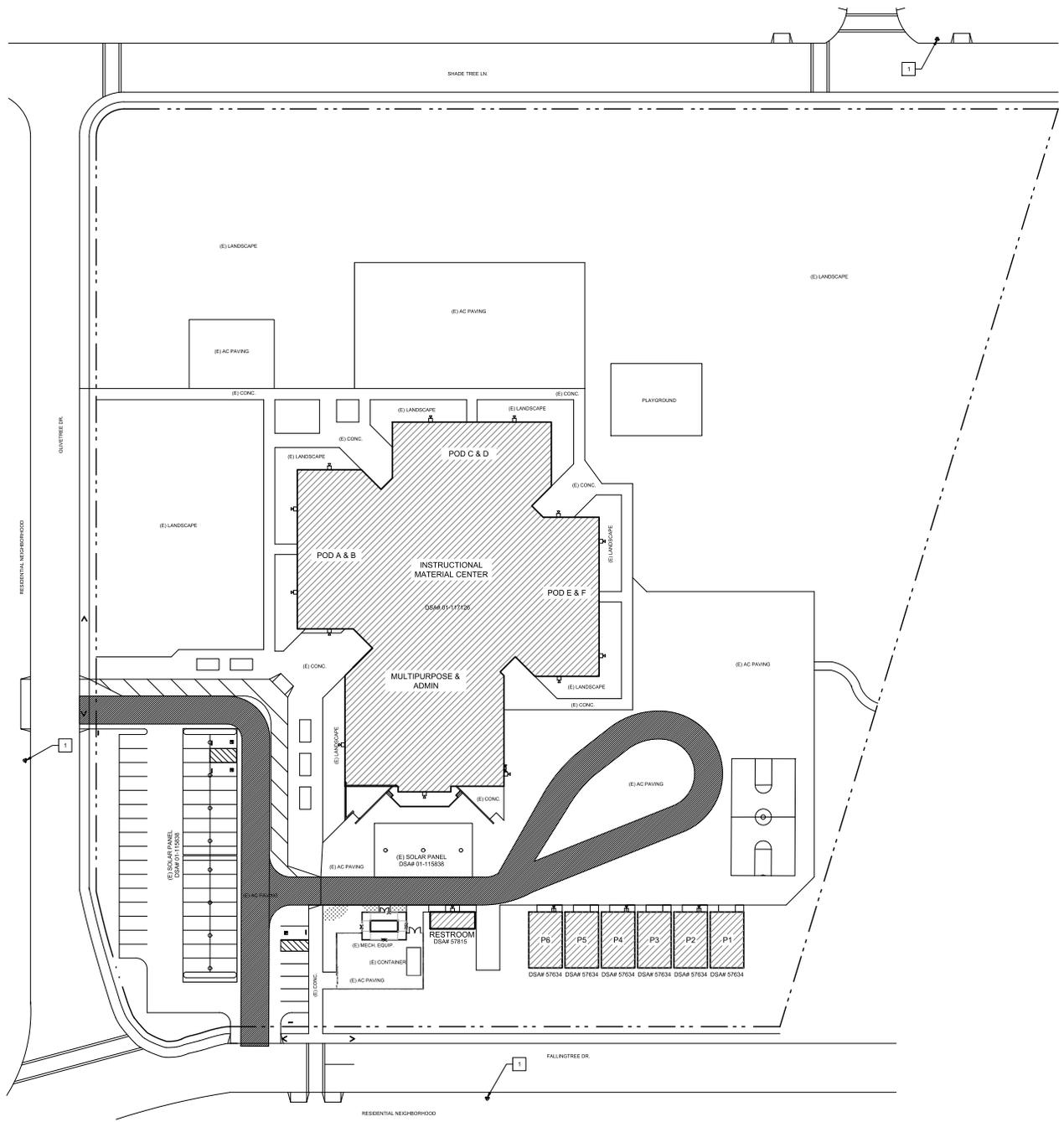




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1 SITE PLAN - FIRE LIFE SAFETY



PROJECT SUMMARY

CAMPUS WIDE FIRE ALARM SYSTEM REPLACEMENT.

GENERAL NOTES

- A. THIS SHEET IS FOR FIRE LIFE SAFETY CODE RELATED ITEMS.
- B. REFER TO FIRE ALARM DRAWINGS FOR EXTENT OF OTHER RELATED WORK.

SITE PLAN - FIRE LIFE SAFETY NOTES

- 1. EXISTING FIRE HYDRANT.

\* BUILDING CODE ANALYSIS

BUILDING	CONSTRUCTION TYPE OCCUPANCY TYPE	AREA (SQ.FT.)	ALLOWABLE (SQ.FT.)	# OF STORES
MULTIPURPOSE & ADMIN	V-B / A-3, B, E & S-2	11,037	53,960	1 NON SPRINKLER
INSTRUCTIONAL MATERIAL CENTER	V-B / A-3 & E	7,342	15,500	1 NON SPRINKLER
POD A & B CLASSROOM	V-B / E	7,240	9,500	1 NON SPRINKLER
POD C & D CLASSROOM	V-B / E	7,240	9,500	1 NON SPRINKLER
POD E & F CLASSROOM	V-B / E	7,240	9,500	1 NON SPRINKLER
RELOC. P1 - P6	V-N / E1	5,760	9,500	1 NON SPRINKLER
RELOC. RR	V-B / E	384	9,500	1 NON SPRINKLER

\*NO OCCUPANCY CHANGE, SIGNIFICANT ALTERATION, OR INCREASE IN SQUARE FOOTAGE IS PROPOSED FOR THIS PROJECT SCOPE OF WORK; BUILDINGS DO NOT REQUIRE THE ADDITION OF SPRINKLERS. EXISTING BUILDING CONSTRUCTION TYPE WILL BE MAINTAINED.

GRAPHIC KEY

- EXISTING PROPERTY LINE
  - - - ROOF OVERHANG
  - - - CHAIN LINK FENCE
  - - - DECORATIVE FENCE
  - ▨ EXISTING BUILDING
  - █ (E) FIRE DEPARTMENT ACCESS
  - ⊙ (E) FIRE HYDRANT
  - ⊕ (E) SIGN
  - ⊞ (E) WALL MOUNTED SPEAKER
- SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.



SITE PLAN  
FIRE LIFE SAFETY

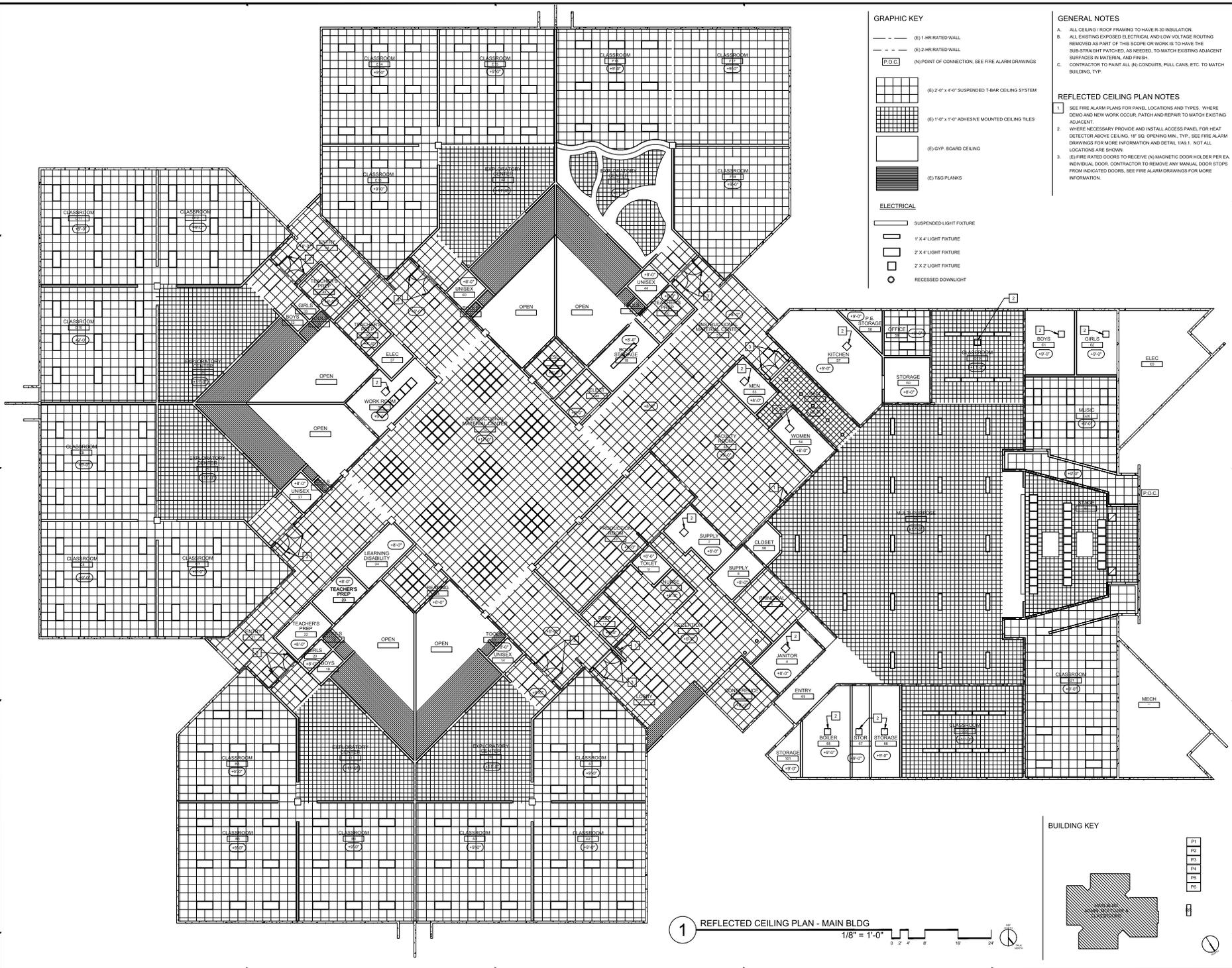
FIRE ALARM SYSTEM UPGRADE  
BROOKTREE ELEMENTARY SCHOOL  
1781 OLIVETREE DRIVE, SAN JOSE, CA 95131  
BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

DRAWN BY: RWL  
CHECKED BY: M.B.  
SFA JOB NO.: 22852 DATE: 04/03/2023



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GRAPHIC KEY

- (E) 1-HR RATED WALL
  - (E) 2-HR RATED WALL
  - (P.O.C) (N) POINT OF CONNECTION, SEE FIRE ALARM DRAWINGS
  - (E) 2" x 4" x 4" SUSPENDED T-BAR CEILING SYSTEM
  - (E) 1" x 1" x 1" ADHESIVE MOUNTED CEILING TILES
  - (E) GYP. BOARD CEILING
  - (E) T&G PLANKS
- ELECTRICAL**
- SUSPENDED LIGHT FIXTURE
  - 1' x 4' LIGHT FIXTURE
  - 2' x 4' LIGHT FIXTURE
  - 2' x 2' LIGHT FIXTURE
  - RECESSED DOWNLIGHT

GENERAL NOTES

- A. ALL CEILING / ROOF FRAMING TO HAVE R-30 INSULATION.
- B. ALL EXISTING EXPOSED ELECTRICAL AND LOW VOLTAGE ROUTING REMOVED AS PART OF THIS SCOPE OR WORK IS TO HAVE THE SUB-STRAIGHT PATCHES, AS NEEDED, TO MATCH EXISTING ADJACENT SURFACES IN MATERIAL AND FINISH.
- C. CONTRACTOR TO PAINT ALL (N) CONDUITS, PULL CANS, ETC. TO MATCH BUILDING, TYP.

REFLECTED CEILING PLAN NOTES

1. SEE FIRE ALARM PLANS FOR PANEL LOCATIONS AND TYPES. WHERE DEMO AND NEW WORK OCCUR, PATCH AND REPAIR TO MATCH EXISTING ADJACENT.
2. WHERE NECESSARY PROVIDE AND INSTALL ACCESS PANEL FOR HEAT DETECTOR ABOVE CEILING, 18" SQ. DRIVING MIN. TYP. SEE FIRE ALARM DRAWINGS FOR MORE INFORMATION AND DETAIL 100-1. NOT ALL LOCATIONS ARE SHOWN.
3. IF FIRE RATED DOORS TO RECEIVE (N) MAGNETIC DOOR HOLDER PER EA. INDIVIDUAL DOOR, CONTRACTOR TO REMOVE ANY MANUAL DOOR STOPS FROM INDICATED DOORS. SEE FIRE ALARM DRAWINGS FOR MORE INFORMATION.



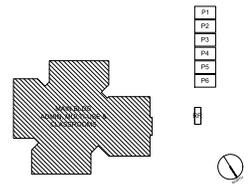
REFLECTED CEILING PLAN - MAIN BUILDING  
 FIRE ALARM SYSTEM UPGRADE  
 BROOKTREE ELEMENTARY SCHOOL  
 1781 OLIVETREE DRIVE, SAN JOSE, CA 95131  
 BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

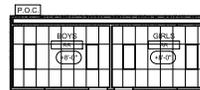
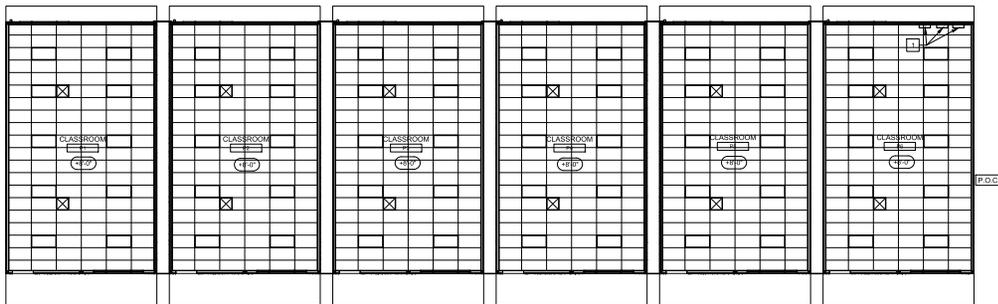
DRAWN BY: RNL  
 CHECKED BY: M.B.  
 SFA JOB NO: 22082 DATE: 06/03/2023

1 REFLECTED CEILING PLAN - MAIN BLDG  
 1/8" = 1'-0"  
 0 2 4 8 16 24 30

BUILDING KEY



2 REFLECTED CEILING PLANS - PORTABLES



GENERAL NOTES

- A. ALL CEILING ROOF FRAMING TO HAVE R-30 INSULATION.
- B. ALL EXISTING EXPOSED ELECTRICAL AND LOW VOLTAGE ROUTING REMOVED AS PART OF THIS SCOPE OR WORK IS TO HAVE THE SUB-STRAIGHT PATCHED, AS NEEDED, TO MATCH EXISTING ADJACENT SURFACES IN MATERIAL AND FINISH.
- C. CONTRACTOR TO PAINT ALL IN, CONDUITS, PULL CANS, ETC. TO MATCH BUILDING, TYP.

REFLECTED CEILING PLAN NOTES

- 1. SEE FIRE ALARM PLANS FOR PANEL LOCATIONS AND TYPES. WHERE DEMO AND NEW WORK OCCUR, PATCH AND REPAIR TO MATCH EXISTING ADJACENT.

GRAPHIC KEY

- P.O.C. (N) POINT OF CONNECTION, SEE FIRE ALARM DRAWINGS
- X (E) SUPPLY DIFFUSER
- (E) 2' X 4' LIGHT FIXTURE

BUILDING KEY



(DO NOT STAMP AREA)

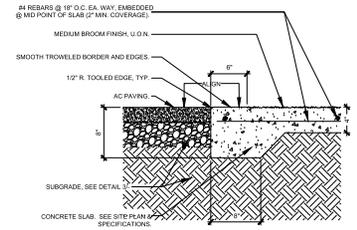


REFLECTED CEILING PLANS - PORTABLES

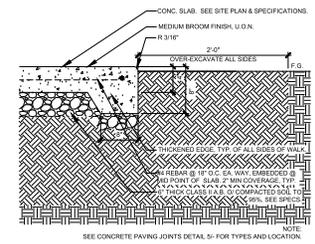
FIRE ALARM SYSTEM UPGRADE  
 BROOKTREE ELEMENTARY SCHOOL  
 1781 OLIVETREE DRIVE, SAN JOSE, CA 95131  
 BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

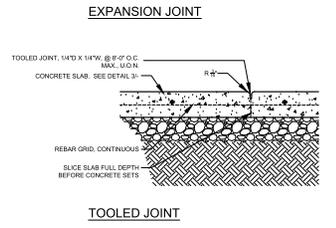
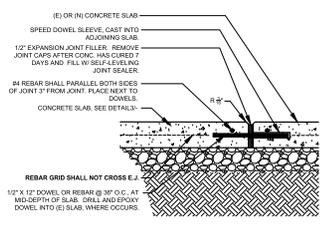
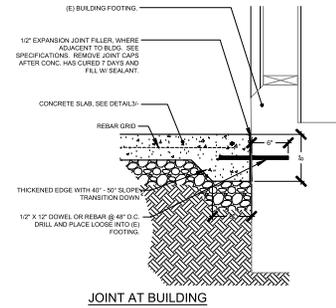
DRAWN BY:                      RNL  
 CHECKED BY:                      M.B.L.  
 SFA JOB NO: 22082 DATE: 04/03/2023



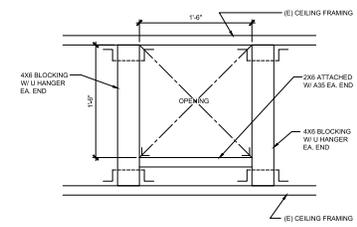
4 ASPHALT / CONCRETE JOINT 1-1/2"=1'-0"



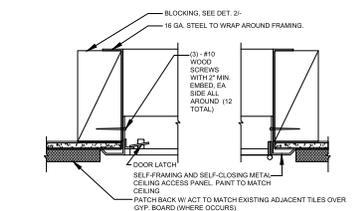
3 EDGE OF CONC. PAVING 1-1/2"=1'-0"



5 CONCRETE PAVING JOINTS 1-1/2"=1'-0"



2 NEW OPENING AT CEILING FOR ACCESS PANEL 1-1/2"=1'-0"



1 CEILING ACCESS PANEL @ HARD LID CEILING 3"=1'-0"



**TYPICAL DETAILS**  
 FIRE ALARM SYSTEM UPGRADE  
 BROOKTREE ELEMENTARY SCHOOL  
 1781 OLIVETREE DRIVE, SAN JOSE, CA 95131  
 BERRYESSA UNION SCHOOL DISTRICT

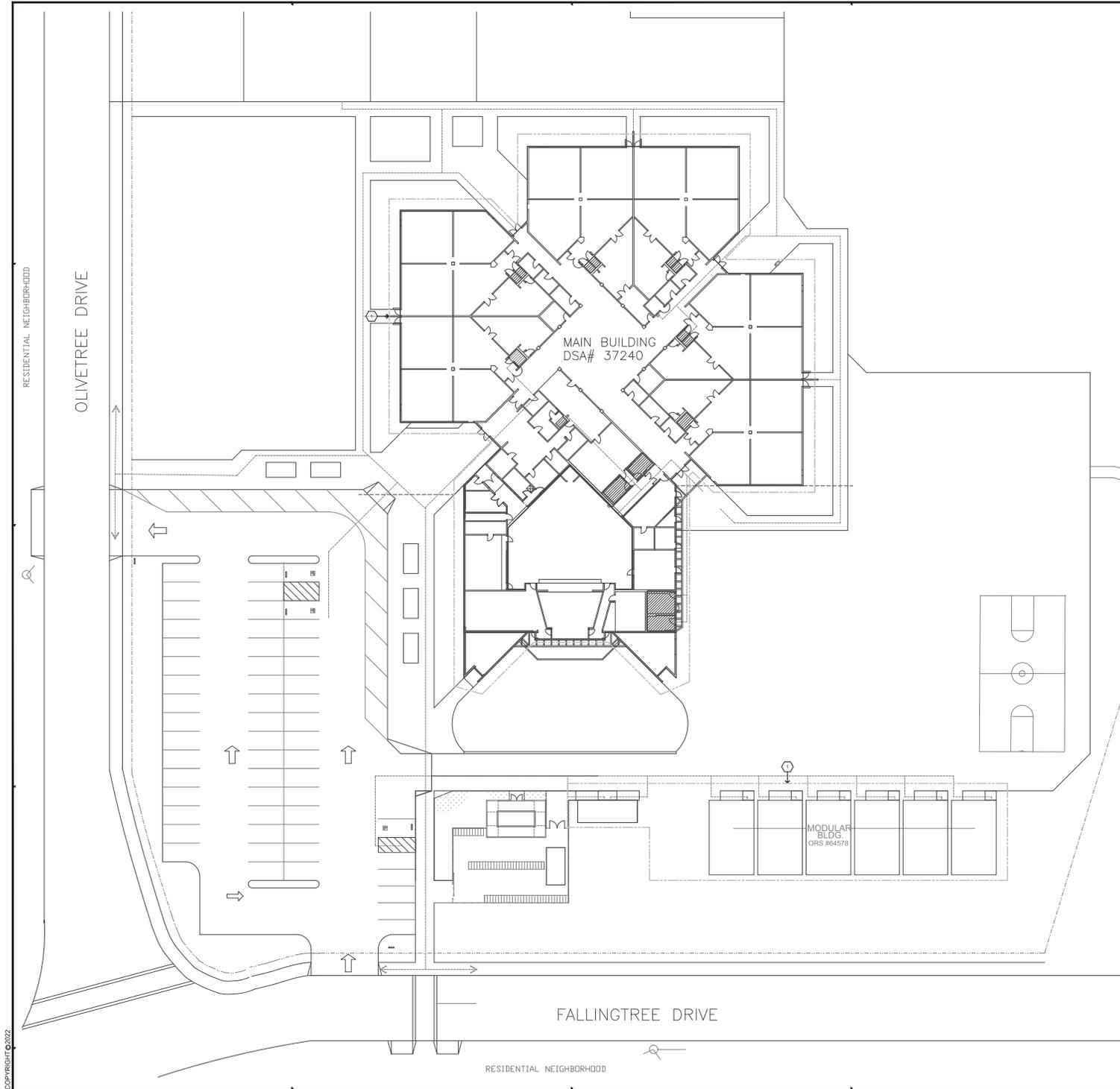
REVISIONS NO.	ITEM	DATE

DRAWN BY: RWL  
 CHECKED BY: M.B.  
 SFA JOB NO.: 22082 DATE: 04/03/2023









**○ SHEET NOTES**

- CONTRACTOR SHALL DEMOLISH FIRE ALARM SYSTEM COMPLETE. FIRE ALARM CONTROL PANEL, DEVICES, WIRING, ETC. PER GENERAL DEMOLITION NOTES ON THIS SHEET. PROVIDE AND INSTALL DEVICE COVER PLATES TO ENCLOSE ALL OPENINGS ARE COMPLETELY COVERED FROM REMOVED DEVICES. PAINT FINISH TO MATCH EXISTING WALLS. CONTRACTOR SHALL REMOVE QUANTITY OF DEVICES TO BE THE SAME AS QUANTITY OF NEW DEVICES BEING ADDED AS PART OF NEW WORK. IN ADDITIONAL, ALL HEAT DETECTORS IN ACCESSIBLE CEILING SPACES SHALL BE DEMOLISHED COMPLETE. ASSUME MINIMUM (2) HEAT DETECTORS PER ENCLOSED SPACE. CONTRACTOR SHALL INSTALL COVER PLATES AND PATCH WALL/CEILING WHERE EXISTING DEVICES ARE REMOVED.

