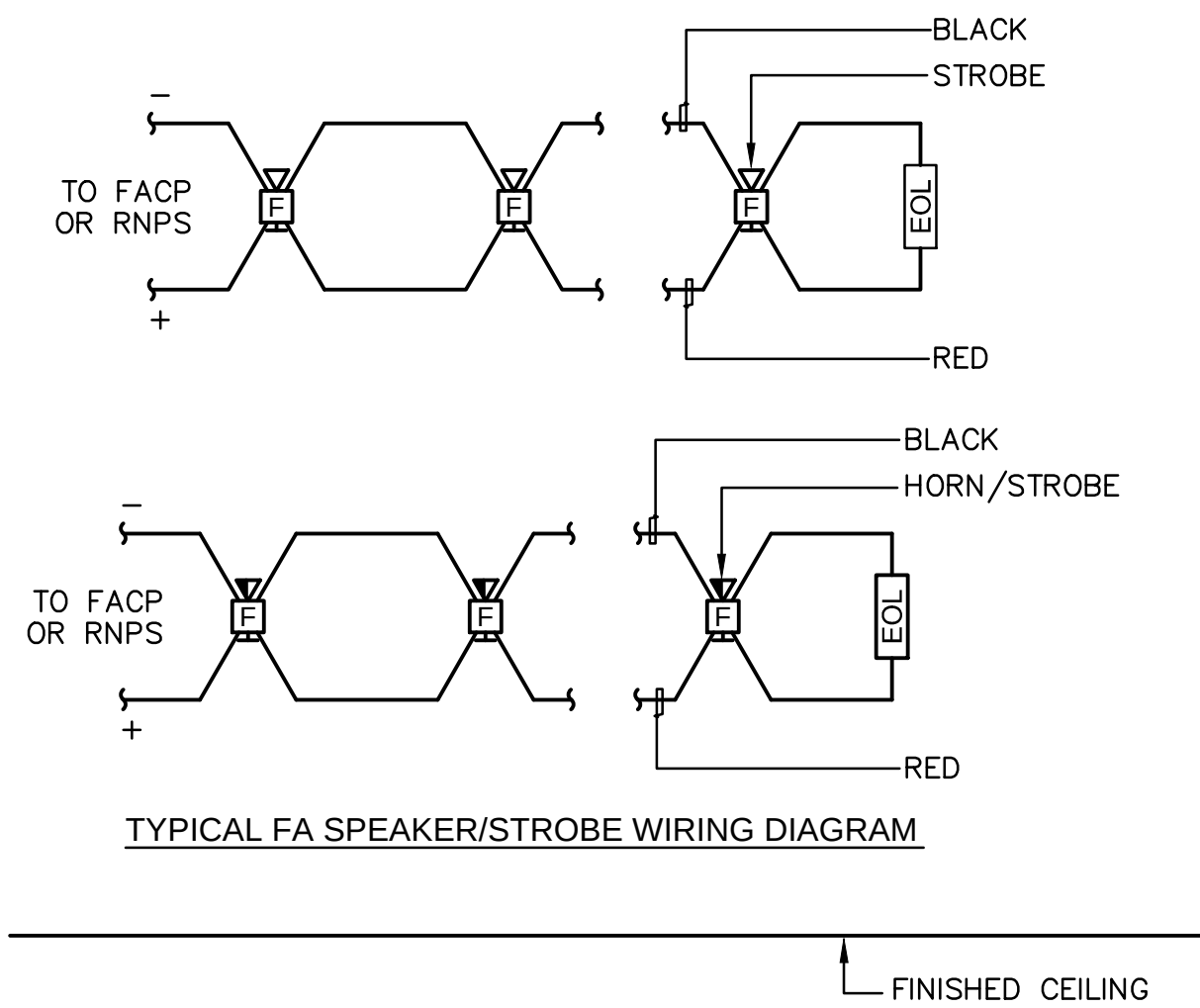
JOB NO.:	
16021	
DRAWN BY:	DATE:
AP	05-23-2016
ENG. APPROVAL:	
DAVID KUNG	
PM APPROVAL:	
DAVID KUNG	
SCALE:	
AS SHOWN	

FIRE ALARM BATTERY AND VOLTAGE DROP CALCULATIONS

SHEET NO.:

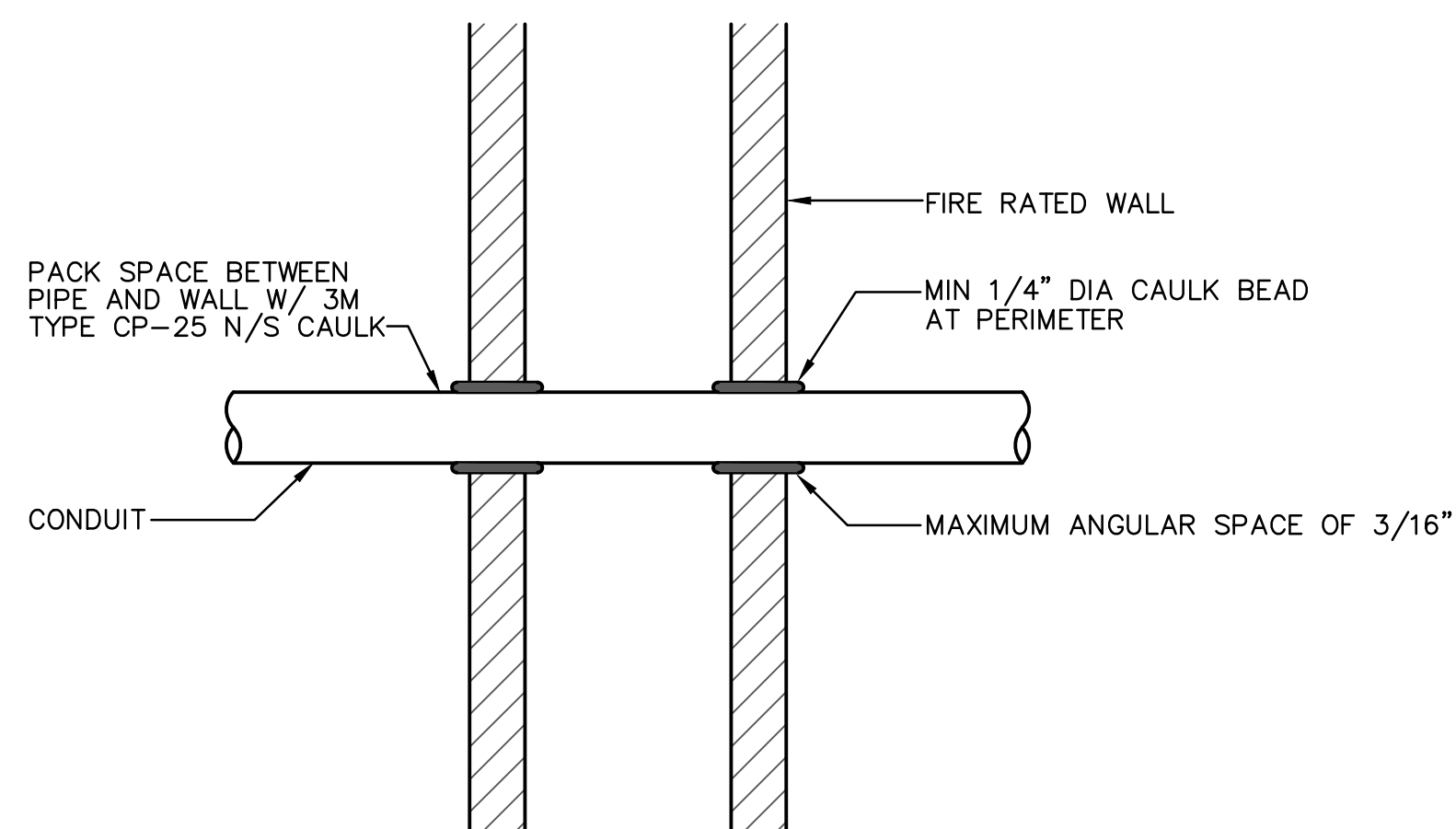
FA0.6

[illegible][illegible][illegible]