**GENERAL DEMOLITION NOTES**

- CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.
- 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.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.
- WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED 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.
- ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.
- NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
- EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
- EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK. MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND CONCEAL WITH LOCATION SHOWN FOR THE NEW WORK.
- 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.
- WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS 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 INTERRUPTING. WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.

(DSA STAMP AREA)

SFA




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10000  
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Project No. 030823

**FIRE ALARM DEMOLITION PLAN**

**FIRE ALARM UPGRADE  
BROOKTREE ELEMENTARY SCHOOL  
1781 OLIVETREE DRIVE, SAN JOSE, CA 95131  
BERRYESSA UNION SCHOOL DISTRICT**

REVISIONS	NO.	ITEM	DATE
	1	DSA RESUBMITTAL	03/28/23

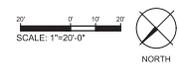
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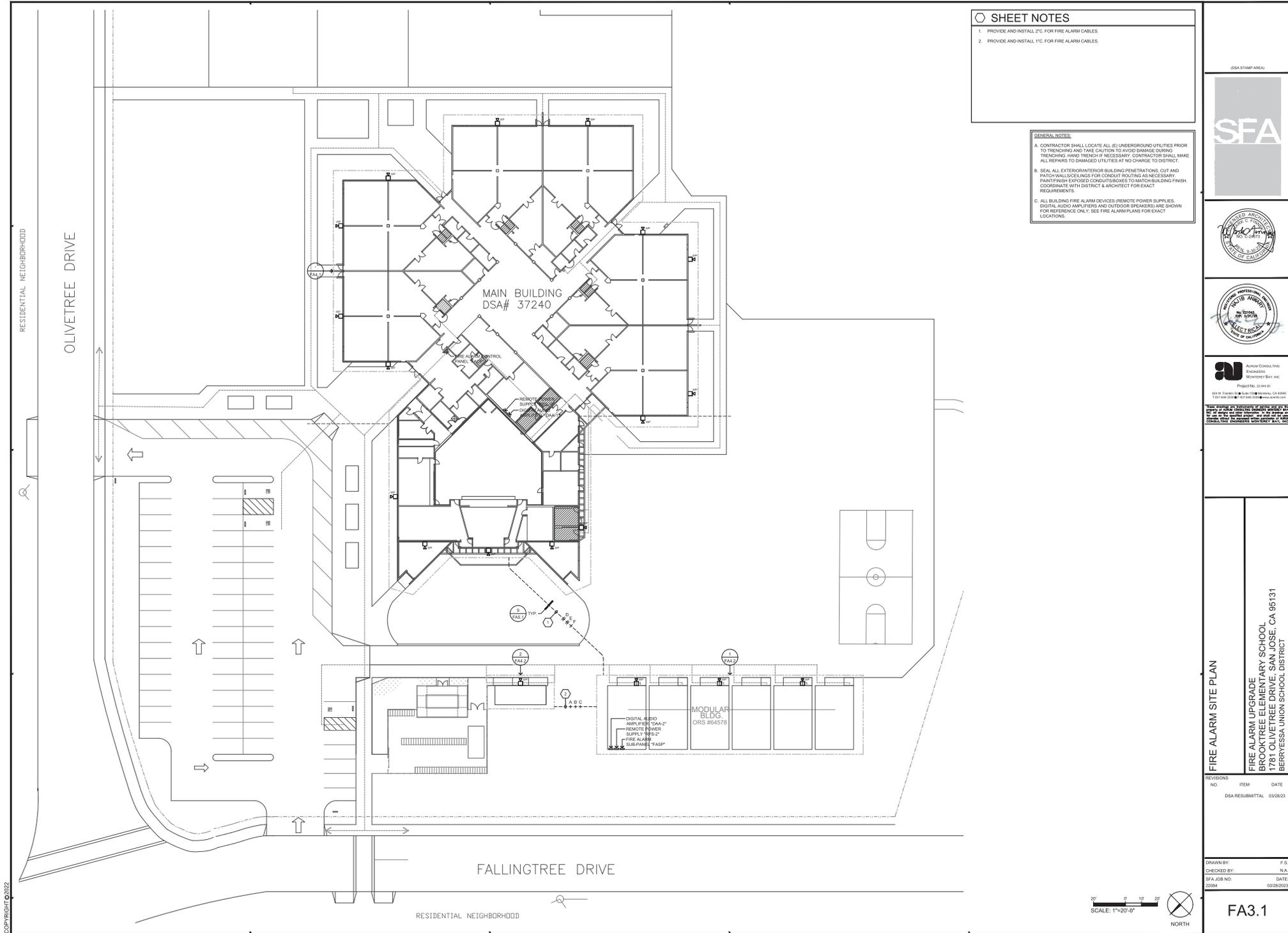
CHECKED BY: N.A.

SFA JOB NO: 22084 DATE: 03/28/2023

FA.2.1

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**○ SHEET NOTES**

1. PROVIDE AND INSTALL 2" FC FOR FIRE ALARM CABLES.
2. PROVIDE AND INSTALL 1" FC FOR FIRE ALARM CABLES.

**GENERAL NOTES:**

A. CONTRACTOR SHALL LOCATE ALL (E) 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 DISTRICT.

B. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALL/CeilINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.

C. ALL BUILDING FIRE ALARM DEVICES (REMOTE POWER SUPPLIES, DIGITAL AUDIO AMPLIFIERS AND OUTDOOR SPEAKERS) ARE SHOWN FOR REFERENCE ONLY. SEE FIRE ALARM PLAN FOR EXACT LOCATIONS.

(DSA STAMP AREA)

**SFA**

REGISTERED ARCHITECT  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA  
ELECTRICAL

**AW** CONSULTING ENGINEERS  
ARCHITECTS  
PLANNERS  
PROJECT NO. 22084  
405 W. FRENCH ST. • SUITE 108 BERRYESSA, CA 95131  
TEL: 408.227.2700 • FAX: 408.227.2701 • WWW.AWCONSULTING.COM

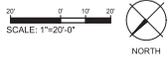
**FIRE ALARM SITE PLAN**

FIRE ALARM UPGRADE  
BROOKTREE ELEMENTARY SCHOOL  
1781 OLIVETREE DRIVE, SAN JOSE, CA 95131  
BERRYESSA UNION SCHOOL DISTRICT

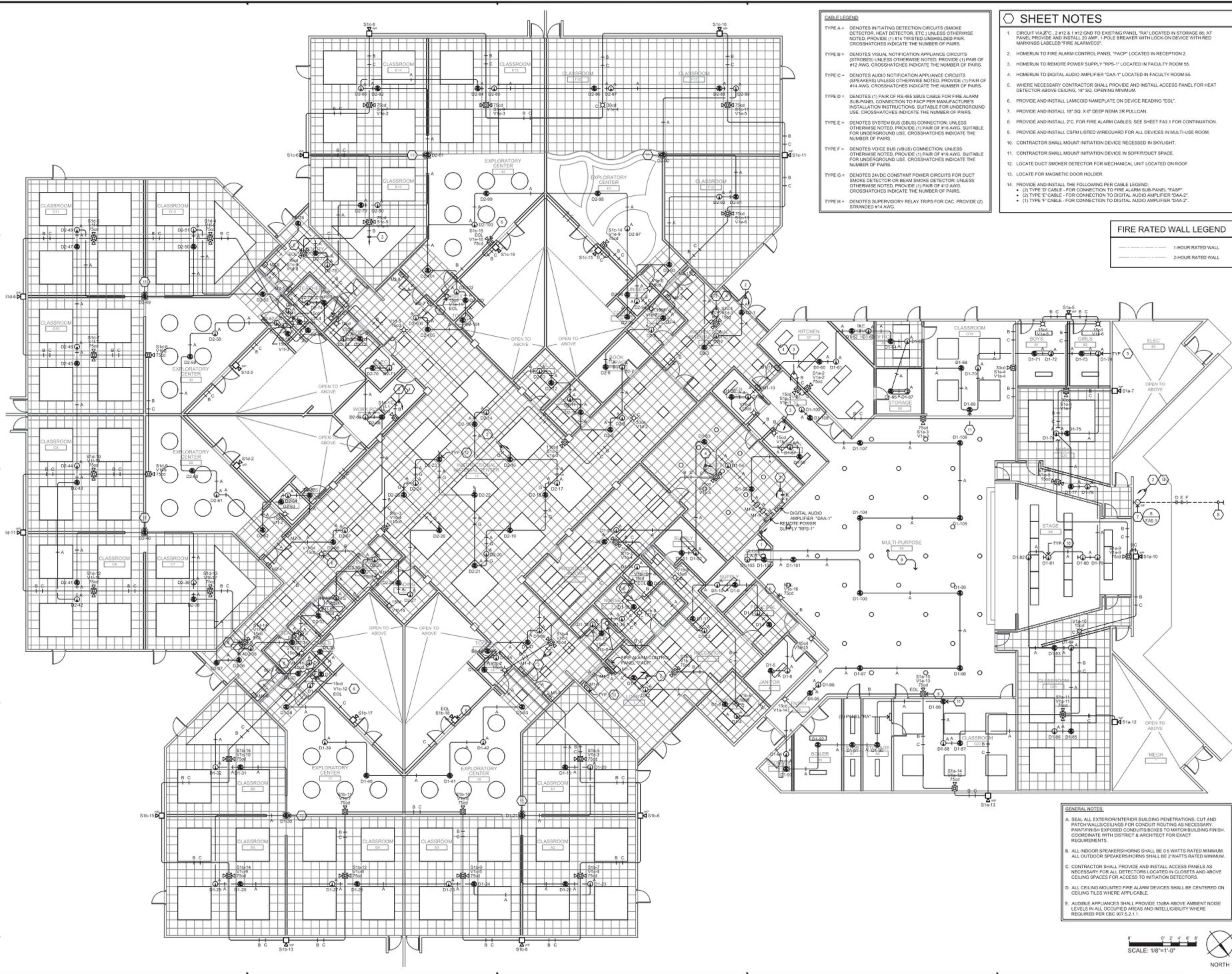
REVISIONS NO.	ITEM	DATE
1	DSA RESUBMITTAL	03/28/23

DRAWN BY: F.S.  
CHECKED BY: N.A.  
SFA JOB NO: 22084 DATE: 03/28/2023

**FA3.1**



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- 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 B DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE C DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE D DENOTES (1) PAIR OF #16-BUS BUSB CABLE FOR FIRE ALARM SUB-PANEL CONNECTION TO ROP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE E DENOTES SYSTEM BUS (SBS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE F DENOTES VOICE BUS (VBS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE G 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 H DENOTES SUPERVISORY RELAY (SR) FOR CAC. PROVIDE (2) STRANDED #14 AWG.

- SHEET NOTES**
1. CIRCUIT 10A/2C, 2 #12 & #12 GND TO EXISTING PANEL 10A LOCATED IN STORAGE 96 AT PANEL. PROVIDE AND INSTALL 25 AMP, FPOLE BREAKER WITH LOCK ON DEVICE WITH RED MARKINGS LABELED "FIRE ALARMS".
  2. HOMERUN TO FIRE ALARM CONTROL PANEL "FACP" LOCATED IN RECEPTION 2.
  3. HOMERUN TO REMOTE POWER SUPPLY "RPS-1" LOCATED IN FACULTY ROOM 55.
  4. HOMERUN TO DIGITAL AUDIO AMPLIFIER "DAA-1" LOCATED IN FACULTY ROOM 55.
  5. WHERE NECESSARY CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANEL FOR HEAT DETECTOR ABOVE CEILING, 18" SQ. OPENING MINIMUM.
  6. PROVIDE AND INSTALL LAMCINO NAMEPLATE ON DEVICE READING "EOL".
  7. PROVIDE AND INSTALL 18" SQ. X 6" DEEP NEMA 3R PULLCAN.
  8. PROVIDE AND INSTALL 2" FC FOR FIRE ALARM CABLES. SEE SHEET FA3.1 FOR CONTINUATION.
  9. PROVIDE AND INSTALL CSP LISTED WIREGUARD FOR ALL DEVICES IN MULTI-USE ROOM.
  10. CONTRACTOR SHALL MOUNT INITIATION DEVICE RECESSED IN SKYLIGHT.
  11. CONTRACTOR SHALL MOUNT INITIATION DEVICE IN SOFFIT/DUCT SPACE.
  12. LOCATE DUCT SMOKE DETECTOR FOR MECHANICAL UNIT LOCATED ON ROOF.
  13. LOCATE FOR MAGNETIC DOOR HOLDER.
  14. PROVIDE AND INSTALL THE FOLLOWING PER CABLE LEGEND:
    - (1) TYPE "A" CABLE - FOR CONNECTION TO EXISTING ALARM SUB-PANEL "ASP"
    - (2) TYPE "C" CABLE - FOR CONNECTION TO DIGITAL AUDIO AMPLIFIER "DAA-2"
    - (1) TYPE "F" CABLE - FOR CONNECTION TO DIGITAL AUDIO AMPLIFIER "DAA-2"



- GENERAL NOTES:**
- A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/Ceilings FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUIT/SIZES TO MATCH BUILDING FINISH COORDINATE WITH DISTRICT ARCHITECT FOR EXACT REQUIREMENTS.
  - B. ALL INDOOR SPEAKERS/STROBES SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/STROBES SHALL BE 2 WATTS RATED MINIMUM.
  - C. CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.
  - D. ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.
  - E. AUDIBLE APPLIANCES SHALL PROVIDE 15DBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER IRC 917.2.1.1.



(SEA STAMP AREA)

**SFA**

Structural Fire Alarm  
Engineering

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Tel: 415.863.1234 Fax: 415.863.1235  
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**FIRE ALARM PLAN - MAIN BUILDING**

**FIRE ALARM UPGRADE  
BROOKTREE ELEMENTARY SCHOOL  
1781 OLIVETREE DRIVE, SAN JOSE, CA 95131  
BERRYESSA UNION SCHOOL DISTRICT**

REVISIONS	NO.	ITEM	DATE
	DSR	RESUBMITTAL	03/28/23

DRAWN BY: F.S.  
CHECKED BY: N.A.  
SFA JOB NO: 2284 DATE: 03/28/2023

**FA4.1**

**GENERAL NOTES:**

A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILING 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/HORN SHALL BE 5.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORN SHALL BE 5 WATTS RATED MINIMUM.

C. CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.

D. ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.

E. AUDIBLE APPLIANCES SHALL PROVIDE 15DBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.1.

**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 B + DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C + DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE D + DENOTES (1) PAIR OF RS-485 SBUS CABLE FOR FIRE ALARM SUB-PANEL CONNECTION TO ROP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE E + DENOTES SYSTEM BUS (SBUS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG, SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE F + DENOTES VOICE BUS (VBUS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG, SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE G + 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 H + DENOTES SUPERVISORY RELAY TRIPS FOR CAC. PROVIDE (2) STRANDED #14 AWG.

- SHEET NOTES**
- CIRCUIT VIA 2" x 2" #12 & #12 ON TO EXISTING PANEL LOCATED IN SAME PORTABLE BUILDING. AT PANEL, PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKER WITH LOCK ON DEVICE WITH RED MARKINGS LABELED "FIRE ALARMS".
  - CONTRACTOR SHALL MOUNT DEVICE IN ACCESSIBLE CEILING SPACE ABOVE.
  - PROVIDE AND INSTALL LAMCDD NAMEPLATE ON DEVICE READING "EOL".
  - PROVIDE AND INSTALL 1" SQ. X 4" DEEP NEMA 3R PULLCAN.
  - SEE SHEET FA-1 FOR CONTINUATION.
  - PROVIDE AND INSTALL 12 SQ. X 4" DEEP NEMA 3R PULLCAN.
  - PROVIDE AND INSTALL 1" FC FOR FIRE ALARM CABLES.
  - SEE 2FA-2 FOR CONTINUATION.
  - SEE 1FA-2 FOR CONTINUATION.

(ISA STAMP AREA)

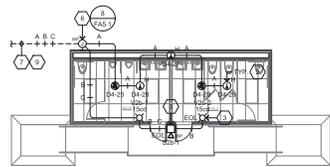



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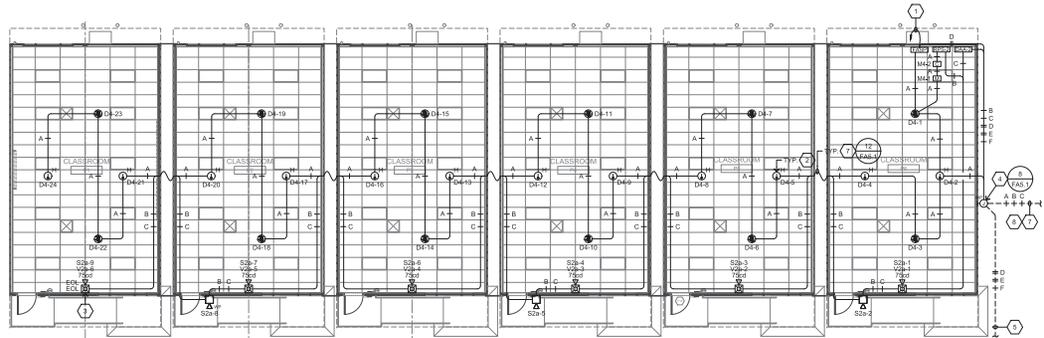
ANAL CONSULTING ENGINEERS  
Montebey Bay, CA  
Project No. 220441

404 W. Franklin St. • Suite 108 • Berkeley, CA 94609  
Tel: 415.846.1330 • Fax: 415.846.1336 • www.sfa.com

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**2 FIRE ALARM PLAN - RESTROOMS**  
SCALE: 1/8"=1'-0"  
NORTH



**1 FIRE ALARM PLAN - PORTABLES P1 - P6**  
SCALE: 1/8"=1'-0"  
NORTH

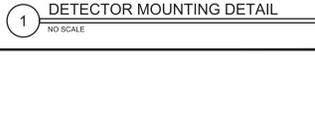
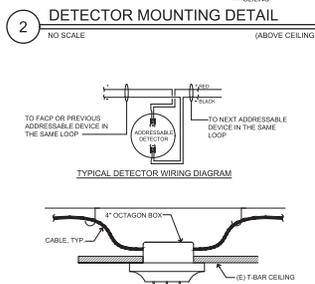
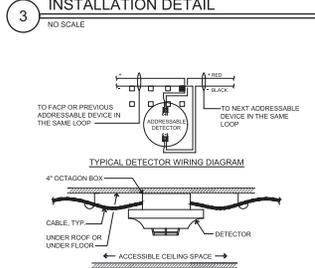
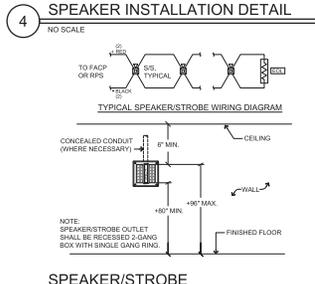
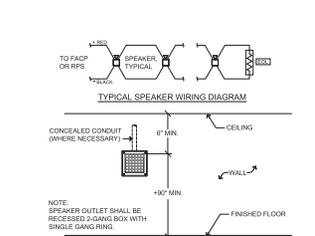
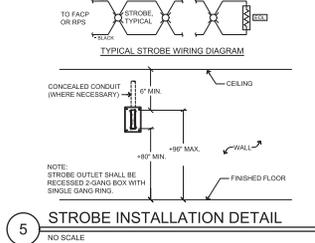
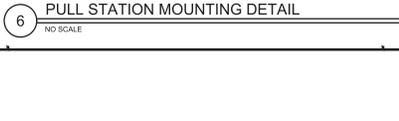
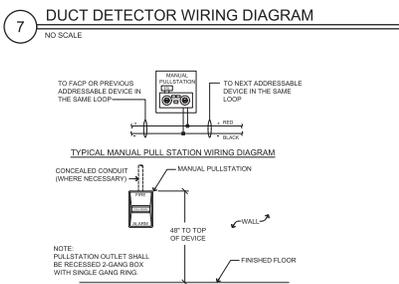
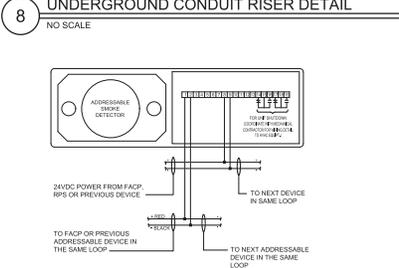
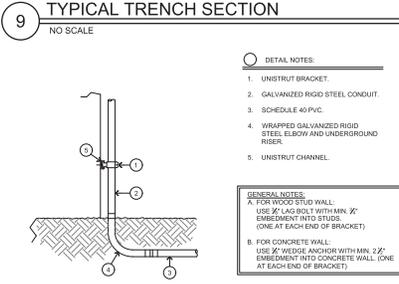
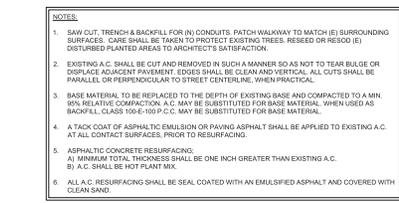
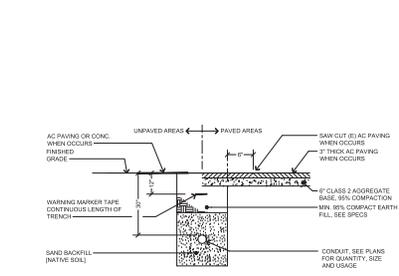
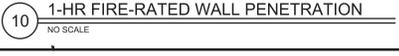
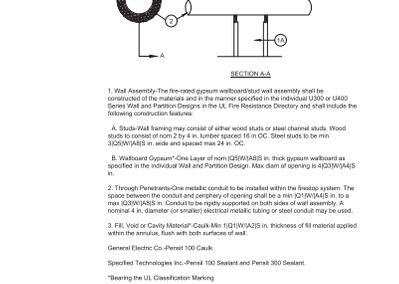
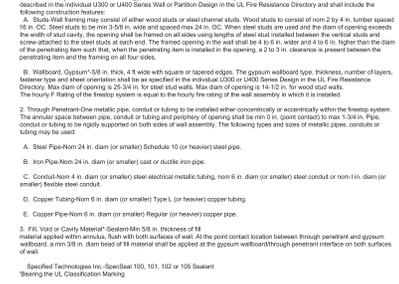
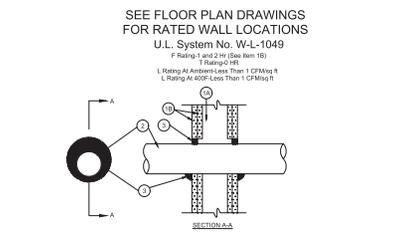
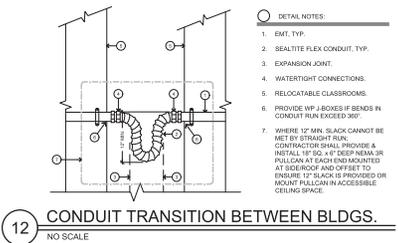
**FIRE ALARM PLAN - PORTABLES & RESTROOMS**

**FIRE ALARM UPGRADE**  
BROOKTREE ELEMENTARY SCHOOL  
1781 OLIVETREE DRIVE, SAN JOSE, CA 95131  
BERRYESSA UNION SCHOOL DISTRICT

REVISION NO.	ITEM	DATE
DSR RESUBMITTAL		03/28/23

DRAWN BY: F.S.  
CHECKED BY: N.A.  
SFA JOB NO: 22044 DATE: 03/28/2023

**FA4.2**



(ISA STAMP AREA)



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Professional Engineer  
 SFA  
 License No. 47279  
 State of California

REVISIONS

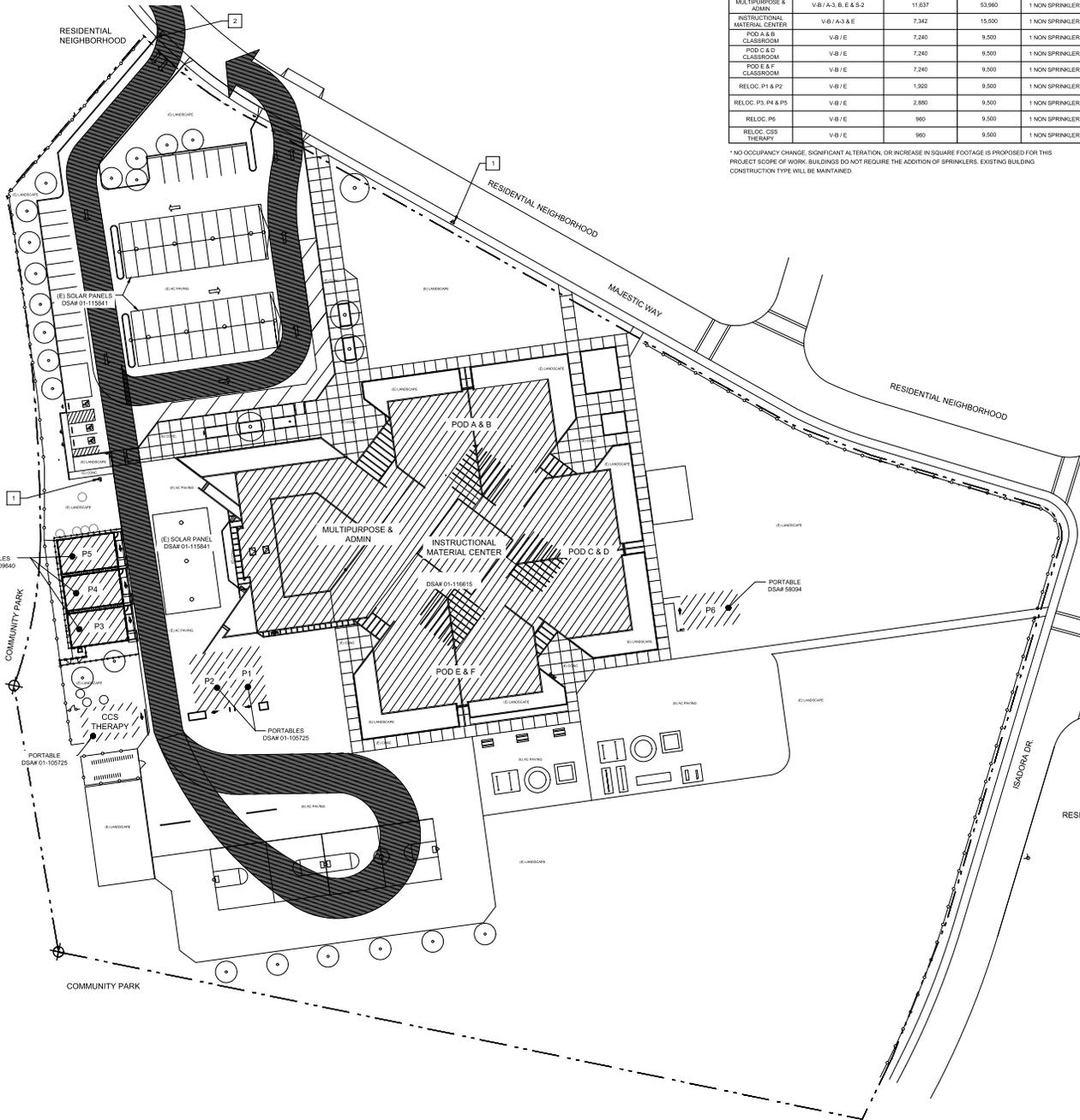
NO.	ITEM	DATE
DSR	RESUBMITTAL	03/28/23

FIRE ALARM DETAILS  
 FIRE ALARM UPGRADE  
 BROOKTREE ELEMENTARY SCHOOL  
 1781 OLIVETREE DRIVE, SAN JOSE, CA 95131  
 BERRYESSA UNION SCHOOL DISTRICT

DRAWN BY: F.S.  
 CHECKED BY: N.A.  
 SFA JOB NO.: DATE  
 2204 03/28/2023

FA5.1





**\* BUILDING CODE ANALYSIS**

BUILDING	CONSTRUCTION TYPE OCCUPANCY TYPE	AREA (SQ.FT.)	ALLOWABLE (SQ.FT.)	# OF STORES
MULTIPURPOSE & ADMIN	V-B / A-3, B, E & S-2	11,637	53,960	1 NON SPRINKLER
INSTRUCTIONAL MATERIAL CENTER	V-B / A-3 & E	7,342	15,500	1 NON SPRINKLER
POD A & B CLASSROOM	V-B / E	7,240	9,500	1 NON SPRINKLER
POD C & D CLASSROOM	V-B / E	7,240	9,500	1 NON SPRINKLER
POD E & F CLASSROOM	V-B / E	7,240	9,500	1 NON SPRINKLER
RELOC. P1 & P2	V-B / E	1,920	9,500	1 NON SPRINKLER
RELOC. P3, P4 & P5	V-B / E	2,890	9,500	1 NON SPRINKLER
RELOC. P6	V-B / E	950	9,500	1 NON SPRINKLER
RELOC. CCS THERAPY	V-B / E	950	9,500	1 NON SPRINKLER

\* NO OCCUPANCY CHANGE, SIGNIFICANT ALTERATION, OR INCREASE IN SQUARE FOOTAGE IS PROPOSED FOR THIS PROJECT SCOPE OF WORK. BUILDINGS DO NOT REQUIRE THE ADDITION OF SPRINKLERS. EXISTING BUILDING CONSTRUCTION TYPE WILL BE MAINTAINED.

**PROJECT SUMMARY**  
CAMPUS WIDE FIRE ALARM SYSTEM REPLACEMENT.

**GENERAL NOTES**  
A. THIS SHEET IS FOR FIRE LIFE SAFETY CODE RELATED ITEMS.  
B. REFER TO FIRE ALARM DRAWINGS FOR EXTENT OF OTHER RELATED WORK.

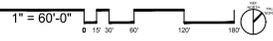
**SITE PLAN - FIRE LIFE SAFETY NOTES**

- 1. EXISTING FIRE HYDRANT.
- 2. (E) FIRE DEPARTMENT KNOX BOX.

**GRAPHIC KEY**

- - - - - EXISTING PROPERTY LINE
- - - - - ROOF OVERHANG
- - - - - CHAIN LINK FENCE
- - - - - DECORATIVE FENCE
- ▨ EXISTING BUILDING
- █ (E) FIRE DEPARTMENT ACCESS
- ⊕ (E) FIRE HYDRANT
- ⊙ (E) SIGN

**1 SITE PLAN - FIRE LIFE SAFETY**



**SITE PLAN  
FIRE LIFE SAFETY**

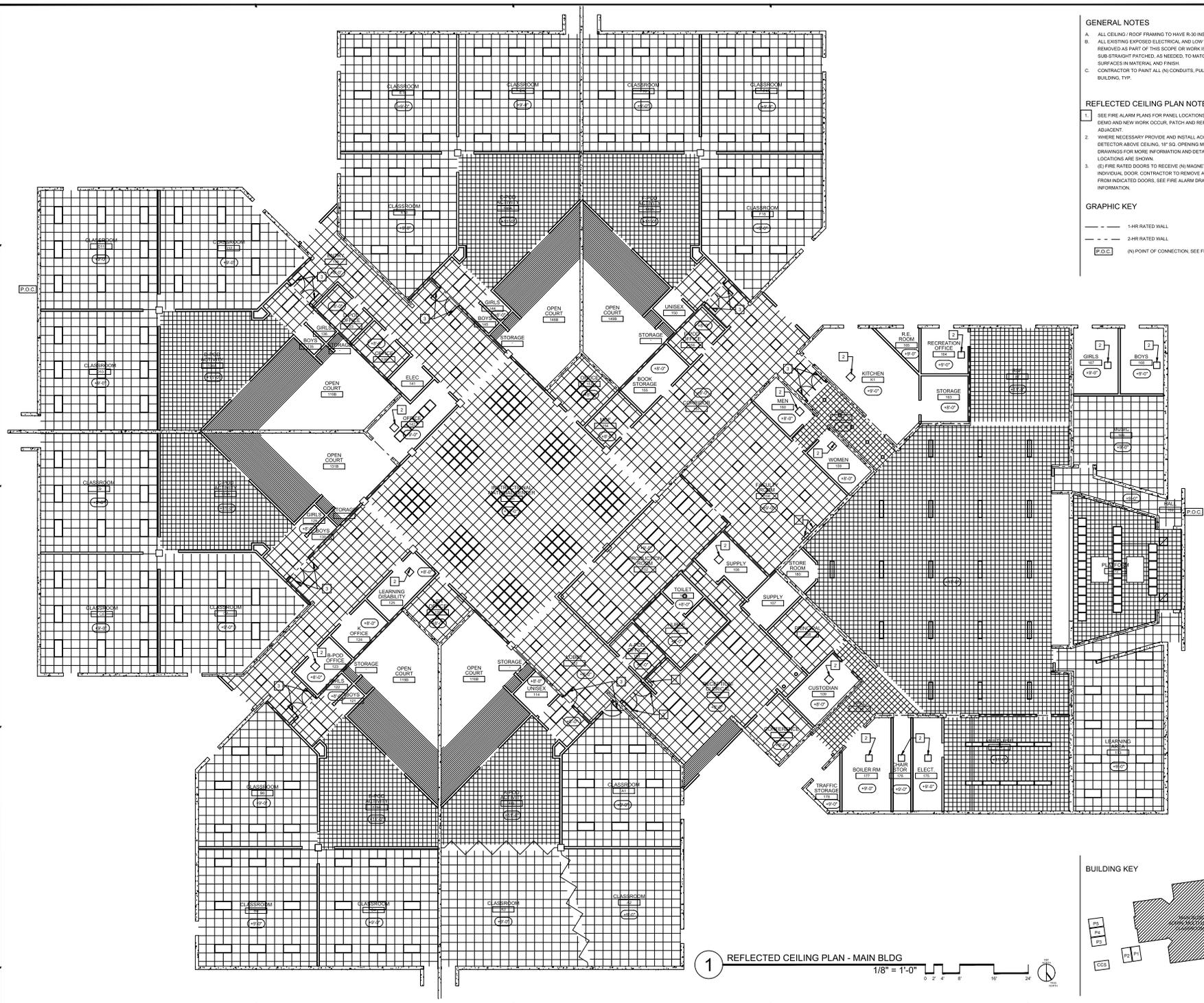
FIRE ALARM SYSTEM UPGRADE  
MAJESTIC WAY ELEMENTARY SCHOOL  
1855 MAJESTIC WAY, SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

DRAWN BY: **RLN**  
CHECKED BY: **M.B.**  
SFA JOB NO.: **2281** DATE: **04/03/2023**



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**GENERAL NOTES**

- ALL CEILING / ROOF FRAMING TO HAVE R-30 INSULATION
- ALL EXISTING EXPOSED ELECTRICAL AND LOW VOLT WIRE ROUTING REMOVED AS PART OF THIS SCOPE OR WORK IS TO HAVE THE SUB STRAIGHT PATCHED, AS NEEDED, TO MATCH EXISTING ADJACENT SURFACES IN MATERIAL AND FINISH.
- CONTRACTOR TO PAINT ALL (N) CONDUITS, PULL CANS, ETC. TO MATCH BUILDING, TYP.

**REFLECTED CEILING PLAN NOTES**

- SEE FIRE ALARM PLANS FOR PANEL LOCATIONS AND TYPES. WHERE DEMO AND NEW WORK OCCUR, PATCH AND REPAIR TO MATCH EXISTING ADJACENT.
- WHERE NECESSARY PROVIDE AND INSTALL ACCESS PANEL FOR HEAT DETECTOR ABOVE CEILING, 10" SQ. OPENING MIN. TYP. SEE FIRE ALARM DRAWINGS FOR MORE INFORMATION AND DETAIL TAB 1. NOT ALL LOCATIONS ARE SHOWN.
- (E) FIRE RATED DOORS TO RECEIVE (N) MAGNETIC DOOR HOLDER PER EA. INDIVIDUAL DOOR. CONTRACTOR TO REMOVE ANY MANUAL DOOR STOPS FROM INDICATED DOORS. SEE FIRE ALARM DRAWINGS FOR MORE INFORMATION.

**GRAPHIC KEY**

- 1-HR RATED WALL
- 2-HR RATED WALL
- (N) POINT OF CONNECTION. SEE FIRE ALARM DRAWINGS



REFLECTED CEILING PLAN - MAIN BUILDING

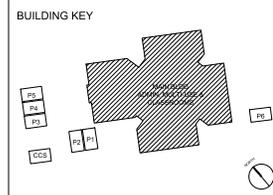
FIRE ALARM SYSTEM UPGRADE  
 MAJESTIC WAY ELEMENTARY SCHOOL  
 1855 MAJESTIC WAY, SAN JOSE, CA 95132  
 BERRYESSA UNION SCHOOL DISTRICT

REVISION NO.	ITEM	DATE

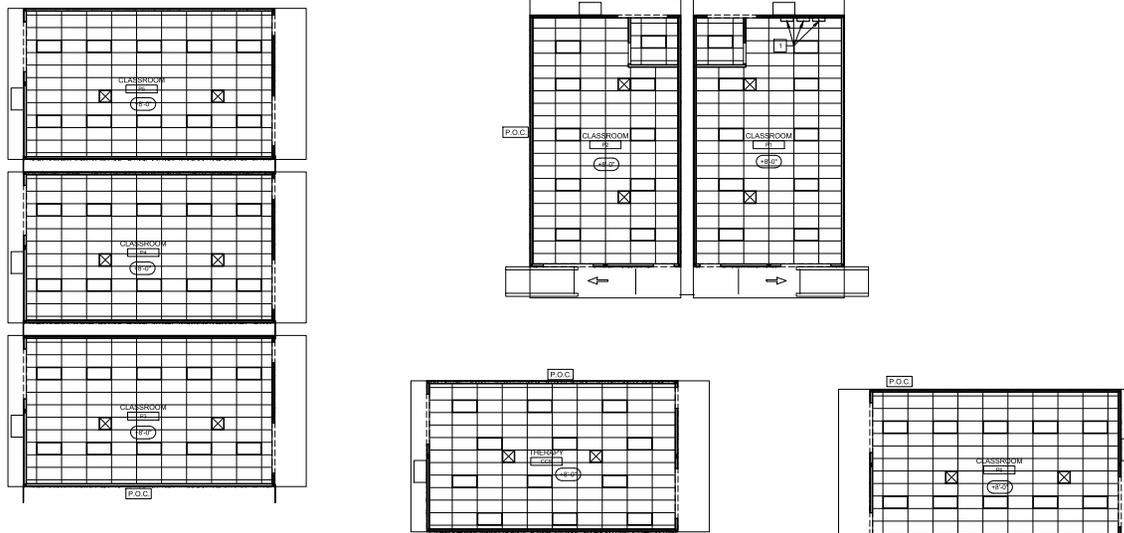
DRAWN BY: [ ]  
 CHECKED BY: [ ]  
 SFA JOB NO: 22081  
 DATE: 04/03/2023

A3.1

1 REFLECTED CEILING PLAN - MAIN BLDG  
 1/8" = 1'-0"



1 REFLECTED CEILING PLANS - PORTABLES



1/8" = 1'-0"



GENERAL NOTES

- A. ALL CEILING ROOF FRAMING TO HAVE R-30 INSULATION.
- B. ALL EXISTING EXPOSED ELECTRICAL AND LOW VOLTAGE ROUTING REMOVED AS PART OF THIS SCOPE OR WORK IS TO HAVE THE SUB-STRAIGHT PATCHED, AS NEEDED, TO MATCH EXISTING ADJACENT SURFACES IN MATERIAL AND FINISH.
- C. CONTRACTOR TO PAINT ALL IN, CONDUITS, PULL CANS, ETC. TO MATCH BUILDING, TYP.

REFLECTED CEILING PLAN NOTES

- 1. SEE FIRE ALARM PLANS FOR PANEL LOCATIONS AND TYPES. WHERE DEMO AND NEW WORK OCCUR, PATCH AND REPAIR TO MATCH EXISTING ADJACENT.

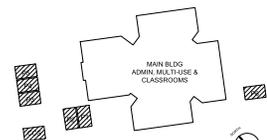
GRAPHIC KEY

P.O.C. (N) POINT OF CONNECTION, SEE FIRE ALARM DRAWINGS

MECHANICAL  
X (E) SUPPLY DIFFUSER

ELECTRICAL  
O (E) Z X # LIGHT FIXTURE

BUILDING KEY

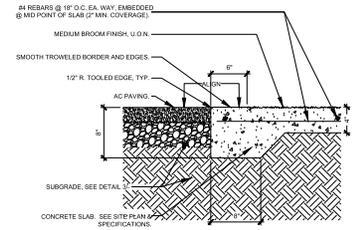


REFLECTED CEILING PLANS - PORTABLES

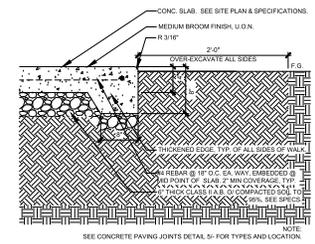
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DRAWN BY:                      RNL  
 CHECKED BY:                      M.B.  
 SFA JOB NO: 22081 DATE: 06/03/2023

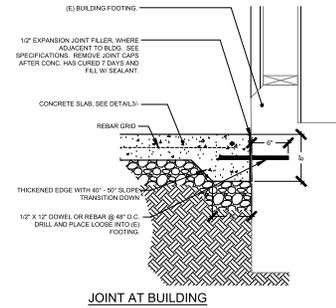
FIRE ALARM SYSTEM UPGRADE  
 MAJESTIC WAY ELEMENTARY SCHOOL  
 1855 MAJESTIC WAY, SAN JOSE, CA 95132  
 BERRYESSA UNION SCHOOL DISTRICT



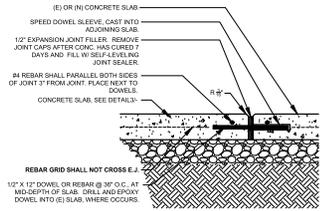
4 ASPHALT / CONCRETE JOINT  
1-1/2"=1'-0"



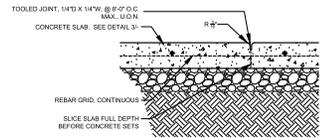
3 EDGE OF CONC. PAVING  
1-1/2"=1'-0"



JOINT AT BUILDING

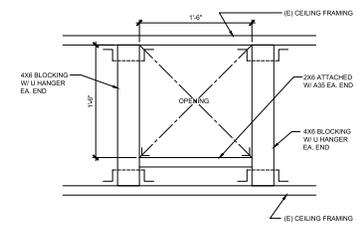


EXPANSION JOINT

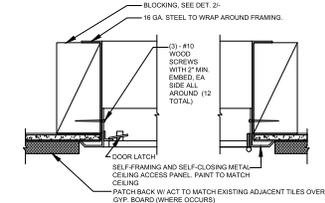


TOOLED JOINT

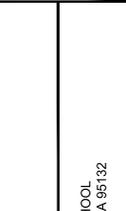
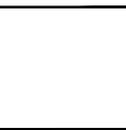
5 CONCRETE PAVING JOINTS  
1-1/2"=1'-0"



2 NEW OPENING AT CEILING FOR ACCESS PANEL  
1-1/2"=1'-0"



1 CEILING ACCESS PANEL @ HARD LID CEILING  
3"=1'-0"



TYPICAL DETAILS

FIRE ALARM SYSTEM UPGRADE  
MAJESTIC WAY ELEMENTARY SCHOOL  
1855 MAJESTIC WAY, SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