7 FA SPEAKER/STROBE INSTALLATION

NOT TO SCALE



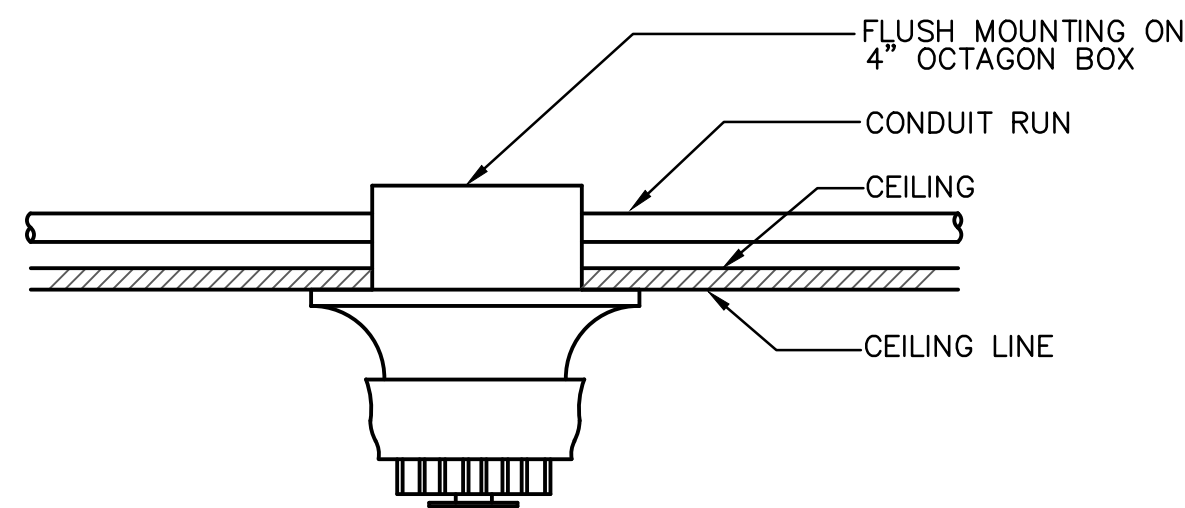
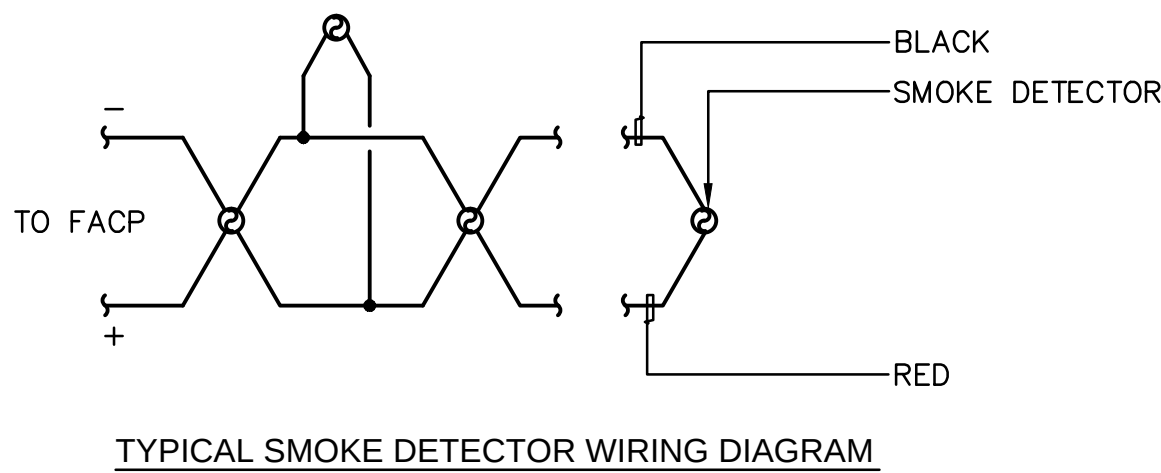
CONDUIT SIZE UP TO 4" FIRE RATING UP TO 2 HOURS

DETAIL NOTES

1. SIMILAR TO U.L. FIRE RESISTANCE DIRECTORY SYSTEM W-L-1001.

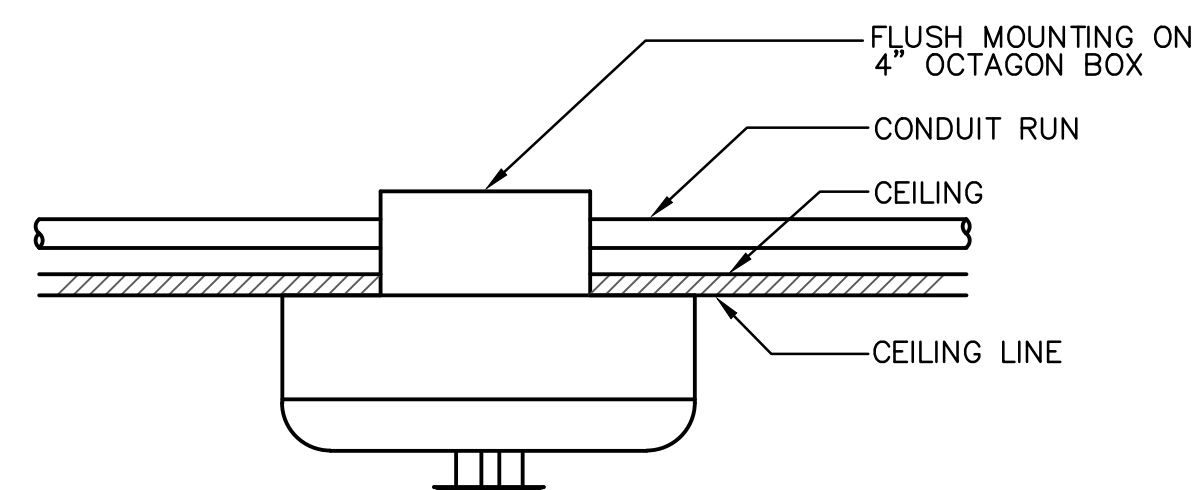
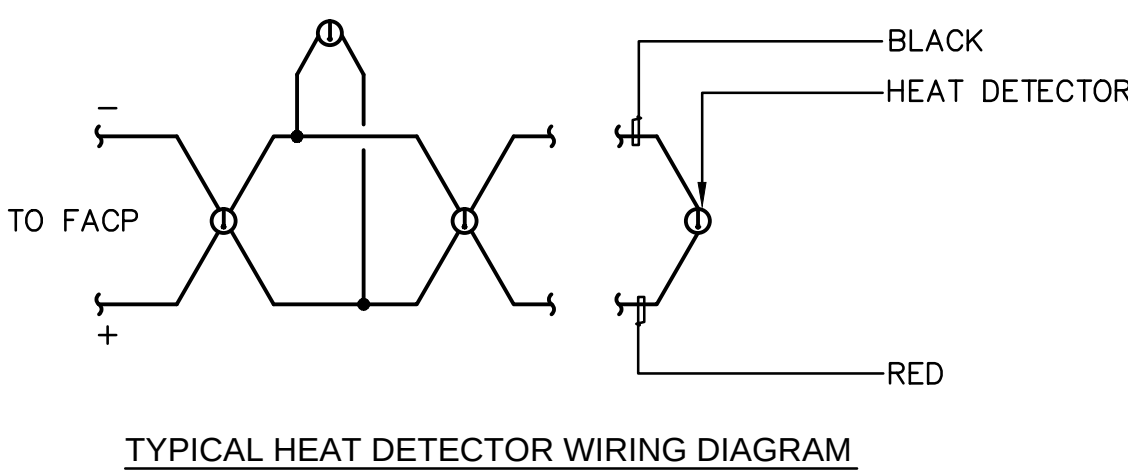
8 PULL STATION MOUNTING DETAIL