DRAWN BY: RWL  
CHECKED BY: M.B.  
SFA JOB NO.: 22881 DATE: 04/03/2023

FIRE ALARM EQUIPMENT LIST			
SYMBOL	DESCRIPTION AND MODEL NUMBER	MFQ'S PART No.	Q'S/M LISTING
[Symbol]	ADDRESSABLE FIRE ALARM CONTROL PANEL AND EMERGENCY MASS NOTIFICATION SYSTEM, SILENT KNIGHT 6000 SERIES (SEE BATTERY CALC FOR SIZE OF BATTERIES REQUIRED)	600EVS	7165-0509-0000
[Symbol]	FIRE ALARM CELLULAR COMMUNICATOR IN A METAL CABINET ENCLOSED WITH LOCK AND KEY, SILENT KNIGHT CELL-CAB-SK SERIES	CELL-CAB-SK	7165-0509-0000
[Symbol]	FIRE ALARM LOCAL OPERATOR CONSOLE WITH 160 CHARACTER LIQUID CRYSTAL DISPLAY REMOTE MANIPULATOR AND ON-SOURCE SUPER MICROPHONE, SILENT KNIGHT EVS-LOC SERIES	EVS-LOC	7165-0509-0000
[Symbol]	FIRE ALARM DOCUMENTS CABINET TO STORE PRINTED AND DIGITAL DOCUMENTS, LOCATE NEXT TO FACP.	NF-FAD	7300-0503-0110
[Symbol]	POWER MODULE SUPPLY, SILENT KNIGHT 1565A SERIES	1565A	7165-0509-0130
[Symbol]	INTELLIGENT 50 WATT AMPLIFIER, SILENT KNIGHT EVS-50W SERIES	EVS-50W	7165-0509-0172
[Symbol]	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR AND BASE, SILENT KNIGHT SK-PHOTO-W SERIES	SK-PHOTO-W 8004H	7272-0509-0212 7300-1653-0100
[Symbol]	ADDRESSABLE FIRE ALARM HEAT DETECTOR AND BASE, 130° F/300 TEMPERATURE, SILENT KNIGHT SK-HEAT-W SERIES (DEVICES WITH "A" INDICATE ABOVE CEILING)	SK-HEAT-W 83004	7272-0509-0211 7300-1653-0100
[Symbol]	ADDRESSABLE FIRE ALARM HIGH TEMPERATURE HEAT DETECTOR AND BASE, 160° F/300 TEMPERATURE, SILENT KNIGHT SK-HEAT-H SERIES	SK-HEAT-H 83004	7272-0509-0211 7300-1653-0100
[Symbol]	ADDRESSABLE DUCT SMOKE DETECTOR (ROUND) WITH REMOTE TEST SWITCH, PROVIDE ADDRESSABLE SMOKE DETECTOR AND RELAY MODULE WITH HOUSING, SILENT KNIGHT SK-DUCT SERIES	SK-DUCT-W	3242-0509-0018
[Symbol]	ADDRESSABLE FIRE ALARM MANUAL PULLSTATION, DUAL ACTION WITH KEY RESET, MODULE FOR CARBONATE HOUSING, SILENT KNIGHT SK-PULL SERIES	SK-PULL-DA	7150-0509-0161
[Symbol]	ADDRESSABLE MONITOR MODULE, SILENT KNIGHT SK-MONITOR SERIES	SK-MONITOR	7300-0509-0150
[Symbol]	ADDRESSABLE CONTROL MODULE, SILENT KNIGHT SK-CONTROL SERIES	SK-CONTROL	7300-0509-0150
[Symbol]	ADDRESSABLE RELAY MODULE, SILENT KNIGHT SK-RELAY SERIES	SK-RELAY	7300-0509-0150
[Symbol]	WALL MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 100/10/1/0.6 SYSTEM SENSOR, SRS SERIES	SRL	7125-1653-0004
[Symbol]	CEILING MOUNTED MULTI-CANDELA STROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 100/10/1/0.6 SYSTEM SENSOR, SRS SERIES	SCRL	7125-1653-0004
[Symbol]	WALL MOUNTED MULTI-CANDELA SPEAKERSTROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 100/10/1/0.6 SYSTEM SENSOR, SRS SERIES	SPSRL	7320-1653-0000
[Symbol]	CEILING MOUNTED MULTI-CANDELA SPEAKERSTROBE WITH FIELD SELECTABLE CANDELA SETTINGS OF 100/10/1/0.6 SYSTEM SENSOR, SRS SERIES	SPCRL	7320-1653-0000
[Symbol]	WALL MOUNTED WEATHERPROOF SPEAKER, SYSTEM SENSOR SPECTRAFLORT ADVANCE SERIES	SPRK	7320-1653-0001
[Symbol]	END OF LINE DEVICE		

### FIRE ALARM GENERAL NOTES

- WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24CFC, ARTICLE 760.
- WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-130.4, 124CFC (I.E. THW OR EQUAL).
- UNDER GROUND AND EXTERIOR CONDUITS TO HAVE WATERPROOF FITTINGS AND WIRING APPROVED FOR WET LOCATION.
- ALL CONDUIT SHALL BE ROUTED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- THE CONDUIT AND WIRE SHOWN ON THESE PLANS ARE SHOWN FOR DIAGNOSTIC PURPOSES ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE PROVIDED AS EXISTING TO THE PROJECT INSPECTOR OF RECORD.
- PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF THROUGH PENETRATIONS FIRE STOP SYSTEMS FOR ALL FIRE RATED WALLS THROUGH WHICH CONDUITS OR WIRING ARE PASSED.
- ALL DEVICES SHALL BE "CSFM" LISTED.
- EXTERIOR FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 150BA ABOVE THE AVERAGE SOUND LEVEL.
- ADDITIONAL FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 150BA ABOVE THE AVERAGE SOUND LEVEL.
- ADDITIONAL SIGNALS INTENDED FOR OPERATION IN THE PUBLIC SHALL HAVE A SOUND LEVEL OF NOT LESS THAN 105BA AT 10 FEET OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCES FROM THE AUDIBLE APPLIANCE.
- WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED 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 SIGNAL IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE.
- 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.
- FINAL ALARM TEST SHALL BE WITNESSED BY THE DSA INSPECTOR OF RECORD. BOTH THE DSA INSPECTOR OF RECORD (BOR) AND THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING BY THE FIRE ALARM CONTRACTOR. THE CONTRACTOR SHALL PROVIDE "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD CONSIDER AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.
- POWER SERVICE SHALL BE ON A DEDICATED, 120V BRANCH CIRCUIT WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
- 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 2017 CHAPTER 88. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFSP OR USFSP BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 2011.
- EXISTING FIELD DEVICES AND FACP SHALL REMAIN IN PLACE UNTIL NEW FIELD DEVICES ARE IN PLACE AND NEW WIRING HAS BEEN INSTALLED IN 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.

### GENERAL CONSTRUCTION NOTES

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS, MATERIALS AND EQUIPMENT SHALL BE LISTED AND LABELED FOR THE APPLICATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
- CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE NECESSARY COVERAGE AND PROTECTION FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL CLAIMS RESULTING FROM THIS WORK. PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- 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.
- ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIR" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECT'S PAINTING SECTION FOR REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CALKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDINGS UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE A MINIMUM TWO (2) #12 WITH ONE (#12) CONDUIT "KICK MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ANY ERRORS REQUIRED FOR A COMPLETE INSTALLATION.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIPLE CIRCUITS IS NOT ALLOWED.
- COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
- CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
- ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE NECESSARY. WHERE IT IS NECESSARY TO CUT OR REMOVE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL WORK OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO STARTING WORK. REUSE EXISTING CONDUIT WHERE POSSIBLE.
- WHERE IT IS NOT POSSIBLE TO REUSE EXISTING CONDUIT OR RUN NEW CONCEALED CONDUIT NON-METALLIC SURFACE RACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR CONVEY REPRESENTATIVE PRIOR TO INSTALLATION.
- EXTENSION RINGS OR RESET BOXES TO BE FLUSH WITH NEW WALL THICKNESS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO EXISTING UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR A PAY ALL EXPENSES FOR DAMAGE TO EXISTING UNDERGROUND SYSTEMS AS A RESULT OF NEW WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA CHARGE TO THE OWNER.
- 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.
- 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, BURNED BRACE, HOLLOW WALLS, ETC. IN EACH AREA AND REVIEW WITH ARCHITECT. IF SYSTEM CAN BE ROUTED CONCEALED EITHER BY FINISH OR THROUGH SURFACE MOUNTED ROUGH IN, IN THE MOST ARCHITECTURALLY PLEASING MANNER AS DETERMINED BY THE ARCHITECT. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ARCHITECT WILL BE MADE.
- AUDIBLE APPLIANCES SHALL PROVIDE 150BA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.1.

### SYMBOLS & ABBREVIATIONS

**SYMBOLS**

[Symbol]	MANUAL PULL STATION	[Symbol]	BELL (GONG)
[Symbol]	STROBE ONLY (CEILING MOUNTED)	[Symbol]	FIRE ALARM CONTROL PANEL
[Symbol]	STROBE ONLY (CEILING MOUNTED)	[Symbol]	REMOTE POWER SUPPLY
[Symbol]	SPEAKER ONLY	[Symbol]	DIGITAL AUDIO AMPLIFIER
[Symbol]	MM HORN	[Symbol]	END OF LINE
[Symbol]	SPEAKERSTROBE (CEILING MOUNTED)	[Symbol]	CONDUIT - HOME RUN TO PANEL TERMINAL CABINET, ETC. AS INDICATED BY NUMBER OF #12 AND WIRES WITH MORE THAN TWO. SEE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.
[Symbol]	CHIME/STROBE	[Symbol]	HEAT DETECTOR (ABOVE ACCESSIBLE CEILING)
[Symbol]	HEAT DETECTOR	[Symbol]	SMOKE DETECTOR (ABOVE ACCESSIBLE CEILING)
[Symbol]	SMOKE DETECTOR	[Symbol]	DUCT SMOKE DETECTOR
[Symbol]	TAMPER SWITCH	[Symbol]	CONDUIT CONTINUATION
[Symbol]	FLOW SWITCH	[Symbol]	SHEET NOTE REFERENCE SYMBOL, SEE ASSOCIATED NOTE ON SAME SHEET
[Symbol]	POST INDICATING VALVE	[Symbol]	DETAIL OR SECTION DESIGNATION

**ABBREVIATIONS**

ARCH	ARCHITECT	FSD	FIRE SMOKE DAMPER
AWG	AMERICAN WIRE GAUGE	IGC	INITIATING DEVICE CIRCUIT
BKR	BREAKER	NAC	NOTIFICATION APPLIANCE CIRCUITS
C	CIRCUIT ONLY	NC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NR	NUMBER
CKT	CIRCUIT	NSC	NOT IN CONTRACT
CLG	CEILING	SUN	SIGNAL AND LINE CIRCUITS
EOL	END OF LINE	U/C	UNLESS OTHERWISE TYPICAL
FA	FIRE ALARM	WP	WEATHERPROOF
FACP	FIRE ALARM CONTROL PANEL		
FBO	FIRE ALARM CONTROL PANEL		

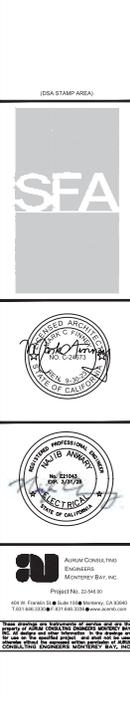
**TYPICAL ZONE NOMENCLATURE**

"S" DENOTES SIGNAL, CIRCUIT #2  
"SC" DENOTES CANDELA RATING

"1" DENOTES DEVICE #4  
"2" DENOTES DEVICE #5

"M" DENOTES MODULE LOCATION, "D" DENOTES DETECTOR LOCATION  
"1" DENOTES LOOP  
"2" DENOTES DEVICE #2

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.



### FIRE ALARM SYSTEM OPERATIONAL MATRIX

CAUSE	EFFECT				REMARKS
	ALARM	TROUBLE	SUPERVISORY	MISC	
SMOKE DETECTORS	●	●	●	●	
HEAT DETECTORS	●	●	●	●	
DUCT SMOKE DETECTORS	●	●	●	●	
MANUAL PULL STATIONS	●	●	●	●	
SIGNAL SILENCE	●	●	●	●	
AC POWER FAILURE	●	●	●	●	
FIRE ALARM TROUBLE OPEN, SHORT, OR GROUNDING ON INITIATION OR SIGNALING CIRCUITS	●	●	●	●	

### SHEET INDEX

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

FA#1 FIRE ALARM RISER DIAGRAM.

FA#2 BATTERY & VOLTAGE DROP CALCULATIONS.

FA#1 FIRE ALARM DEMOLITION PLAN.

FA#1 FIRE ALARM SITE PLAN.

FA#1 FIRE ALARM PLAN - MAIN BUILDING.

FA#2 FIRE ALARM PLAN - PORTABLES.

FA#1 FIRE ALARM DETAILS.

### PROJECT DESCRIPTION

SCOPE OF WORK:  
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 EMPOWER EVACUATION SYSTEM.

NO NEW CARBON MONOXIDE DETECTOR PROVIDED AS BUILDINGS WERE CONSTRUCTED AND/OR APPROVED BEFORE THE ADOPTION OF THE 2016 CALIFORNIA BUILDING STANDARDS CODE.

SYSTEM DESCRIPTION:  
BLC = CLASS B  
NAC = CLASS B

FIRE ALARM SYSTEM DESIGN BY:  
HAUB ANWAY

**FIRE ALARM SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX, DETAILS & NOTES**

REVISIONS: NO. ITEM DATE

DSR/RESUBMITTAL: 03/02/23

FIRE ALARM UPGRADE  
MAJESTIC WAY ELEMENTARY SCHOOL  
1885 MAJESTIC WAY, SAN JOSE, CA 95132  
BERREYSVILLE UNION SCHOOL DISTRICT

### EQUIPMENT ANCHORAGE

**MECH 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 ANCHORAGE SHALL BE ANCHORED OR BRACED TO THE STRUCTURE IN ACCORDANCE WITH REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTION 1617A.1.8 AND ASCE 7-16 CHAPTER 13, 26 & 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS AND WATER. PERMANENTLY ATTACHED SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PULS FOR 120/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ATTACHMENT POINT. THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE PERMANENTLY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED IN THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND THE STRUCTURE. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ALIGNMENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 50 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SHALL BE SUBJECT OF THE APPROVAL OF THE DESIGN PROFESSIONAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

**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 13.1.5 AS REFERRED TO IN 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. WHERE BRACING AND ATTACHMENTS ARE NOT SHOWN ON THE APPROVED INSTALLATION GUIDE (e.g. OSHFC OPM FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE TO THE JOB SITE 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 HANGING AND BRACING OF THE IDENTIFIED DISTRIBUTION SYSTEMS (E):

- OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHFC PRE-APPROVED (OPM #).

### APPLICABLE CODES & STANDARDS

**CODES:**

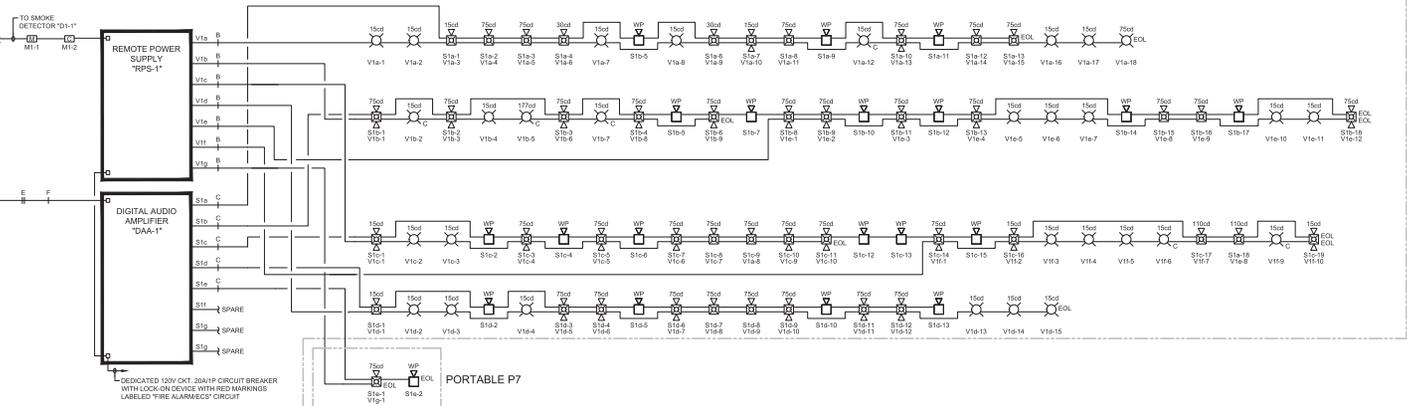
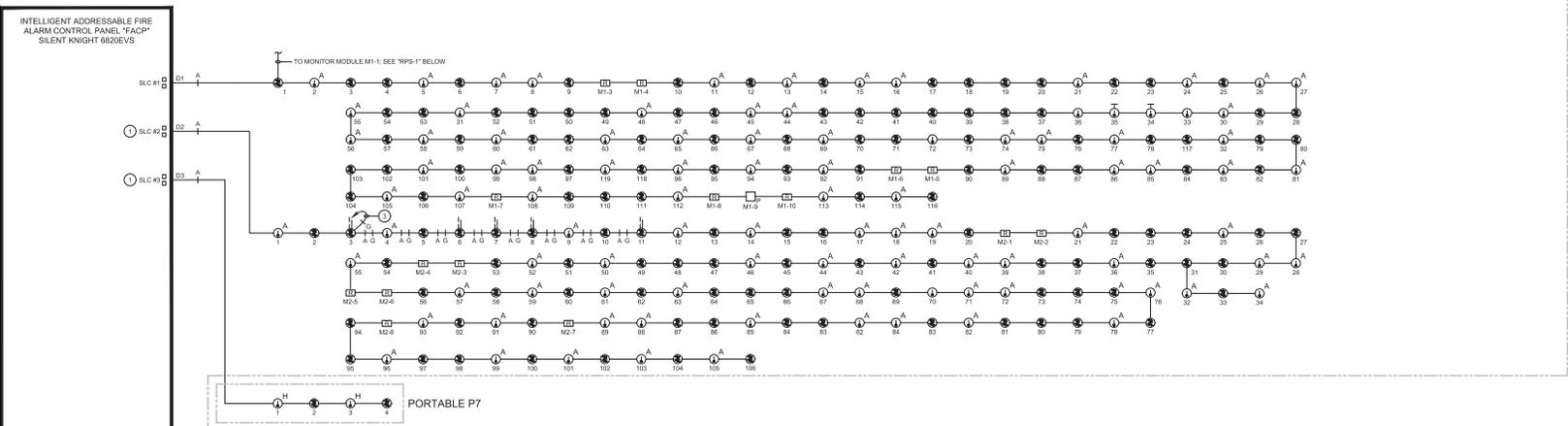
- 2022 CALIFORNIA ADMINISTRATIVE CODE (C.A.C.), PART 1, TITLE 24, C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2021 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
- 2022 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 3 BASED ON THE 2021 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
- 2022 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 3 BASED ON THE 2021 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
- 2022 CALIFORNIA ENERGY CODE (C.E.C.), TITLE 24, PART 6.
- 2022 CALIFORNIA FIRE CODE (FC) C.C.R., TITLE 24, PART 9 BASED ON THE 2021 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- NATIONAL FIRE ALARM CODE (NFPA 72) 2019.

**STANDARDS:**

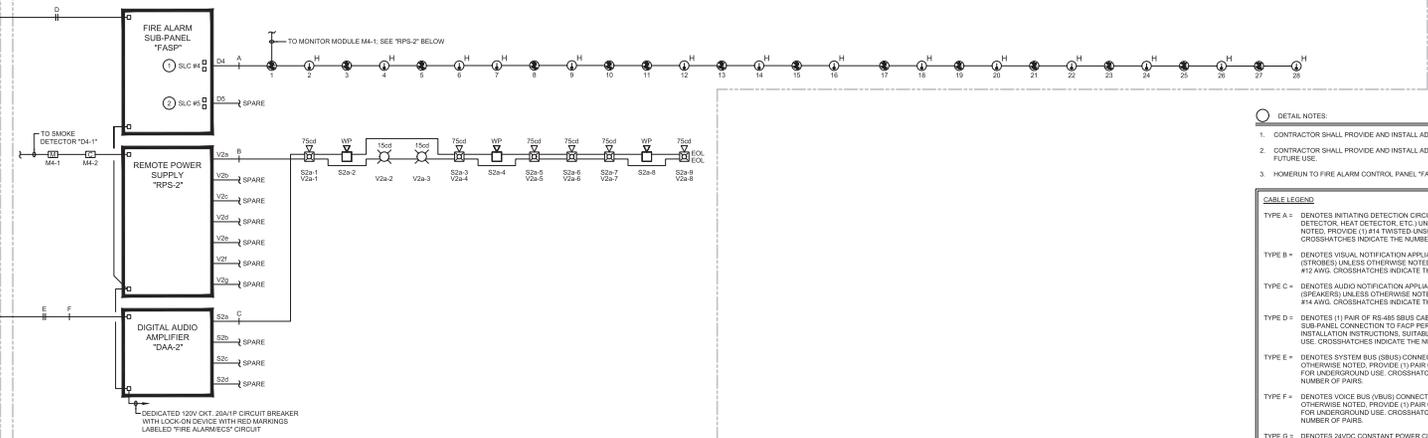
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- ELECTRONICS INDUSTRIAL ASSOCIATION (EIA)
- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
- UNDERWRITER LABORATORIES (UL)
- CALIFORNIA OCCUPATIONAL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

FA.01

MAIN BUILDING



PORTABLE BUILDINGS



- DETAIL NOTES:**
- CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL SLC CARD.
  - CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL SLC CARD FOR FUTURE USE.
  - HOMERUN TO FIRE ALARM CONTROL PANEL "FACP".
- 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 B** - DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (TRIPPERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE C** - DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE D** - DENOTES (1) PAIR OF R3-45 SBUS CABLE FOR FIRE ALARM SUB-PANEL CONNECTION TO FACP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE E** - DENOTES SYSTEM BUS (SBUS) CONNECTION UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE F** - DENOTES VOICE BUS (VBUS) CONNECTION UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE G** - 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 H** - DENOTES SUPERVISORY RELAY TRIPS FOR CAC. PROVIDE (2) STRANDED #14 AWG.

(ISA STAMP AREA)



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**PROJECT NO. 2024-01**

**FIRE ALARM RISER DIAGRAM**

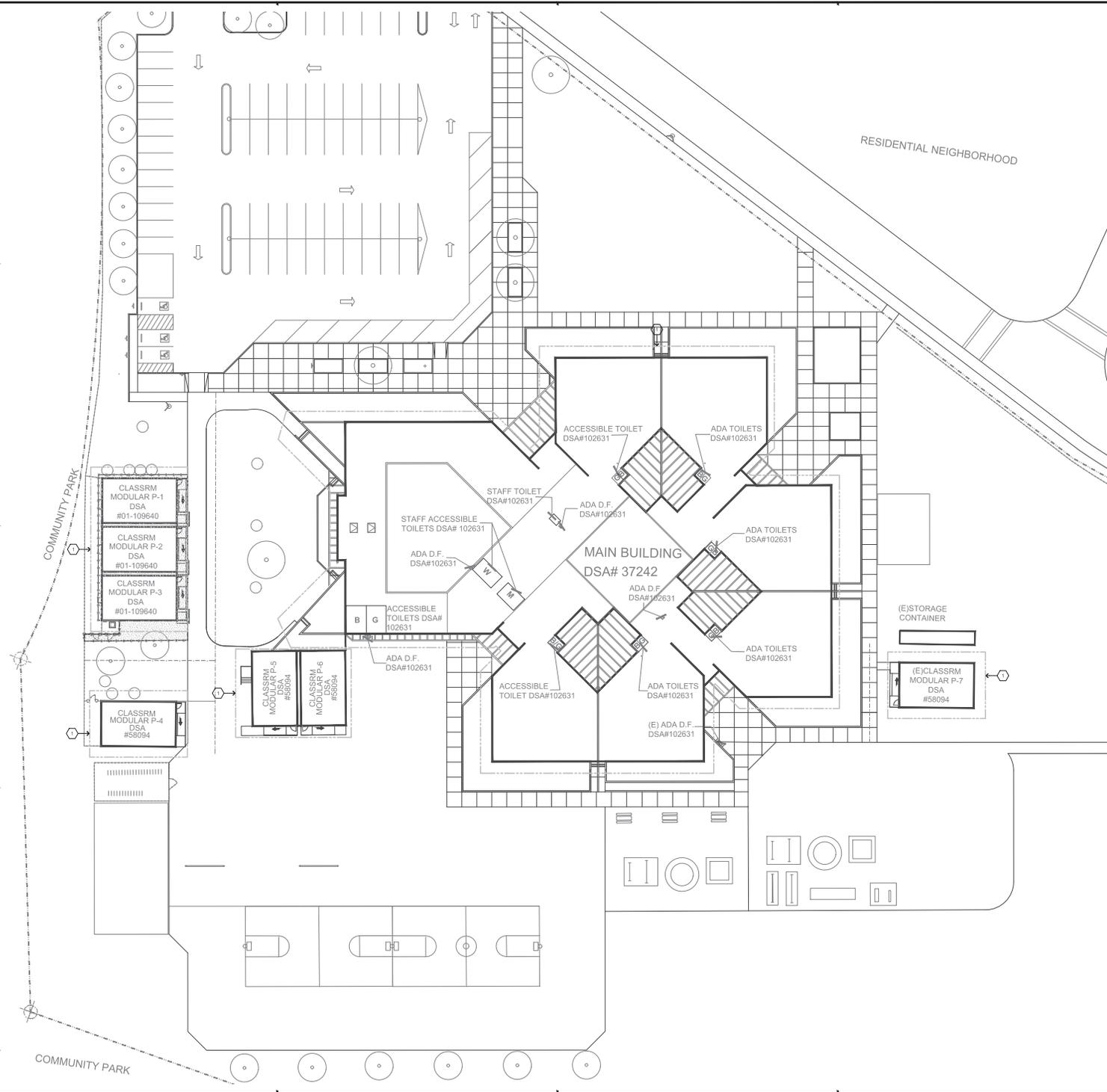
**FIRE ALARM UPGRADE  
 MAJESTIC WAY ELEMENTARY SCHOOL  
 1855 MAJESTIC WAY, SAN JOSE, CA 95132  
 BERRYESSA UNION SCHOOL DISTRICT**

REVISION	NO.	ITEM	DATE
	DSR	SUBMITTAL	03/28/23

DRAWN BY: F.S.  
 CHECKED BY: N.A.  
 SFA JOB NO.: 2024  
 DATE: 03/28/2023

**FA.1.1**





**○ SHEET NOTES**

- CONTRACTOR SHALL DEMOLISH FIRE ALARM SYSTEM COMPLETE (FIRE ALARM CONTROL PANEL, DEVICES, WIRING, ETC) PER GENERAL DEMOLITION NOTES ON THIS SHEET. PROVIDE AND INSTALL BLANK DEVICE COVER PLATES TO ENCLOSE ALL OPENINGS TO MATCH EXISTING WALLS. COMPLETELY COVERED FROM REMOVED DEVICES. PAINT FINISH TO MATCH EXISTING WALLS. CONTRACTOR SHALL ASSURE QUANTITY OF DEVICES TO BE REMOVED IS THE SAME AS QUANTITY OF NEW DEVICES BEING ADDED AS PART OF NEW WORK. IN ADDITIONAL ALL HEAT DETECTORS IN ACCESSIBLE CEILING SPACES SHALL BE DEMOLISHED COMPLETE. ASSURE MINIMUM (2) HEAT DETECTORS PER ENCLOSED SPACE. CONTRACTOR SHALL INSTALL COVER PLATES AND PATCH WALLS/CEILING WHERE EXISTING DEVICES ARE REMOVED.

**GENERAL DEMOLITION NOTES**

- CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.
- 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.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.
- WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED 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 NONOPERATIVE DURING DEMOLITION. ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.
- ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.
- NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
- EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
- EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK. MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND CONCEAL WITH LOCATION SHOWN FOR THE NEW WORK.
- 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.
- WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS 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 INTERRUPTING. WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.

(DSA STAMP AREA)

**SFA**

REGISTERED ARCHITECT  
STATE OF CALIFORNIA  
No. 10000  
EXPIRES 12/31/2025

REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA  
No. 22564  
EXPIRES 12/31/2025

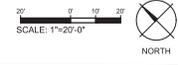
**AV** AVIATION CONSULTING ENGINEERS  
Electrical Bar, Inc.  
Project No. 2204147  
404 W. Franklin St., Suite 1000, Berkeley, CA 94609  
Tel: 415.863.1200 | Fax: 415.863.1204 | www.avcon.com

**FIRE ALARM DEMOLITION PLAN**

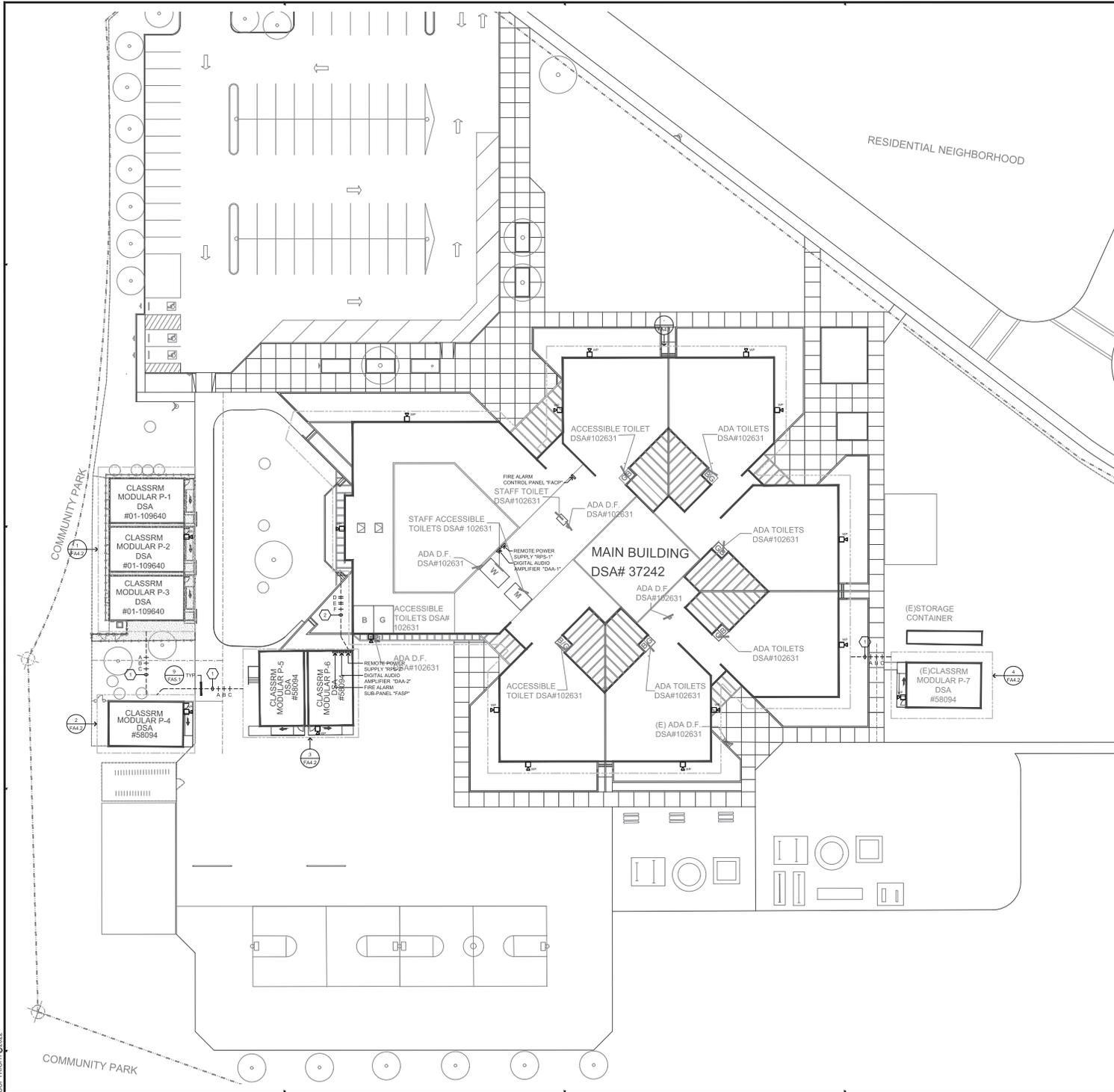
**FIRE ALARM UPGRADE  
MAJESTIC WAY ELEMENTARY SCHOOL  
1865 MAJESTIC WAY, SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT**

REVISION NO.	ITEM	DATE
1	DSA RESUBMITTAL	03/28/23

DRAWN BY: F.S.  
CHECKED BY: N.A.  
SFA JOB NO: 22084 DATE: 03/28/2023



**FA2.1**



**○ SHEET NOTES**

1. PROVIDE AND INSTALL 1" FC FOR FIRE ALARM CABLES.
2. PROVIDE AND INSTALL 2" FC FOR FIRE ALARM CABLES.

**GENERAL NOTES:**

A. CONTRACTOR SHALL LOCATE ALL (E) 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 DISTRICT.

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 DISTRICT ARCHITECT FOR EXACT REQUIREMENTS.

C. ALL BUILDING FIRE ALARM DEVICES (REMOTE POWER SUPPLIES, DIGITAL AUDIO AMPLIFIERS AND OUTDOOR SPEAKERS) ARE SHOWN FOR REFERENCE ONLY. SEE FIRE ALARM PLAN FOR EXACT LOCATIONS.

**CABLE LEGEND**

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

TYPE B - DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STRIPES) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C - DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE D - DENOTES (1) PAIR OF RS-485 BUS CABLE FOR FIRE ALARM SUB-PANEL CONNECTION TO FACP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE E - DENOTES SYSTEM BUS (SBS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE F - DENOTES VOICE BUS (VBS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE G - 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 H - DENOTES SUPERVISORY RELAY TRIPS FOR FAC. PROVIDE (2) STRANDED #14 AWG.

(DSA STAMP AREA)

**SFA**

REGISTERED ARCHITECT  
STATE OF CALIFORNIA  
No. 10254  
EXPIRES 12/31/2025

REGISTERED PROFESSIONAL ELECTRICIAN  
STATE OF CALIFORNIA  
No. 12345  
EXPIRES 12/31/2025

PROJECT: 03/28/23

404 W. Franklin St., Suite 1000, Berkeley, CA 94709  
Tel: 415.863.1234 | Fax: 415.863.1235 | www.sfa.com

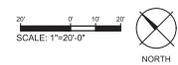
**FIRE ALARM SITE PLAN**

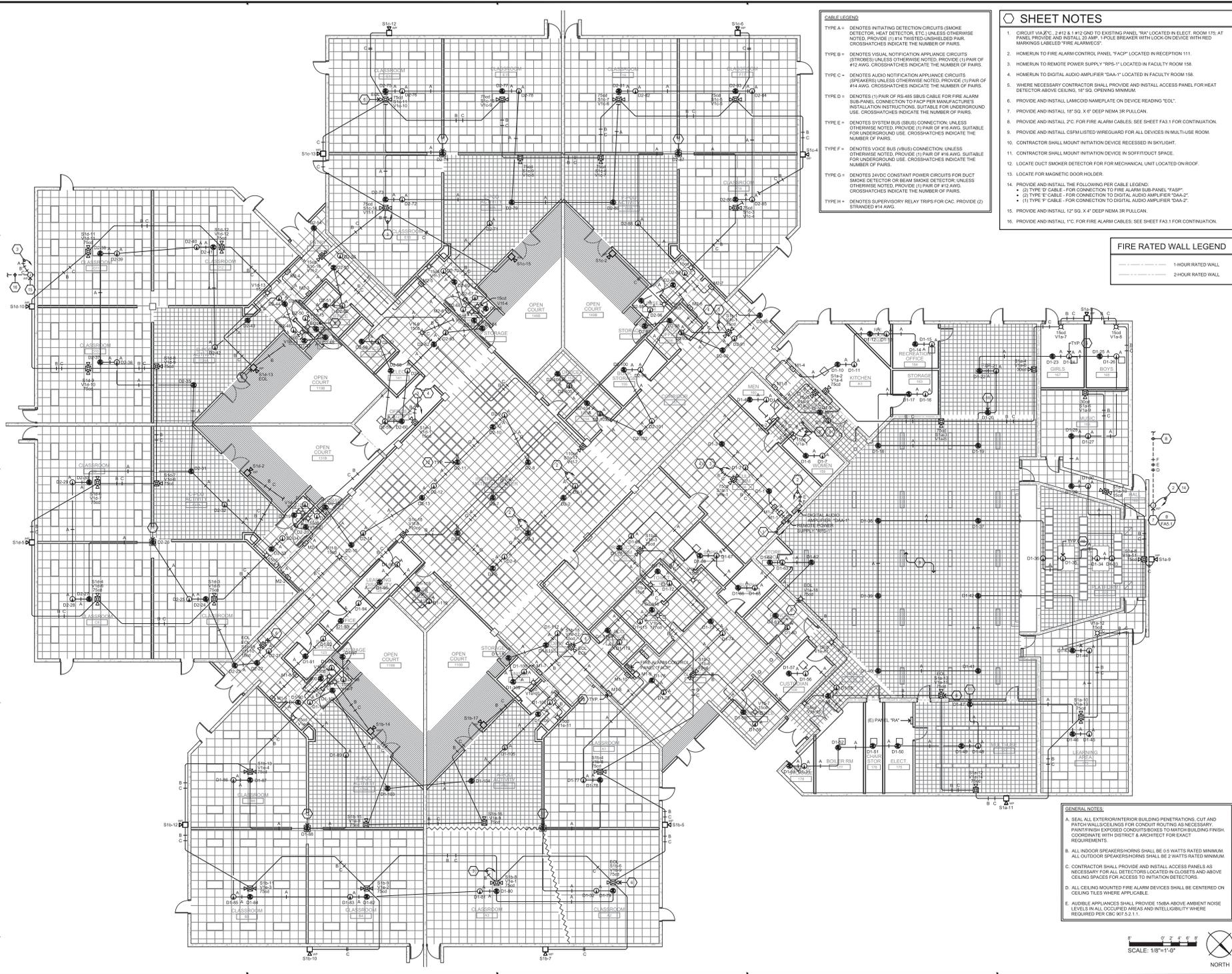
FIRE ALARM UPGRADE  
MAJESTIC WAY ELEMENTARY SCHOOL  
1865 MAJESTIC WAY, SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

REVISION NO.	ITEM	DATE
1	DSA RESUBMITTAL	03/28/23

DRAWN BY: F.S.  
CHECKED BY: N.A.  
SFA JOB NO: 22084 DATE: 03/28/2023

**FA3.1**





**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 B ■ DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C ■ DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE D ■ DENOTES (1) PAIR OF #16-18 BSW BUS CABLE FOR FIRE ALARM SUB-PANEL CONNECTION TO ROOF PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE E ■ DENOTES SYSTEM BUS (SBS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG, SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE F ■ DENOTES VOICE BUS (VBS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG, SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE G ■ 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 H ■ PROVIDES SUPERVISORY RELAY TRIP(S) FOR CAC. PROVIDE (2) STRANDED #14 AWG.

- SHEET NOTES**
- CIRCUIT 1A, 2/C, 2 #12 & #12 GND TO EXISTING PANEL "1A" LOCATED IN ELECT. ROOM 175. AT PANEL, PROVIDE AND INSTALL 25 AMP, FUSE BREAKER WITH LOCK-ON DEVICE WITH RED MARKINGS LABELED "FIRE ALARMS".
  - HOMERUN TO FIRE ALARM CONTROL PANEL "FACP" LOCATED IN RECEPTION 111.
  - HOMERUN TO DIGITAL AUDIO AMPLIFIER "DAA-1" LOCATED IN FACULTY ROOM 156.
  - WHERE NECESSARY CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANEL FOR HEAT DETECTOR ABOVE CEILING, 18" SQ. OPENING MINIMUM.
  - PROVIDE AND INSTALL LAMCDD NAMEPLATE ON DEVICE READING "EOL".
  - PROVIDE AND INSTALL 18" SQ. X 4" DEEP NEMA 3R PULLCAN.
  - PROVIDE AND INSTALL 2/C FOR FIRE ALARM CABLES. SEE SHEET FA3.1 FOR CONTINUATION.
  - PROVIDE AND INSTALL CFPM LISTED WIREGUARD FOR ALL DEVICES IN MULTI-USE ROOM.
  - CONTRACTOR SHALL MOUNT INITIATION DEVICE RECESSED IN SKYLIGHT.
  - CONTRACTOR SHALL MOUNT INITIATION DEVICE IN SOFFIT/DUCT SPACE.
  - LOCATE DUCT SMOKE DETECTOR FOR FOR MECHANICAL UNIT LOCATED ON ROOF.
  - LOCATE FOR MAGNETIC DOOR HOLDER.
  - PROVIDE AND INSTALL THE FOLLOWING PER CABLE LEGEND:
    - (1) TYPE "C" CABLE - FOR CONNECTION TO FIRE ALARM SUB-PANEL "FACP"
    - (2) TYPE "F" CABLE - FOR CONNECTION TO DIGITAL AUDIO AMPLIFIER "DAA-2"
    - (1) TYPE "C" CABLE - FOR CONNECTION TO DIGITAL AUDIO AMPLIFIER "DAA-2"
  - PROVIDE AND INSTALL 12" SQ. X 4" DEEP NEMA 3R PULLCAN.
  - PROVIDE AND INSTALL 1/C FOR FIRE ALARM CABLES. SEE SHEET FA3.1 FOR CONTINUATION.



**GENERAL NOTES:**

A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALL/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/HORN(S) SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORN(S) SHALL BE 2 WATTS RATED MINIMUM.

C. CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING BRACES FOR ACCESS TO INITIATION DETECTORS.

D. ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.

E. AUDIBLE APPLIANCES SHALL PROVIDE 15DBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CIRC 907.5.2.1.1.



(SEA STAMP AREA)



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Mechanical/Electrical

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**REVISIONS**

NO.	ITEM	DATE
1	DSA RESUBMITTAL	03/28/23

DRAWN BY: F.S.  
CHECKED BY: N.A.  
SFA JOB NO.: DATE: 03/28/2023  
2284

**FIRE ALARM PLAN - MAIN BUILDING**

**FIRE ALARM UPGRADE  
MAJESTIC WAY ELEMENTARY SCHOOL  
1855 MAJESTIC WAY, SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT**

FA4.1

**GENERAL NOTES:**

A. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILING 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/HORN SHALL BE 5.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORN SHALL BE 2 WATTS RATED MINIMUM.

C. CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.

D. ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.

E. AUDIBLE APPLIANCES SHALL PROVIDE 15DBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.1.

**CABLE LEGEND:**

TYPE A - DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR, ETC.) UNLESS OTHERWISE NOTED. PROVIDE (1) #4 TWISTED UNSHIELDED PAIR. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE B - DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C - DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE D - DENOTES (1) PAIR OF RS-485 SBUS CABLE FOR FIRE ALARM SUB-PANEL CONNECTION TO SUPPLY MANUFACTURER'S INSTALLATION INSTRUCTIONS, SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE E - DENOTES SYSTEM BUS (SBUS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE F - DENOTES VOICE BUS (VBUS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE G - 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 H - DENOTES SUPERVISORY RELAY TRIP(S) FOR CAC. PROVIDE (2) STRANDED #14 AWG.

**SHEET NOTES**

- CIRCUIT VOLTAGE: 2 #12 & #12 GND TO EXISTING PANEL LOCATED IN SAME PORTABLE BUILDING. AT PANEL, PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKER WITH LOCK ON DEVICE WITH RED MARKINGS LABELED "FIRE ALARMS".
- HOMERUN TO REMOTE POWER SUPPLY "RPS-2" AND DIGITAL AUDIO AMPLIFIER "DAA-2".
- CONTRACTOR SHALL MOUNT DEVICE IN ACCESSIBLE CEILING SPACE ABOVE.
- PROVIDE AND INSTALL LAMCDD NAMEPLATE ON DEVICE READING "EOL".
- PROVIDE AND INSTALL 18" SQ. X 1/2" DEEP NEMA 3R PULLCAN.
- SEE SHEET #4.1 FOR CONTINUATION.
- PROVIDE AND INSTALL 12" SQ. X 1/2" DEEP NEMA 3R PULLCAN.
- PROVIDE AND INSTALL 1" FC FOR FIRE ALARM CABLES.