NOT TO SCALE



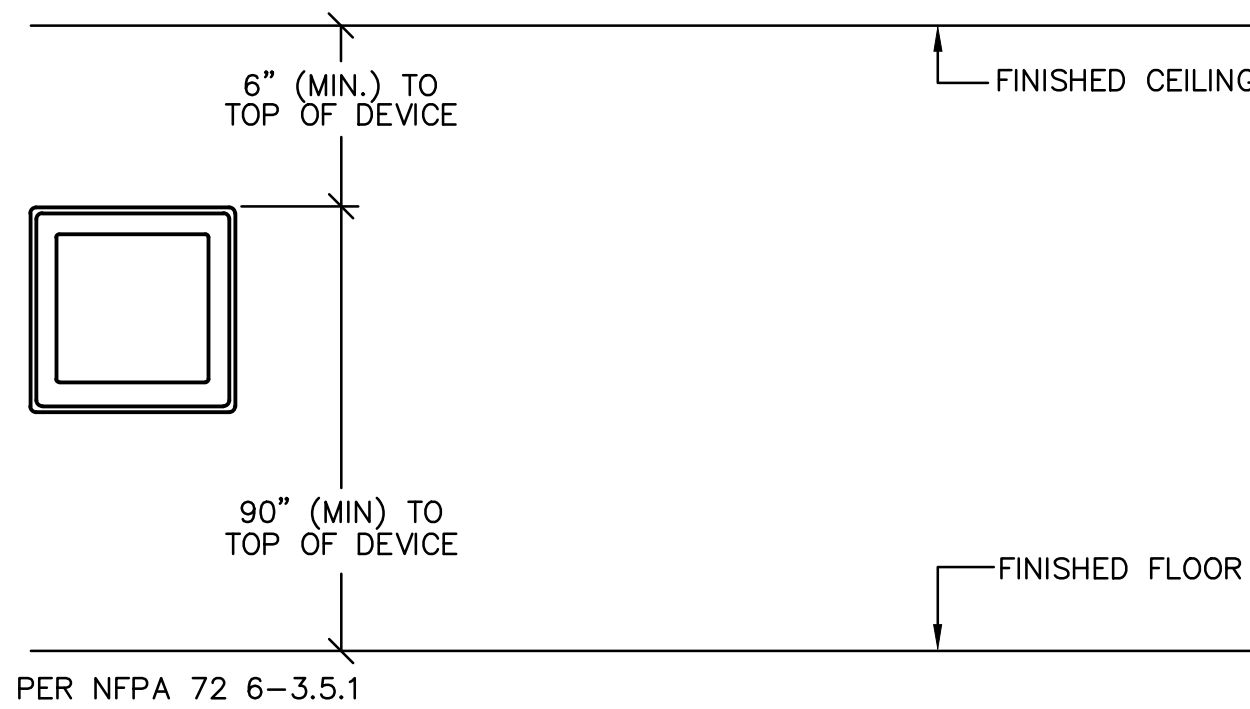
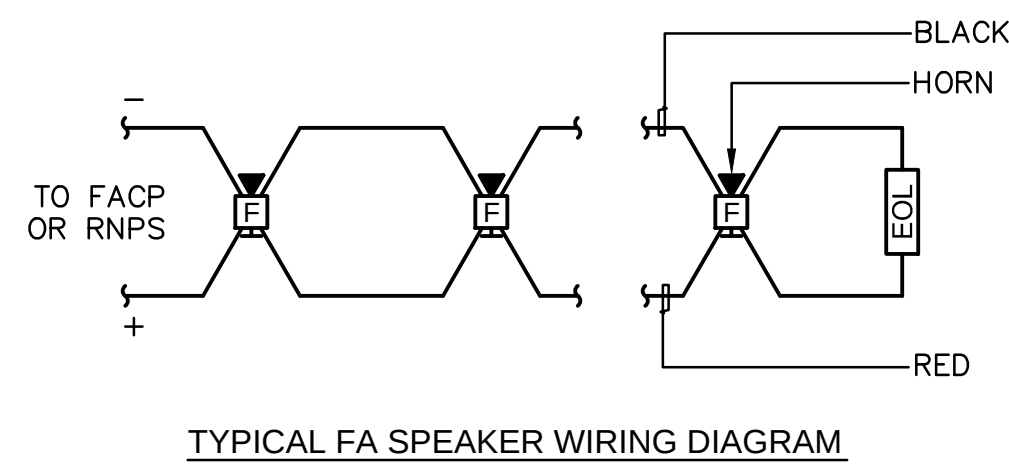
4 ADDRESSABLE SMOKE DETECTOR INSTALLATION