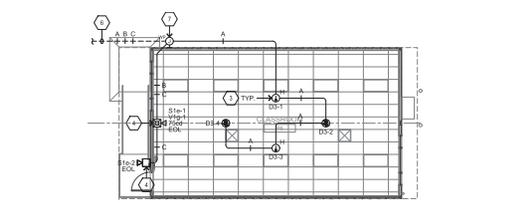
(SEA STAMP AREA)



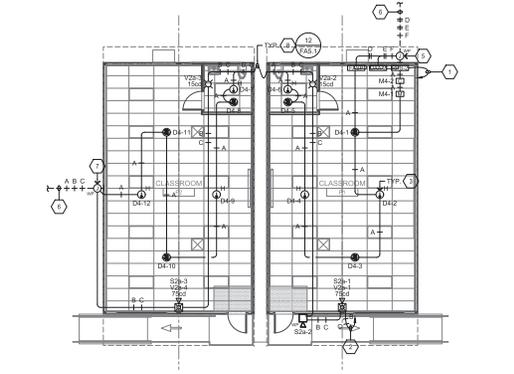

**SFA**

SEAN CONNOLLY  
Professional Engineer  
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State of California

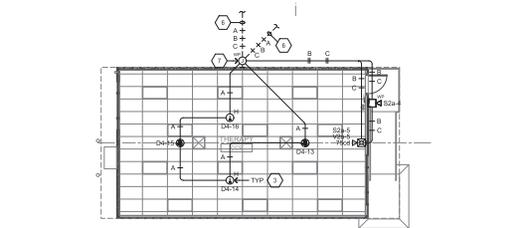
404 W. Franklin St. Suite 108 Berkeley, CA 94609  
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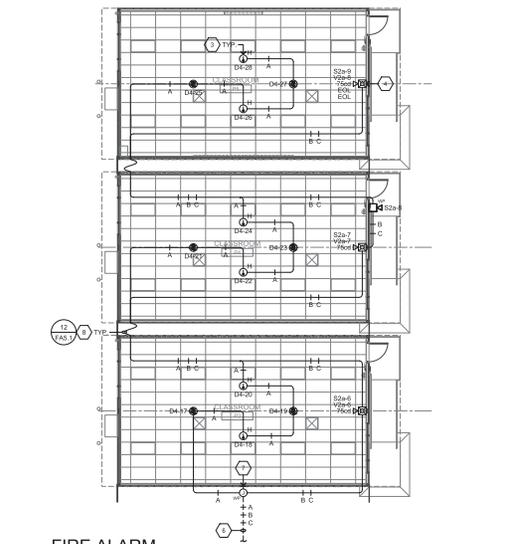
**4 FIRE ALARM PLAN - PORTABLE P7**  
SCALE: 1/8"=1'-0"  
NORTH



**3 FIRE ALARM PLAN - PORTABLES P5 & P6**  
SCALE: 1/8"=1'-0"  
NORTH



**2 FIRE ALARM PLAN - PORTABLES P4**  
SCALE: 1/8"=1'-0"  
NORTH



**1 FIRE ALARM PLAN - PORTABLES P2-P3**  
SCALE: 1/8"=1'-0"  
NORTH

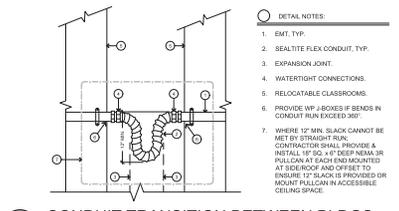
**FIRE ALARM PLAN - PORTABLES**

FIRE ALARM UPGRADE  
MAJESTIC WAY ELEMENTARY SCHOOL  
1855 MAJESTIC WAY, SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

REVISION NO.	ITEM	DATE
1	DSA RESUBMITTAL	03/28/23

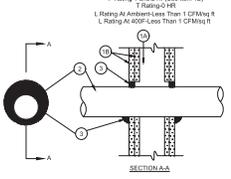
DRAWN BY: F.S.  
CHECKED BY: N.A.  
SFA JOB NO: DATE: 2284 03/28/2023

**FA4.2**



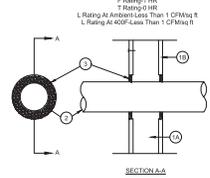
12 CONDUIT TRANSITION BETWEEN BLDGS.  
NO SCALE

SEE FLOOR PLAN DRAWINGS FOR RATED WALL LOCATIONS  
U.L. System No. W-L-1049

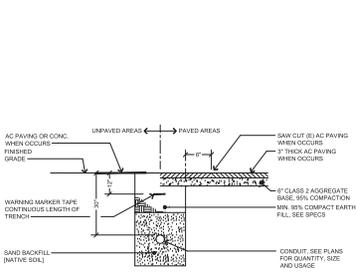


11 2-HR FIRE-RATED WALL PENETRATION  
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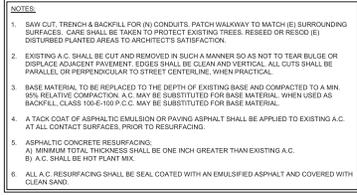
SEE FLOOR PLAN DRAWINGS FOR RATED WALL LOCATIONS  
U.L. System No. W-L-1062



10 1-HR FIRE-RATED WALL PENETRATION  
NO SCALE

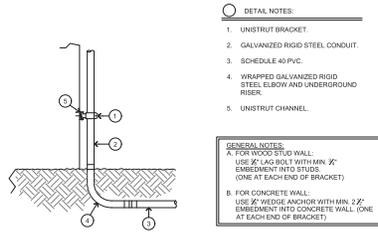


5 STROBE INSTALLATION DETAIL  
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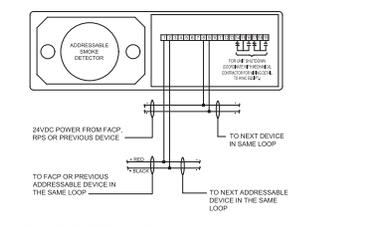
4 SPEAKER INSTALLATION DETAIL  
NO SCALE

9 TYPICAL TRENCH SECTION  
NO SCALE



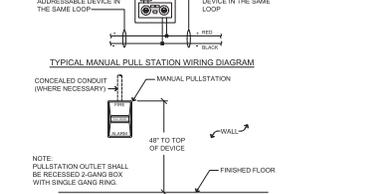
7 DUCT DETECTOR WIRING DIAGRAM  
NO SCALE

8 UNDERGROUND CONDUIT RISER DETAIL  
NO SCALE



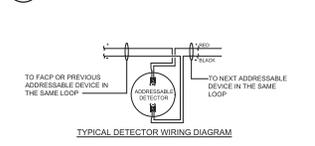
3 SPEAKER/STROBE INSTALLATION DETAIL  
NO SCALE

2 DUCT DETECTOR MOUNTING DETAIL  
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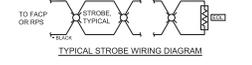


6 PULL STATION MOUNTING DETAIL  
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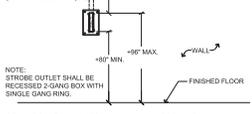
2 DETECTOR MOUNTING DETAIL  
NO SCALE



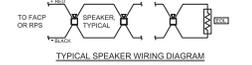
1 DETECTOR MOUNTING DETAIL  
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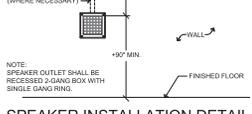
TYPICAL STROBE WIRING DIAGRAM



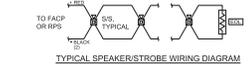
5 STROBE INSTALLATION DETAIL  
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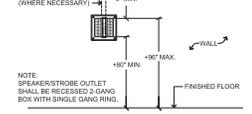
TYPICAL SPEAKER WIRING DIAGRAM



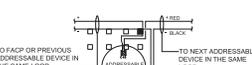
4 SPEAKER INSTALLATION DETAIL  
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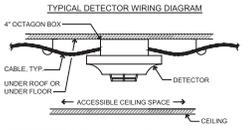
TYPICAL SPEAKER/STROBE WIRING DIAGRAM



3 SPEAKER/STROBE INSTALLATION DETAIL  
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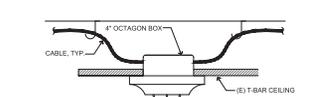
TYPICAL DETECTOR WIRING DIAGRAM



2 DETECTOR MOUNTING DETAIL  
NO SCALE



7 DUCT DETECTOR WIRING DIAGRAM  
NO SCALE



1 DETECTOR MOUNTING DETAIL  
NO SCALE

DETAIL NOTES:

- EMT, TYP.
- SEAL-TITE FLEX CONDUIT, TYP.
- EXPANSION JOINT.
- WATER-TIGHT CONNECTIONS.
- RELOCATABLE CLASSROOMS.
- PROVIDE WP J-BOXES IF BENDS IN CONDUIT RUN EXCEED 90°.
- WHERE 12" MIN. SLACK CANNOT BE MET BY STRAIGHT RUN, CONTRACTOR SHALL PROVIDE & INSTALL 1/8" DIA. x 4" DEEP NEAR 3R PULLBOX AT EACH END MOUNTED AT SIDE ROOF AND OFFSET TO ENSURE 12" SLACK IS PROVIDED OR MOUNT PULLCAN IN ACCESSIBLE CEILING SPACE.

NOTES:

- 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 BLUE 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:
  - MINIMUM TOTAL THICKNESS SHALL BE ONE INCH GREATER THAN EXISTING A.C.
  - A.C. SHALL BE HOT PLANT MIX.
- ALL A.C. RESURFACING SHALL BE SEAL COATED WITH AN EMULSIFIED ASPHALT AND COVERED WITH CLEAN SAND.

DETAIL NOTES:

- UNISTRUT BRACKET.
- GALVANIZED RIGID STEEL CONDUIT.
- SCHEDULE 40 PVC.
- WRAPPED GALVANIZED RIGID STEEL ELBOW AND UNDERGROUND RISER.
- UNISTRUT CHANNEL.

GENERAL NOTES:

- FOR WOOD STUD WALL: USE 2" x 4" AND BOLT WITH MIN. 2" EMBEDMENT INTO STUDS (ONE AT EACH END OF BRACKET).
- FOR CONCRETE WALL: USE 2" WEDGE ANCHOR WITH MIN. 2" EMBEDMENT INTO CONCRETE WALL (ONE AT EACH END OF BRACKET).

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

- Stud Wall Framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4, lumber spaced 16 in. OC. Steel studs to be min 3-5/8 in. wide and spaced max 24 in. OC. When steel studs are used and the dam of opening exceeds the width of stud cavity, the opening shall be framed on each side by a steel stud that is installed between the vertical studs and some attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the dam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.

- Wallboard: Gypsum wallboard shall be installed either non-combustible or acoustically within the firestop system. The space between the conduit and perimeter of opening shall be a min 1/2 inch. Steel conduit to max 1.3125 in. Pipe conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
  - Steel Pipe: Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - Iron Pipe: Nom 24 in. diam (or smaller) cast or ductile iron pipe.
  - Conduit: Nom 4 in. diam (or smaller) steel electrical metallic tubing, nom 4 in. diam (or smaller) steel conduit or nom 1 in. diam (or smaller) flexible steel conduit.
  - Copper Pipe: Nom 6 in. diam (or smaller) Type K (or heavier) copper tubing.

- FIL Void or Cavity Material: Considerable 1/8 in. thickness of 1/8 in. material applied with annulus, flush with both surfaces of wall. At the point contact location between penetrant and gypsum wallboard, a min 3/8 in. diam bead of 1/8 material shall be applied at the gypsum wallboard/penetrant interface on both surfaces of wall.

Specified Technologies Inc. - Duct/Box 100, 101, 102 or 100 Sealant  
Meeting the UL Classification Marking

10 1-HR FIRE-RATED WALL PENETRATION  
NO SCALE

(ISA STAMP AREA)



404 W. Franklin St. • Suite 108 • Berkeley, CA 94609  
Tel: 415.863.0200 • Fax: 415.863.0201  
www.sfa.com

Project No. 2204-01  
SFA JOB NO. 2204  
DATE 03/28/2022

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

FIRE ALARM DETAILS  
FIRE ALARM UPGRADE  
MAJESTIC WAY ELEMENTARY SCHOOL  
1855 MAJESTIC WAY, SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

REVISIONS  
NO. ITEM DATE

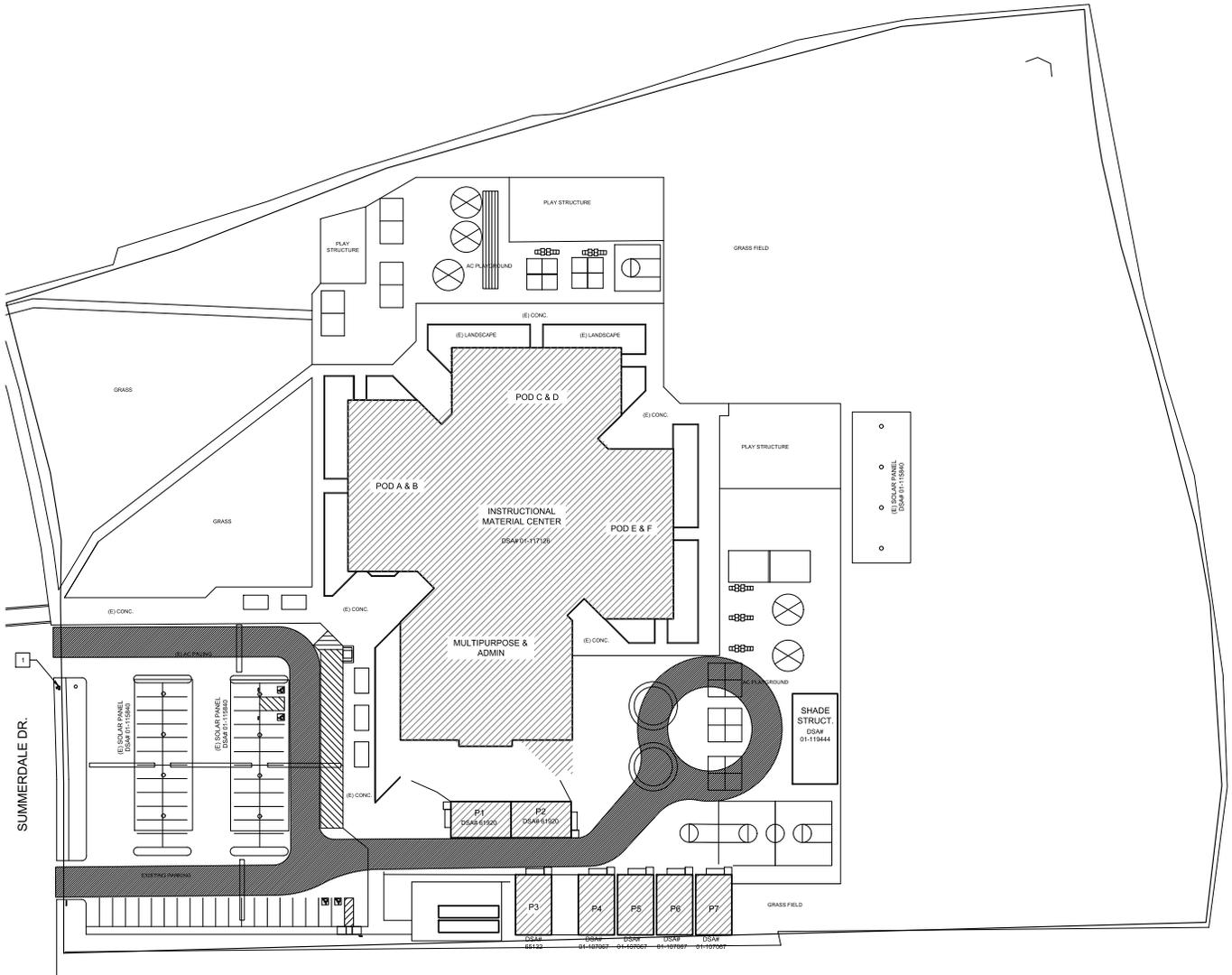
DSR SUBMITTAL: 03/28/22

DRAWN BY: F.S.  
CHECKED BY: N.A.  
SFA JOB NO. 2204  
DATE 03/28/2022

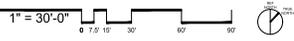
FA5.1



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1 SITE PLAN - FIRE LIFE SAFETY



**PROJECT SUMMARY**

CAMPUS WIDE FIRE ALARM SYSTEM REPLACEMENT.

**GENERAL NOTES**

- A. THIS SHEET IS FOR FIRE LIFE SAFETY CODE RELATED ITEMS.
- B. REFER TO FIRE ALARM DRAWINGS FOR EXTENT OF OTHER RELATED WORK.

**SITE PLAN - FIRE LIFE SAFETY NOTES**

- 1. EXISTING FIRE HYDRANT.

**\* BUILDING CODE ANALYSIS**

BUILDING	OCCUPANCY TYPE	AREA (SQ FT.)	ALLOWABLE (SQ FT.)	# OF STORES
MULTIPURPOSE & ADMIN	V-B / A-3, B, E & S-2	11,837	53,960	1 NON SPRINKLER
INSTRUCTIONAL MATERIAL CENTER	V-B / A-3 & E	7,342	15,500	1 NON SPRINKLER
POD A & B CLASSROOM	V-B / E	7,240	9,500	1 NON SPRINKLER
POD C & D CLASSROOM	V-B / E	7,240	9,500	1 NON SPRINKLER
POD E & F CLASSROOM	V-B / E	7,240	9,500	1 NON SPRINKLER
RELOC. P1 & P2	V-B / E	1,920	9,500	1 NON SPRINKLER
RELOC. P3	V-B / E	2,880	9,500	1 NON SPRINKLER
RELOC. P4, P5, P6 & P7	V-B / E	9,880	9,500	1 NON SPRINKLER
SHADE STRUCT.	A3 / IB	1,600	6,000	1 NON SPRINKLER

\*NO OCCUPANCY CHANGE, SIGNIFICANT ALTERATION, OR INCREASE IN SQUARE FOOTAGE IS PROPOSED FOR THIS PROJECT SCOPE OF WORK. BUILDINGS DID NOT REQUIRE THE ADDITION OF SPRINKLERS. EXISTING BUILDING CONSTRUCTION TYPE WILL BE MAINTAINED.

**GRAPHIC KEY**

- - - - - EXISTING PROPERTY LINE
- - - - - ROOF OVERHANG
- - - - - CHAIN LINK FENCE
- - - - - DECORATIVE FENCE
- ▨ EXISTING BUILDING
- ▨ (E) FIRE DEPARTMENT ACCESS, DS# 01-115844
- ⊙ (E) FIRE HYDRANT
- ⊙ (E) SIGN

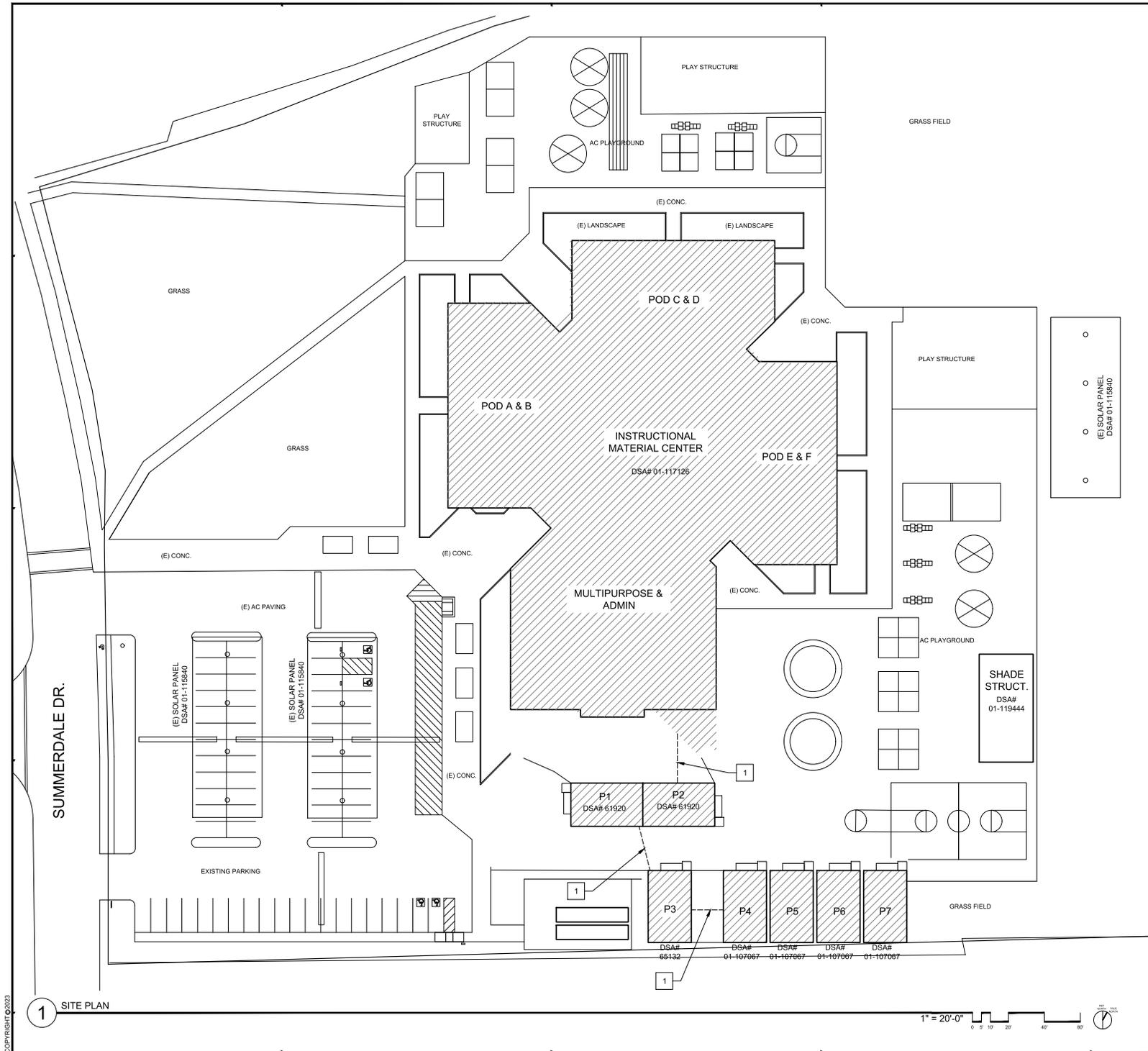


**SITE PLAN  
FIRE LIFE SAFETY**

FIRE ALARM SYSTEM UPGRADE  
SUMMERDALE ELEMENTARY SCHOOL  
1100 SUMMERDALE RD., SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

DRAWN BY: RNL  
CHECKED BY: M.B.  
SFA JOB NO.: 22081 DATE: 04/03/2023



**GENERAL NOTES**

- REFER TO LANDSCAPE, CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE ALARM, AND FIRE PROTECTION DRAWINGS FOR EXTENT OF OTHER RELATED WORK.
- CONTRACTOR TO VERIFY PORTABLE BUILDING NUMBERS WITH THE DISTRICT PRIOR TO SINKAGE.
- CONTRACTOR TO VERIFY ALL BARRIERS IN P.O.T. HAVE BEEN REMOVED.

**SITE PLAN NOTES**

- (A) TRENCHING FOR FIRE ALARM CONDUITS, SAW CUT AND REMOVE AC PAVING AND/OR CONCRETE AS REQUIRED. SEE FIRE ALARM DRAWINGS FOR MORE INFORMATION AND DETAIL. SFA'S 1 AND 3 & 5&S 1 FOR TRENCHING AND PATCHBACK, FINISH TO MATCH ADJACENT SURFACES.