NOT TO SCALE



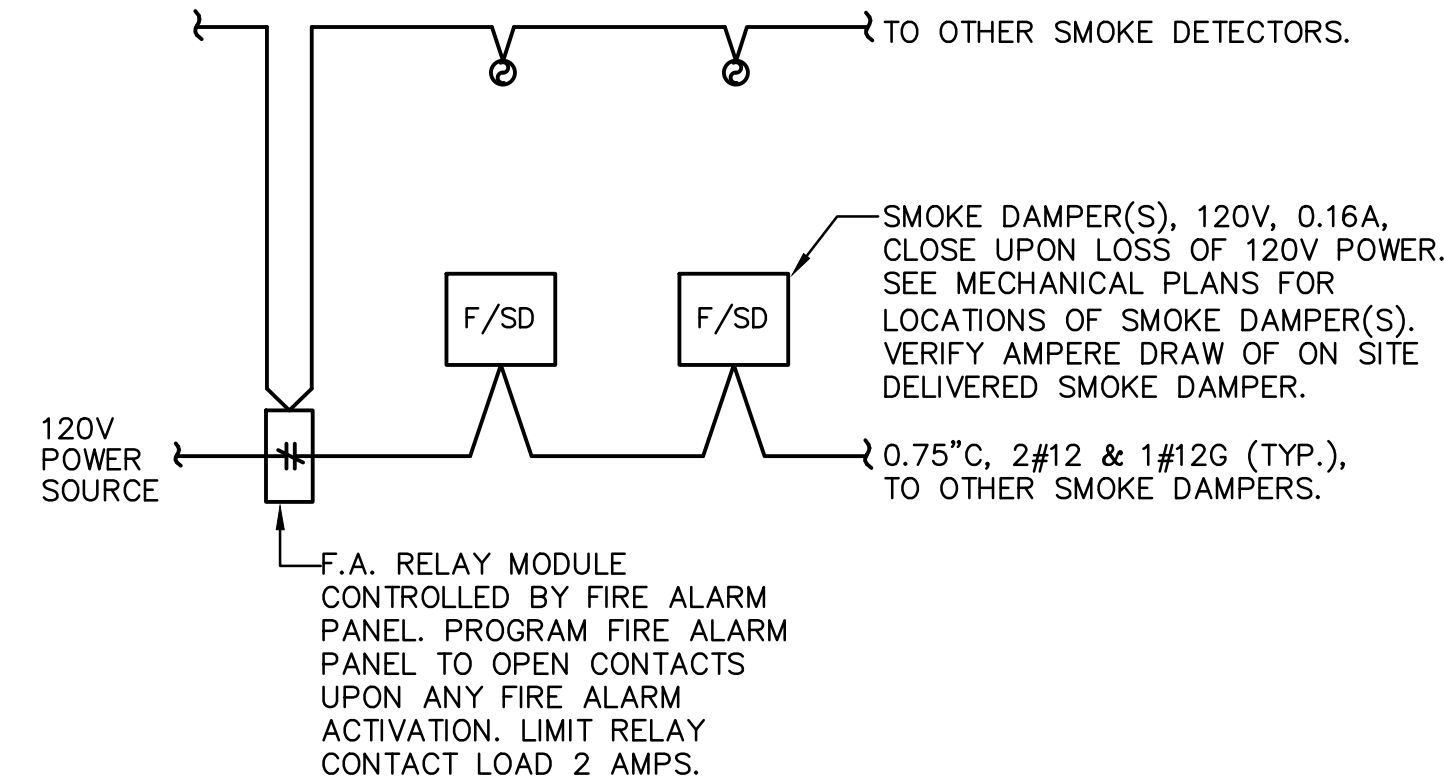
5 ADDRESSABLE HEAT DETECTOR INSTALLATION