**GRAPHIC KEY**

- - - - - EXISTING PROPERTY LINE
- - - - - ROOF OVERHANG
- - - - - CHAINLINK FENCE
- - - - - DECORATIVE FENCE
- ▨ EXISTING BUILDING
- ⊕ (E) FIRE HYDRANT



**SITE PLAN**

FIRE ALARM SYSTEM UPGRADE  
 SUMMERDALE ELEMENTARY SCHOOL  
 1100 SUMMERDALE RD., SAN JOSE, CA 95132  
 BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

DRAWN BY: RNL  
 CHECKED BY: M.B.  
 SFA JOB NO: 22083 DATE: 04/03/2023

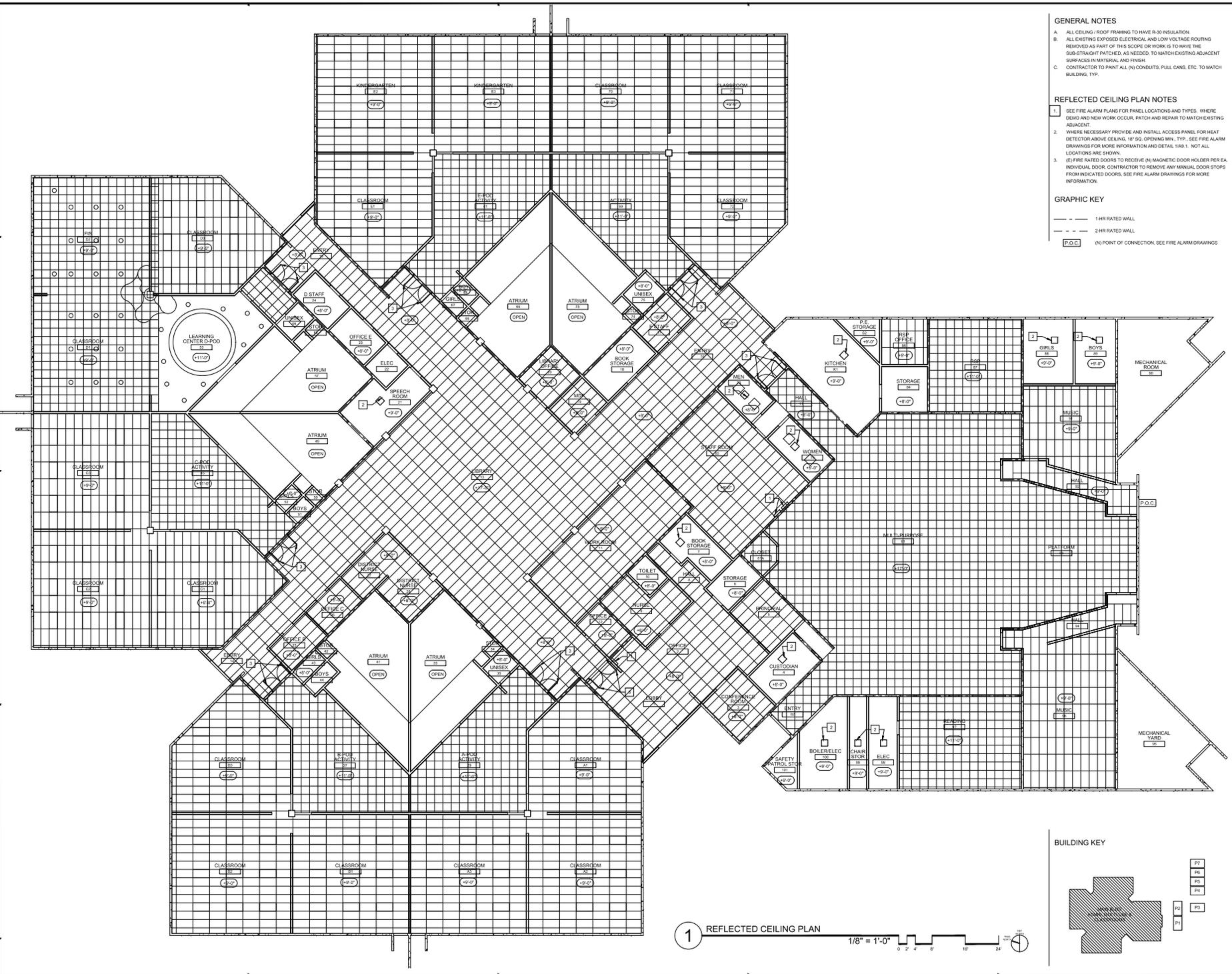
A0.2

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1 SITE PLAN

1" = 20'-0"

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**GENERAL NOTES**

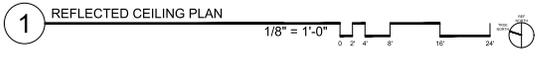
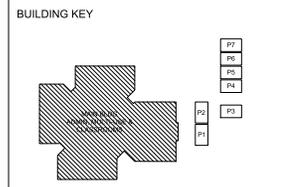
- A. ALL CEILING/ROOF FRAMING TO HAVE R-30 INSULATION.
- B. ALL EXISTING EXPOSED ELECTRICAL AND LOW VOLTAGE ROUTING REMOVED AS PART OF THIS SCOPE OR WORK IS TO HAVE THE SUB-STRUNG PATCHED, AS NEEDED, TO MATCH EXISTING ADJACENT SURFACES IN MATERIAL AND FINISH.
- C. CONTRACTOR TO PAINT ALL (N) CONDUITS, PULL CANS, ETC. TO MATCH BUILDING TYP.

**REFLECTED CEILING PLAN NOTES**

1. SEE FIRE ALARM PLANS FOR PANEL LOCATIONS AND TYPES. WHERE DEMO AND NEW WORK OCCUR, PATCH AND REPAIR TO MATCH EXISTING ADJACENT.
2. WHERE NECESSARY PROVIDE AND INSTALL ACCESS PANEL FOR HEAT DETECTOR ABOVE CEILING, 1" SQ. OPENING MIN. TYP. SEE FIRE ALARM DRAWINGS FOR MORE INFORMATION AND DETAIL 100.1. NOT ALL LOCATIONS ARE SHOWN.
3. (E) FIRE RATED DOORS TO RECEIVE (N) MAGNETIC DOOR HOLDER PER EA. INDIVIDUAL DOOR. CONTRACTOR TO REMOVE ANY MANUAL DOOR STOPS FROM INDICATED DOORS. SEE FIRE ALARM DRAWINGS FOR MORE INFORMATION.

**GRAPHIC KEY**

- 1-HR RATED WALL
- 2-HR RATED WALL
- (N) POINT OF CONNECTION. SEE FIRE ALARM DRAWINGS



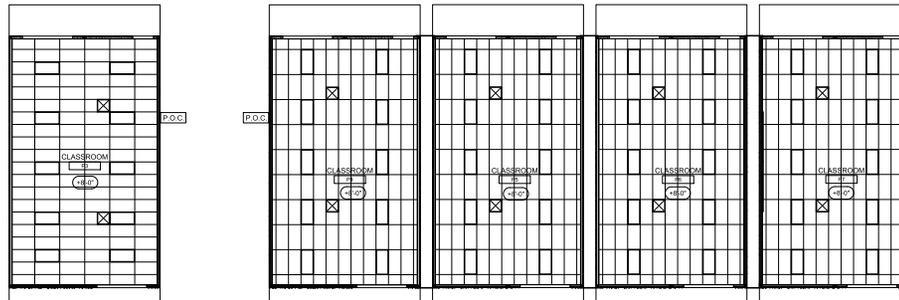
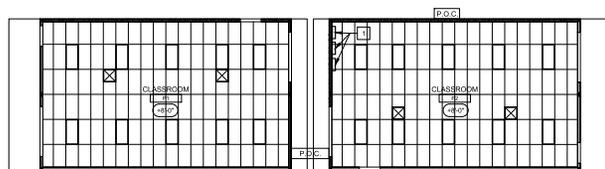
REFLECTED CEILING PLAN - MAIN BUILDING

FIRE ALARM SYSTEM UPGRADE  
SUMMERDALE ELEMENTARY SCHOOL  
1100 SUMMERDALE RD., SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

DRAWN BY: RNL  
 CHECKED BY: M.B.  
 SFA JOB NO: 22083 DATE: 06/03/2023

**A3.1**



1 REFLECTED CEILING PLANS - PORTABLES



GENERAL NOTES

- A. ALL CEILING ROOF FRAMING TO HAVE R-30 INSULATION.
- B. ALL EXISTING EXPOSED ELECTRICAL AND LOW VOLTAGE ROUTING REMOVED AS PART OF THIS SCOPE OR WORK IS TO HAVE THE SUB-STRAIGHT PATCHED, AS NEEDED, TO MATCH EXISTING ADJACENT SURFACES IN MATERIAL AND FINISH.
- C. CONTRACTOR TO PAINT ALL IN, CONDUITS, PULL CANS, ETC. TO MATCH BUILDING, TYP.

(SFA STAMP AREA)



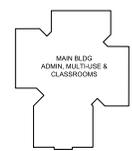
REFLECTED CEILING PLAN NOTES

- 1. SEE FIRE ALARM PLANS FOR PANEL LOCATIONS AND TYPES. WHERE DEMO AND NEW WORK OCCUR, PATCH AND REPAIR TO MATCH EXISTING ADJACENT.

GRAPHIC KEY

- P.O.C. (N) POINT OF CONNECTION, SEE FIRE ALARM DRAWINGS
- (E) (E) SUPPLY DIFFUSER
- (L) (E) 2' X 4' LIGHT FIXTURE

BUILDING KEY

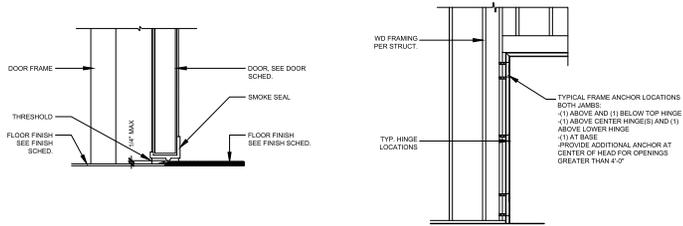


REFLECTED CEILING PLANS - PORTABLES

FIRE ALARM SYSTEM UPGRADE  
 SUMMERDALE ELEMENTARY SCHOOL  
 1100 SUMMERDALE RD., SAN JOSE, CA 95132  
 BERRYESSA UNION SCHOOL DISTRICT

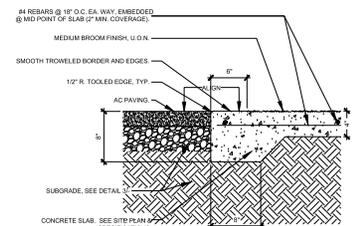
REVISIONS NO.	ITEM	DATE

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 SFA JOB NO: 22083 DATE: 04/03/2023

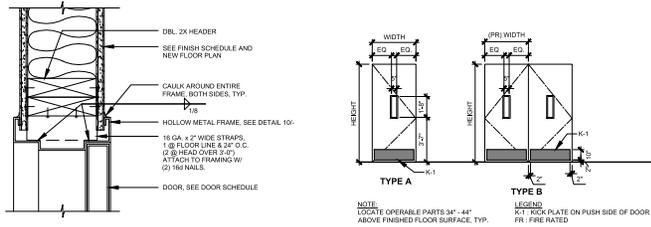


16 INT. RATED DOOR THRESHOLD  
3"=1'-0"

12 FRAME ANCHOR LOCATIONS  
1/2"=1'-0"

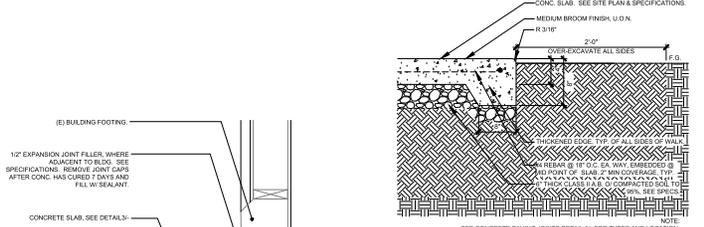


4 ASPHALT / CONCRETE JOINT  
1-1/2"=1'-0"

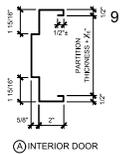


15 TYPICAL INTERIOR DOOR HEAD JAMB SIMILAR  
3"=1'-0"

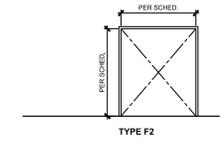
11 DOOR TYPE  
1/4"=1'-0"



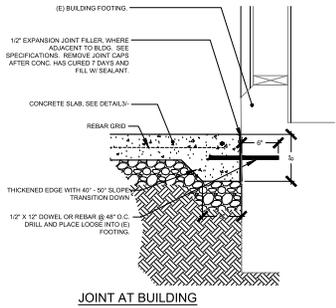
3 EDGE OF CONC. PAVING  
1-1/2"=1'-0"



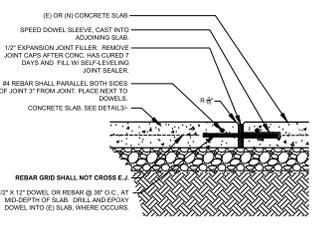
14 HOLLOW METAL FRAMES  
3"=1'-0"



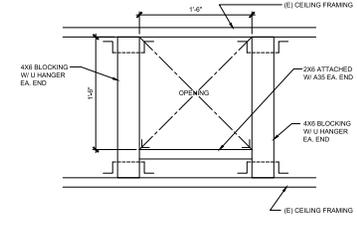
10 DOOR FRAME  
1/4"=1'-0"



JOINT AT BUILDING



EXPANSION JOINT



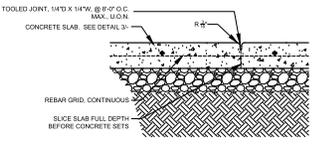
2 NEW OPENING AT CEILING FOR ACCESS PANEL  
1-1/2"=1'-0"

ROOM	DOOR (SEE DETAIL 11-1)				FRAME (SEE DETAIL 10-1)			FIRE RATING (MIN.)	DETAILS			HARDWARE GROUP (SEE SPEC)
	TAG	SIZE - W x H x T	TYPE	FIN.	TYPE	MAT.	FIN.		HEAD	JAMB	THRES.	
ADMIN LOBBY / HALL	001	PR-3'6" x 7'-10" x 1-3/4"	B	WD	CLR	F2	HM	PTD	120	150	150	2
A-POD / CORRIDOR	002	PR-3'6" x 7'-10" x 1-3/4"	B	WD	CLR	F2	HM	PTD	120	150	150	2
B-POD / CORRIDOR	003	PR-3'6" x 7'-10" x 1-3/4"	B	WD	CLR	F2	HM	PTD	120	150	150	2
C-POD / CORRIDOR	004	PR-3'6" x 7'-10" x 1-3/4"	B	WD	CLR	F2	HM	PTD	120	150	150	2
D-POD / CORRIDOR	005	PR-3'6" x 7'-10" x 1-3/4"	B	WD	CLR	F2	HM	PTD	120	150	150	2
E-POD / CORRIDOR	006	PR-3'6" x 7'-10" x 1-3/4"	B	WD	CLR	F2	HM	PTD	120	150	150	2
F-POD / CORRIDOR	007	PR-3'6" x 7'-10" x 1-3/4"	B	WD	CLR	F2	HM	PTD	120	150	150	2
KITCHEN / CORRIDOR	008	PR-3'6" x 7'-10" x 1-3/4"	B	WD	CLR	F2	HM	PTD	120	150	150	2

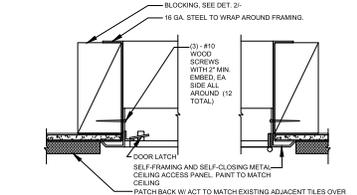
NOTE:  
1. DOORS TO BE REPLACED WITH INKING NEW FIRE RATED FRAMES AND DOORS, TO MATCH IN SIZE AND FINISH. DOOR SIZES TO BE VERIFIED IN FIELD.  
2. DOOR LIGHTS TO BE FIRE RATED.

LEGEND:  
HM - HOLLOW METAL  
CLR - CLEAR COAT VARNISH  
PTD - PAINTED  
WD - WOOD

9 DOOR SCHEDULE



TOOLED JOINT



1 CEILING ACCESS PANEL @ HARD LID CEILING  
3"=1'-0"

5 CONCRETE PAVING JOINTS  
1-1/2"=1'-0"



TYPICAL DETAILS

REVISIONS:  
NO. ITEM DATE

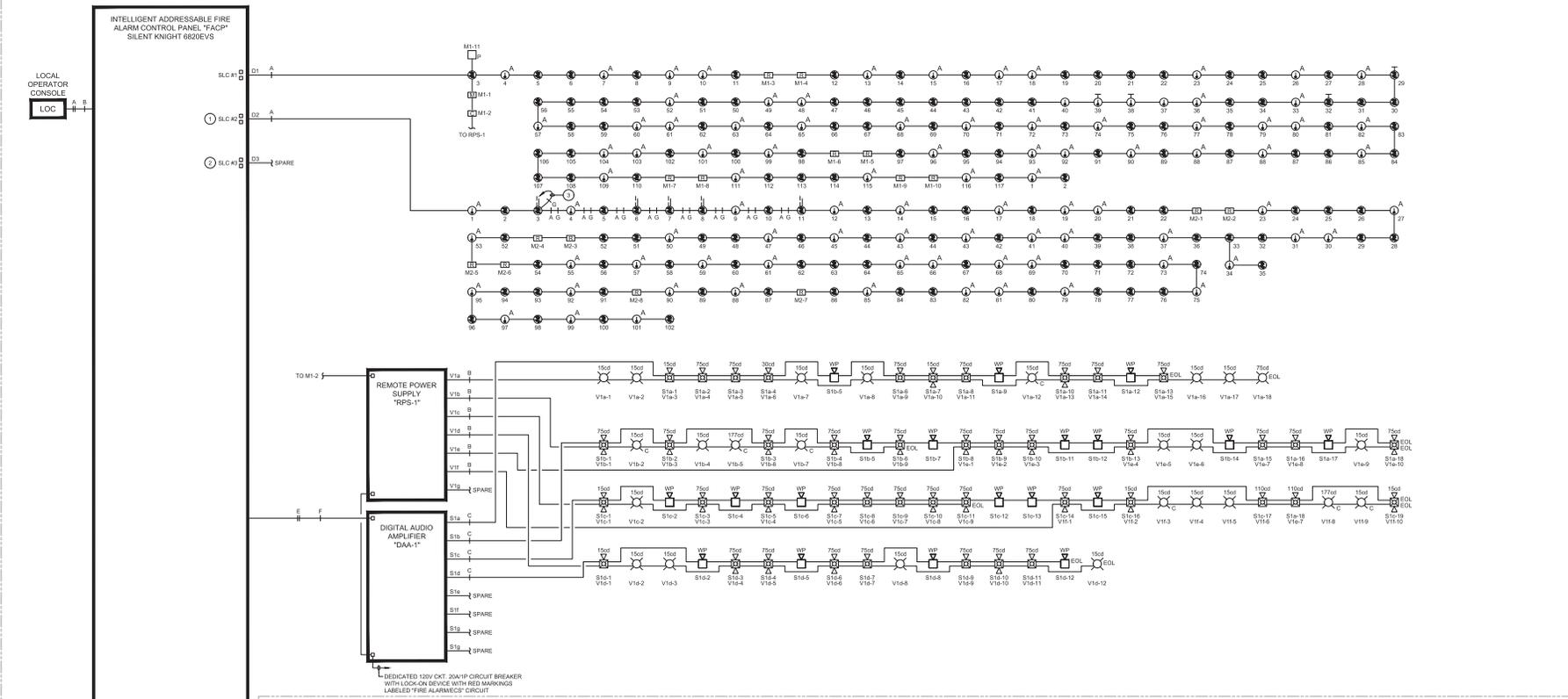
DRAWN BY: RWJ  
CHECKED BY: M.B.  
SFA JOB NO.: DATE: 04/03/2023  
22881

FIRE ALARM SYSTEM UPGRADE  
SUMMERDALE ELEMENTARY SCHOOL  
1100 SUMMERDALE RD., SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

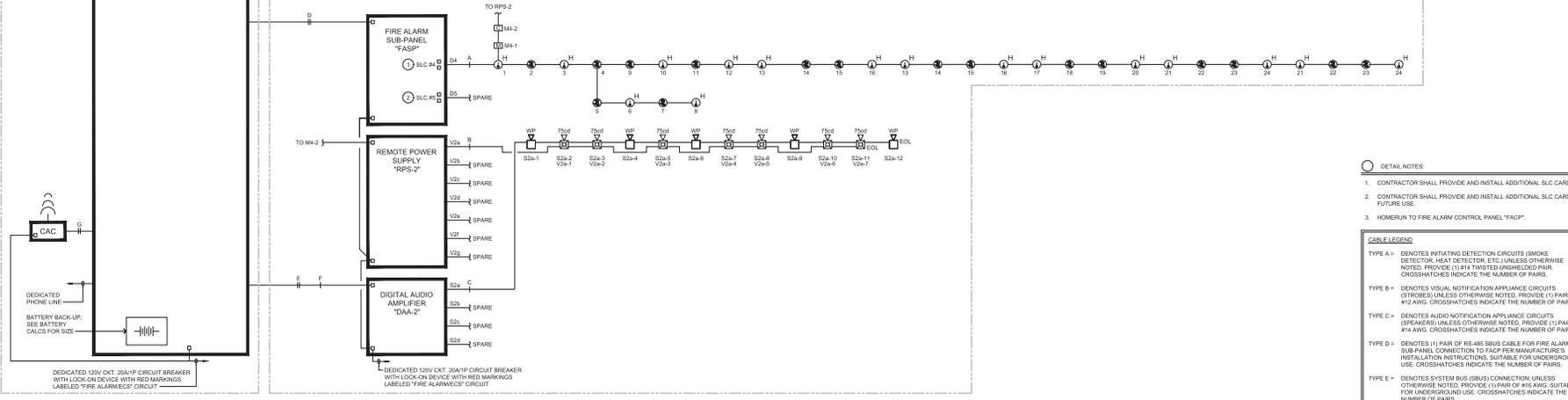
A9.1



MAIN BUILDING



PORTABLE BUILDINGS



- DETAIL NOTES:**
- CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL SLC CARD.
  - CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL SLC CARD FOR FUTURE USE.
  - HOMERUN TO FIRE ALARM CONTROL PANEL "FACP".
- 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 B** - DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (TRIPPED) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE C** - DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE D** - DENOTES (1) PAIR OF R3-45 SBUS CABLE FOR FIRE ALARM SUB-PANEL CONNECTION TO FACP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE E** - DENOTES SYSTEM BUS (SBUS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #12 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE F** - DENOTES VOICE BUS (VBUS) CONNECTION, UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #12 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE G** - 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 H** - DENOTES SUPERVISORY RELAY TRIPS FOR CAC. PROVIDE (2) STRANDED #14 AWG.