NOT TO SCALE



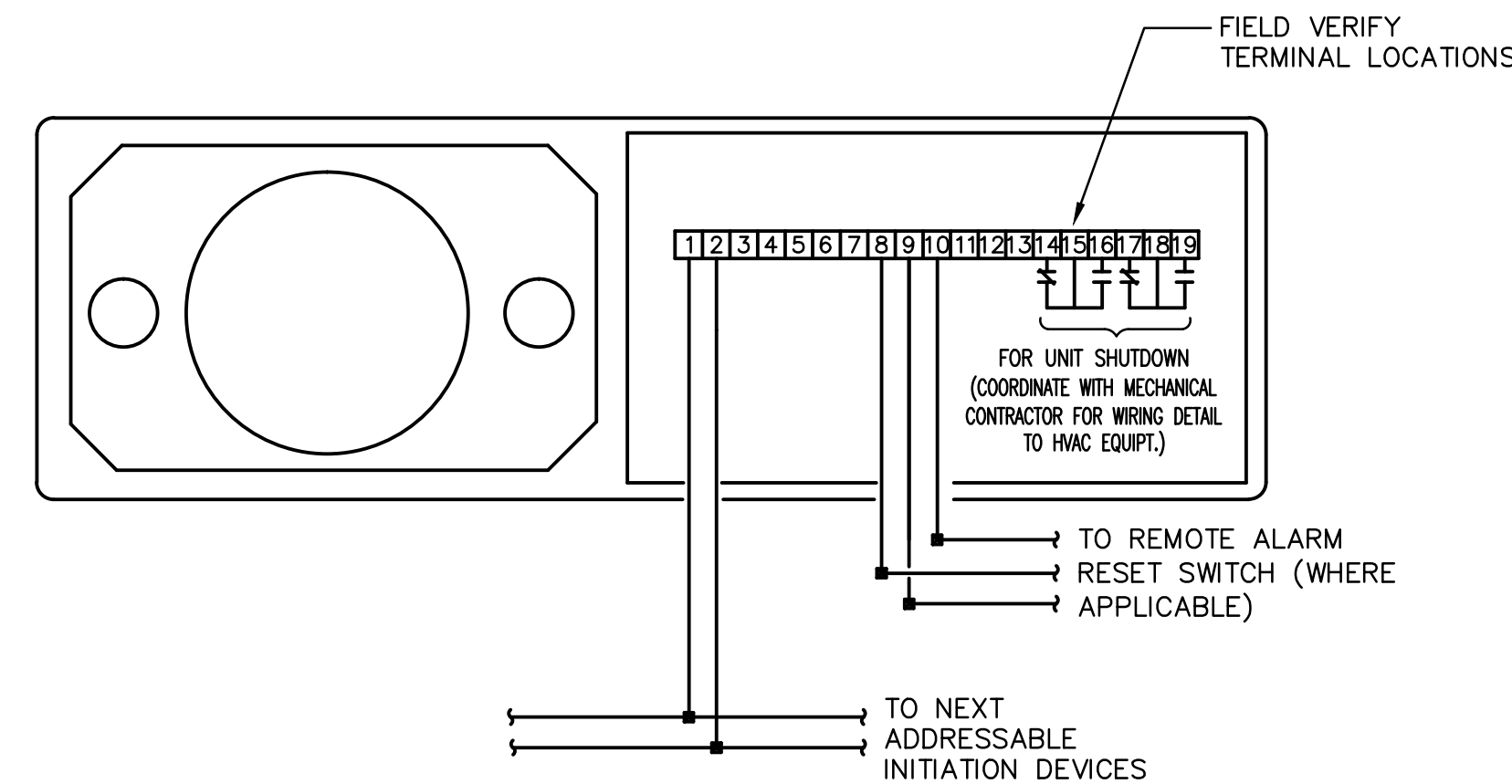
6 FA SPEAKER INSTALLATION

NOT TO SCALE



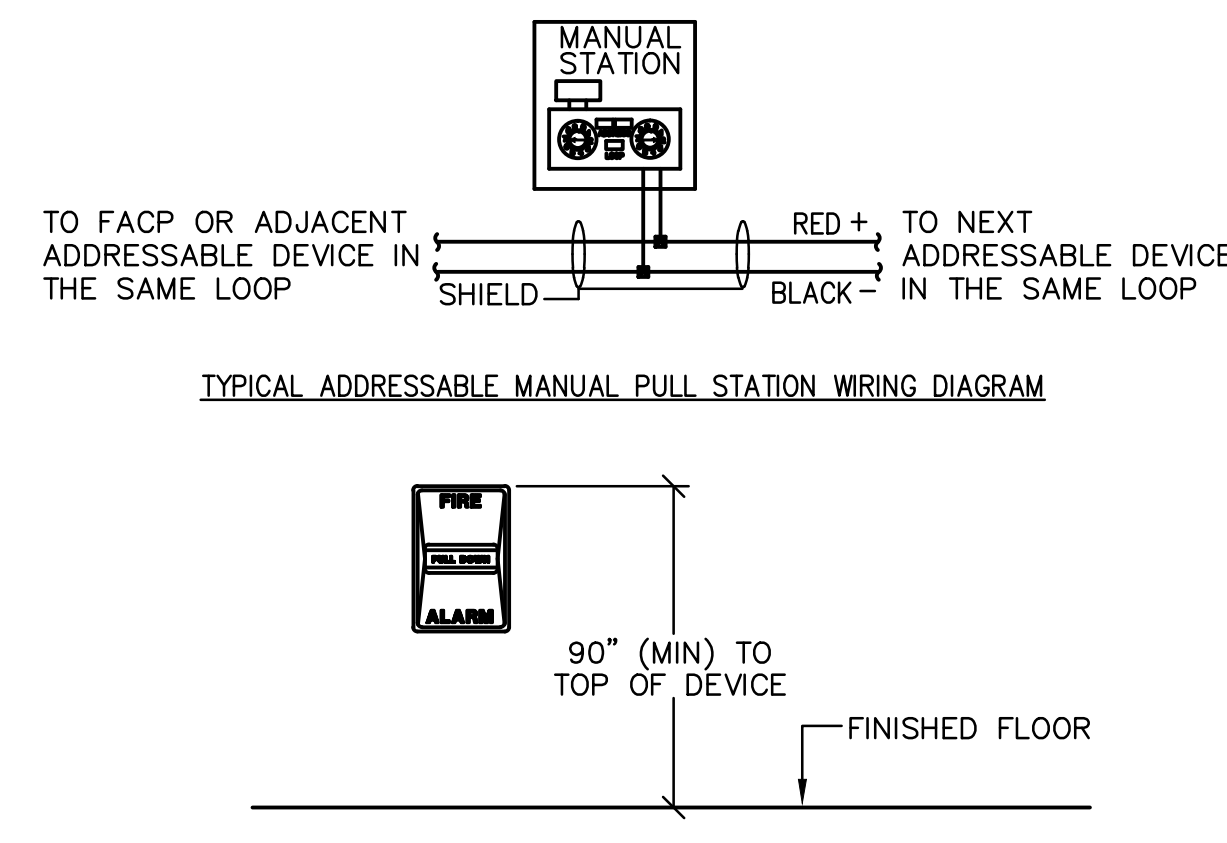
1 FIRE/SMOKE DAMPER DETAIL

NOT TO SCALE



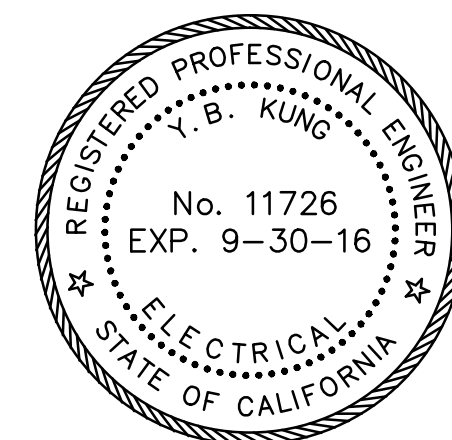
2 TYPICAL DUCT SMOKE DETECTOR WIRING DIAGRAM

NOT TO SCALE



3 PULL STATION MOUNTING DETAIL

NOT TO SCALE



REVISION:	DATE:

FIRE ALARM MODERNIZATION YERBA BUENA HIGH SCHOOL 155 LUCRETIA AVENUE SAN JOSE, CA 95122

OWNER:
East Side Union
High School District
830 North Capital Ave
San Jose, CA 95133
P: (408)347-5000
F: (408)347-5045

GENERAL CONTRACTOR:
Gonsalves & Stronck Const. Co., Inc.
1000 Washington Street
San Carlos, CA 94070-5319
P:

FIRE ALARM CONSULTANT:
INTREPID
6300 San Ignacio Ave.
San Jose, CA 95119-1213
P: (510) 597-9966
F: (510) 597-9980

ELECTRICAL CONTRACTOR:
Smith & Sons Electric, Inc.
44081 South Grimmer Blvd.
Fremont, CA 94538-6382
P: (510) 651-4994

JOB NO.:	16021
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ENG. APPROVAL:	DAVID KUNG
PM APPROVAL:	DAVID KUNG
SCALE:	AS SHOWN

SHEET TITLE:
**FIRE ALARM
DETAILS**

SHEET NO.:

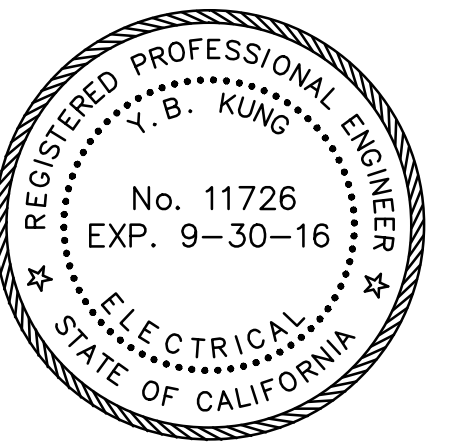
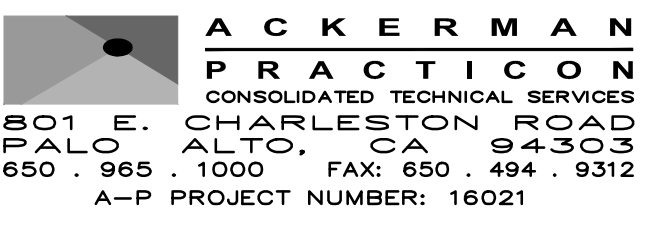
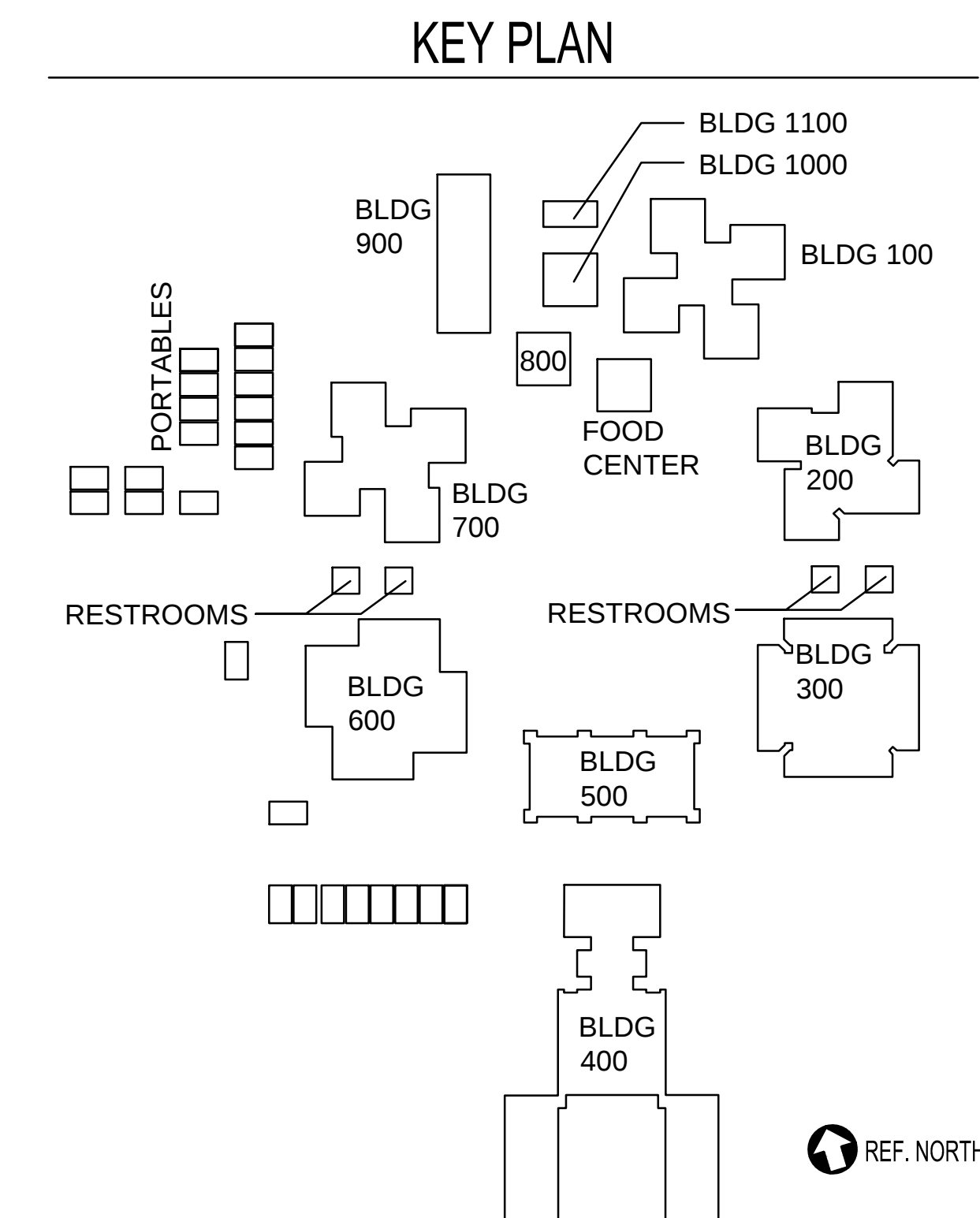
FA0.7



GENERAL NOTES:

SHEET NOTES:

EXISTING BUILDING CLASSIFICATION		
BUILDING NAME	CONSTRUCTION TYPE	OCCUPANCY TYPE
BLDG. 100	V-N	E-1
BLDG. 200	V-N	E-1
BLDG. 300	V-N	E-1
BLDG. 400	III-A	A-3
BLDG. 500	III-B	A-1
BLDG. 600	V-N	E-1
BLDG. 700	V-N	E-1
BLDG. 900	V-N	E
PORTABLES	V	E-1
PRESS BOX	V-N	A-4



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SHEET TITLE:

**FIRE ALARM
SITE PLAN**

SHEET NO.:

FA1.0