(ISA STAMP AREA)

**SFA**

Professional Engineer  
State of California  
License No. 10000

**AV** AV CONSULTANTS  
Engineers  
Architects  
Interior Designers  
Project No. 23044-01  
404 W. Franklin St. Suite 108 Berkeley, CA 94609  
Tel: 415.863.1232 Fax: 415.863.1234  
www.avconsultants.com

**FIRE ALARM RISER DIAGRAM**

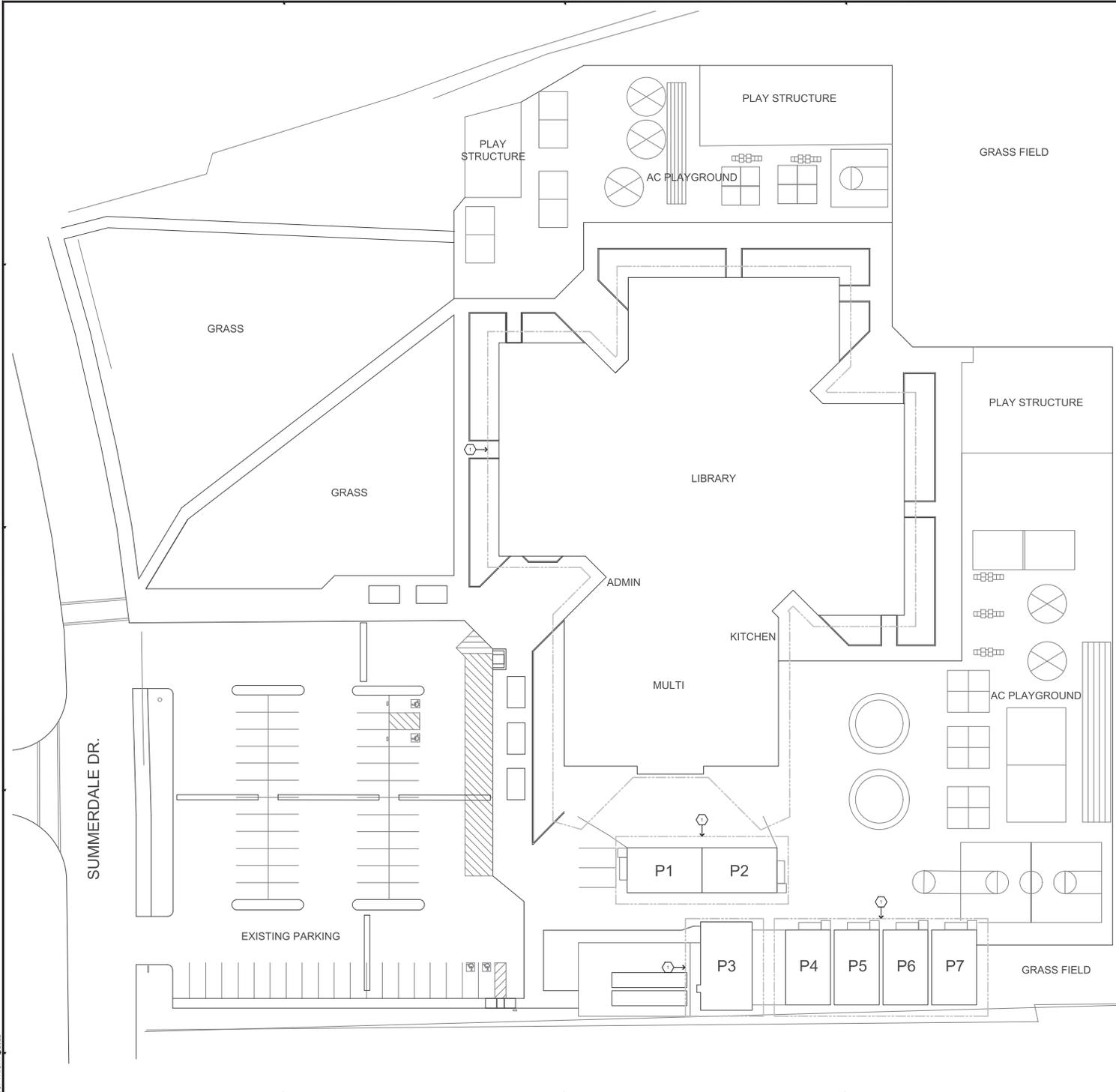
FIRE ALARM UPGRADE  
SUMMERDALE ELEMENTARY SCHOOL  
1100 SUMMERDALE RD., SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

REVISION	NO.	ITEM	DATE
	DSR	RESUBMITTAL	03/28/23

DRAWN BY: F.S.  
CHECKED BY: N.A.  
SFA JOB NO: 23044 DATE: 03/28/2023

**FA.1.1**





**○ SHEET NOTES**

1. CONTRACTOR SHALL DEMOLISH FIRE ALARM SYSTEM COMPLETE (FIRE ALARM CONTROL PANEL, DEVICES, WIRING, ETC) PER GENERAL DEMOLITION NOTES ON THIS SHEET. PROVIDE AND INSTALL DEVICE COVER PLATES OVER OPENINGS TO ENCLOSE ALL OPENINGS ARE COMPLETELY COVERED FROM REMOVED DEVICES. PAINT FINISH TO MATCH EXISTING WALLS. CONTRACTOR SHALL REMOVE QUANTITY OF DEVICES BEING DEMOLISHED TO BE THE SAME AS QUANTITY OF NEW DEVICES BEING ADDED AS PART OF NEW WORK. IN ADDITIONAL, ALL HEAT DETECTORS IN ACCESSIBLE CEILING SPACES SHALL BE DEMOLISHED COMPLETE. ASSUME MINIMUM (2) HEAT DETECTORS PER ENCLOSED SPACE. CONTRACTOR SHALL INSTALL COVER PLATES AND PATCH WALL/CEILING WHERE EXISTING DEVICES ARE REMOVED.

- GENERAL DEMOLITION NOTES**
- A. 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.
  - C. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.
  - D. RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.
  - E. WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE OR PANEL.
  - F. 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 EQUIPMENT AND MATERIAL.
  - H. NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
  - I. EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
  - J. EXISTING FLSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK. MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND CONDUIT WITH LOCATION SHOWN FOR THE NEW WORK.
  - K. FLSH 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.
  - L. 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.
  - M. WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS 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.
  - N. COORDINATE WITH OWNER PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTING. WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.

(SEA STAMP AREA)

**SFA**

**AV** AVAIL CONSULTING ENGINEERS  
 404 W. Franklin St. Suite 108 Berkeley, CA 94609  
 731.446.1330 • 731.446.1338 • www.avail.com

Project No. 22041-01

**REVISIONS**

NO.	ITEM	DATE
1	DSA RESUBMITTAL	03/28/23

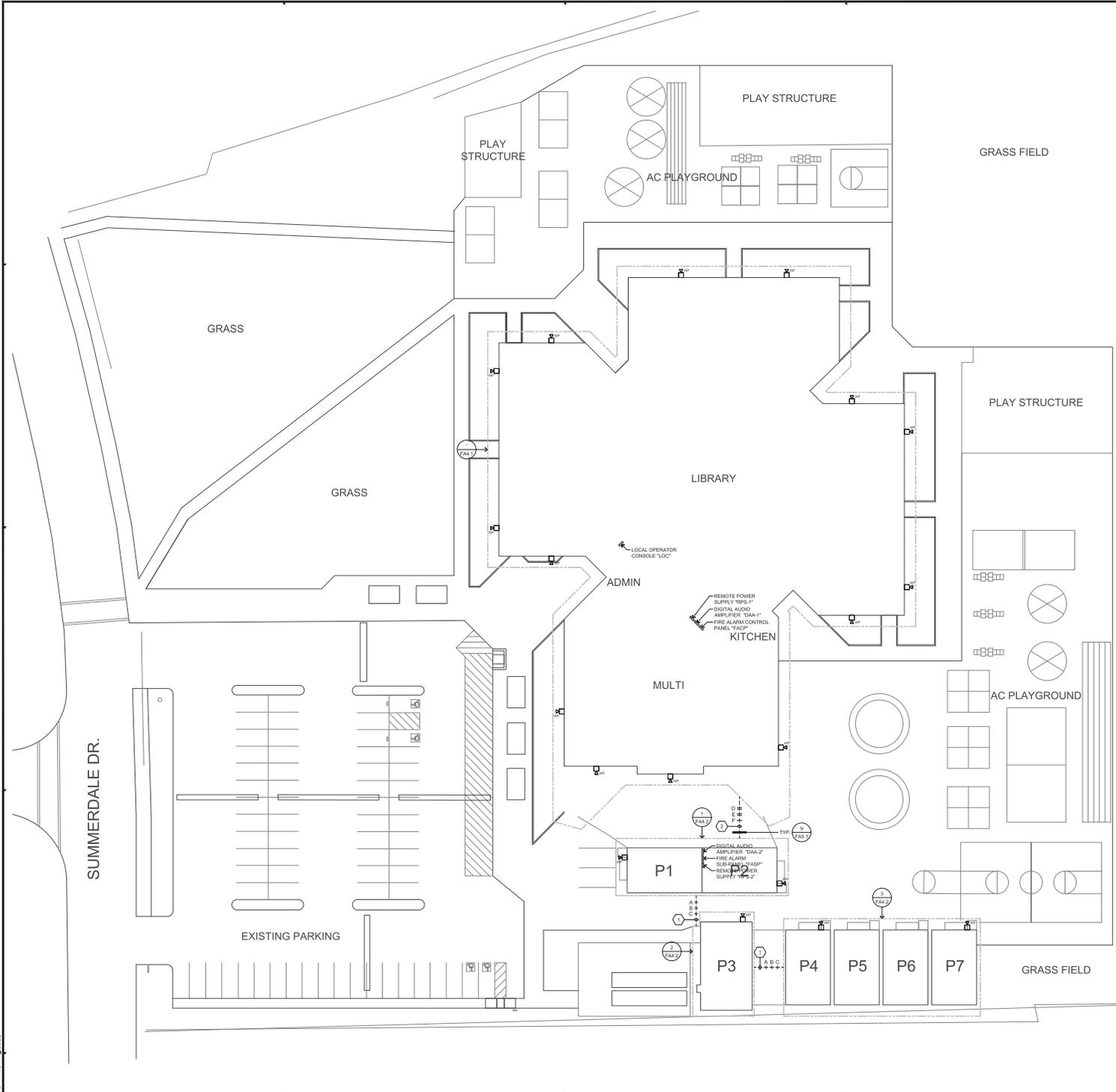
DRAWN BY: F.S.  
 CHECKED BY: N.A.  
 SFA JOB NO: 22041 DATE: 03/28/2023

**FIRE ALARM DEMOLITION PLAN**

**FIRE ALARM UPGRADE  
 SUMMERDALE ELEMENTARY SCHOOL  
 1100 SUMMERDALE RD., SAN JOSE, CA 95132  
 BERRYESSA UNION SCHOOL DISTRICT**

SCALE: 1"=20'-0"

**FA.2.1**



**○ SHEET NOTES**

1. PROVIDE AND INSTALL 1" FC FOR FIRE ALARM CABLES.
2. PROVIDE AND INSTALL 2" FC FOR FIRE ALARM CABLES.

**GENERAL NOTES:**

A. CONTRACTOR SHALL LOCATE ALL (E) 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 DISTRICT.

B. SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALL/CeilINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT/FINISH EXPOSED CONDUITS/BOXES TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.

C. ALL BUILDING FIRE ALARM DEVICES (REMOTE POWER SUPPLIES, DIGITAL AUDIO AMPLIFIERS AND OUTDOOR SPEAKERS) ARE SHOWN FOR REFERENCE ONLY. SEE FIRE ALARM PLANS FOR EXACT LOCATIONS.

**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 B - DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C - DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE D - DENOTES RS-485 CABLE FOR DIGITAL AUDIO AMPLIFIER CONNECTION TO FACP. SUITABLE FOR UNDERGROUND USE.

TYPE E - 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 F - DENOTES SUPERVISORY RELAY TRIPS FOR FACP. PROVIDE (2) STRANDED #14 AWG.

(DSA STAMP AREA)

**SFA**

REGISTERED ARCHITECT  
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA

**AV** AVIS CONSULTING ENGINEERS  
San Jose, CA

Project No. 22044-01

404 W. Franklin St. Suite 1000 San Jose, CA 95128  
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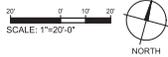
**REVISIONS**

NO.	ITEM	DATE
1	DSA RESUBMITTAL	03/28/23

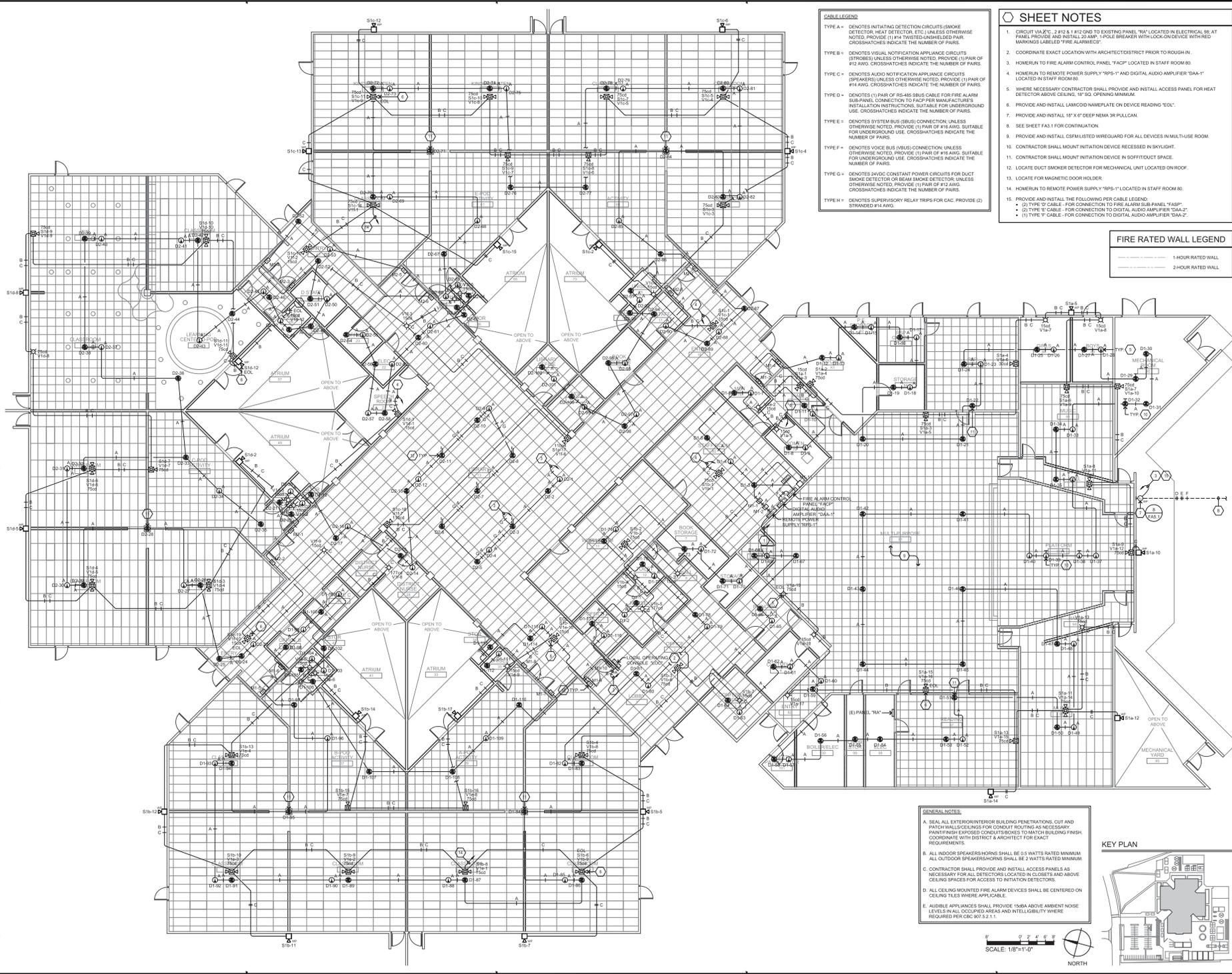
**FIRE ALARM SITE PLAN**

FIRE ALARM UPGRADE  
SUMMERDALE ELEMENTARY SCHOOL  
1100 SUMMERDALE RD., SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

DRAWN BY: F.S.  
CHECKED BY: N.A.  
SFA JOB NO: 22044 DATE: 03/28/2023



**FA3.1**



- 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 B - DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE C - DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE D - DENOTES (1) PAIR OF #16 AWG. SHIELDED CABLE FOR FIRE ALARM SUB-PANEL CONNECTION TO RACP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE E - DENOTES SYSTEM BUS (SBSU) CONNECTION UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE F - DENOTES VOICE BUS (VBSU) CONNECTION UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF #16 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.
  - TYPE G - 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 H - DENOTES SUPERVISORY RELAY TRIPPS FOR CAC. PROVIDE (2) STRANDED #14 AWG.

- SHEET NOTES**
1. CIRCUIT (A/C) 2 #12 & 1 #12 (GND) TO EXISTING PANEL "RA" LOCATED IN ELECTRICAL RM. AT PANEL PROVIDE AND INSTALL 20 AMP 1-POLE BREAKER WITH LOCK-ON DEVICE WITH RED MARKINGS LABELED "FIRE ALARMS".
  2. COORDINATE EXACT LOCATION WITH ARCHITECT DURING PRIOR TO ROUGH-IN.
  3. HOMERUN TO FIRE ALARM CONTROL PANEL "FACP" LOCATED IN STAFF ROOM 80.
  4. HOMERUN TO REMOTE POWER SUPPLY "RPS-1" AND DIGITAL AUDIO AMPLIFIER "DAA-1" LOCATED IN STAFF ROOM 80.
  5. WHERE NECESSARY CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANEL FOR HEAT DETECTOR ABOVE CEILING. 19" SQ. OPENING MINIMUM.
  6. PROVIDE AND INSTALL LAMCORN IMMERSE IN DEVICE READING "EOL".
  7. PROVIDE AND INSTALL 18" X 6" DEEP NEMA 3R PULLCAN.
  8. SEE SHEET FA3.1 FOR CONTINUATION.
  9. PROVIDE AND INSTALL CSF4 LISTED WIREGUARD FOR ALL DEVICES IN MULTIPLE ROOM.
  10. CONTRACTOR SHALL MOUNT INITIATION DEVICE IN SKYLIGHT.
  11. CONTRACTOR SHALL MOUNT INITIATION DEVICE IN SOFFIT/DUCT SPACE.
  12. LOCATE DUCT SMOKE DETECTOR FOR MECHANICAL UNIT LOCATED ON ROOF.
  13. LOCATE FOR MAGNETIC DOOR HOLDER.
  14. HOMERUN TO REMOTE POWER SUPPLY "RPS-1" LOCATED IN STAFF ROOM 80.
  15. PROVIDE AND INSTALL THE FOLLOWING PER CABLE LEGEND:
    - (2) TYPE 'D' CABLE - FOR CONNECTION TO FIRE ALARM SUB-PANEL "FASP"
    - (2) TYPE 'E' CABLE - FOR CONNECTION TO DIGITAL AUDIO AMPLIFIER "DAA-2"
    - (1) TYPE 'F' CABLE - FOR CONNECTION TO DIGITAL AUDIO AMPLIFIER "DAA-2"



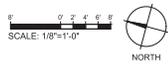
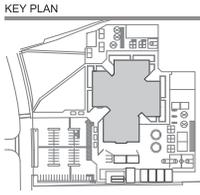
(SEA STAMP AREA)

Justin Anderson  
Professional Engineer  
No. C-24873  
State of California

Justin Anderson  
Professional Engineer  
No. C-24873  
State of California

APR 2016  
1500 W. Foothill Blvd. • Suite 1108 • Sunnyvale, CA 95051  
950.444.1999  
www.sfa-engineers.com

- 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 REQUIREMENTS.
  - B. ALL INDOOR SPEAKERS/HORN SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORN SHALL BE 5 WATTS RATED MINIMUM.
  - C. CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.
  - D. ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.
  - E. AUDIBLE APPLIANCES SHALL PROVIDE 15DBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.



**FIRE ALARM PLAN - MAIN BUILDING**

**FIRE ALARM UPGRADE**  
SUMMERDALE ELEMENTARY SCHOOL  
1100 SUMMERDALE RD., SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

REVISIONS	NO.	ITEM	DATE
		DBA RESUBMITTAL	03/28/23

DRAWN BY: FJS  
CHECKED BY: N/A  
SFA JOB NO: 22004  
DATE: 03/29/2023

**FA4.1**

**GENERAL NOTES:**

- SEAL ALL EXTERIOR/INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALL OPENINGS FOR CONDUIT ROUTING AS NECESSARY. PAINT FINISH EXPOSED CONDUITS/SOCKETS TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT ARCHITECT FOR EXACT REQUIREMENTS.
- ALL INDOOR SPEAKERS/HORN SHALL BE 0.5 WATTS RATED MINIMUM. ALL OUTDOOR SPEAKERS/HORN SHALL BE 3 WATTS RATED MINIMUM.
- CONTRACTOR SHALL PROVIDE AND INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTORS LOCATED IN CLOSETS AND ABOVE CEILING SPACES FOR ACCESS TO INITIATION DETECTORS.
- ALL CEILING MOUNTED FIRE ALARM DEVICES SHALL BE CENTERED ON CEILING TILES WHERE APPLICABLE.
- ALDIBLE APPLIANCES SHALL PROVIDE 15DBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED PER CBC 907.5.2.1.1.

**CABLE LEGEND:**

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

TYPE B - DENOTES VISUAL NOTIFICATION APPLIANCE CIRCUITS (STROBES) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE C - DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUITS (SPEAKERS) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #14 AWG. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE D - SIGNOTES (1) PAIR OF #16-18 AWG CABLE FOR CIRCULAR ALARM SUB-PANEL CONNECTION TO FACP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE E - DENOTES SYSTEM BUS (SBSU) CONNECTION. UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #18 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE F - DENOTES VOICE BUS (VBSU) CONNECTION. UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #18 AWG. SUITABLE FOR UNDERGROUND USE. CROSSHATCHES INDICATE THE NUMBER OF PAIRS.

TYPE G - 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 H - DENOTES SUPERVISORY RELAY TRIPS FOR CAC. PROVIDE (2) STRANDED #14 AWG.

**SHEET NOTES**

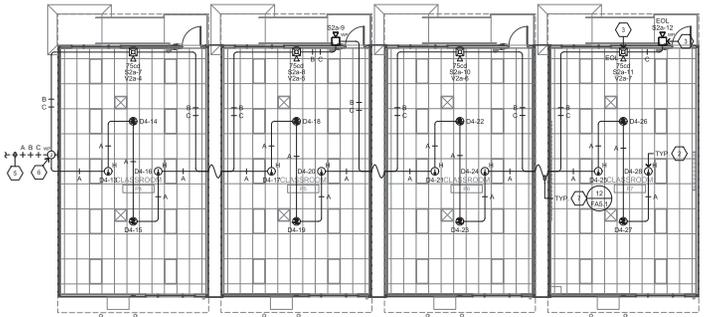
- CIRCUIT 10A/C, 1 #12 & 1 #10 (RD) TO EXISTING PANEL LOCATED IN SAME PORTABLE BUILDING. AT PANEL PROVIDE AND INSTALL 20 AMP, 1-POLE BREAKER WITH LOCK-ON DEVICE WITH RED MARKINGS LABELED "FIRE ALARMS".
- CONTRACTOR SHALL MOUNT DEVICE IN ACCESSIBLE CEILING SPACE ABOVE.
- PROVIDE AND INSTALL LAMCOOD NAMEPLATE ON DEVICE READING "EOL".
- PROVIDE AND INSTALL 18" X 6" DEEP NEMA 3R PULLCAN.
- SEE SHEET FA4.1 FOR CONTINUATION.
- PROVIDE AND INSTALL 12" X 4" DEEP NEMA 3R PULLCAN.
- PROVIDE AND INSTALL 1/2" FOR FIRE ALARM CABLES.

(SEA STAMP AREA)

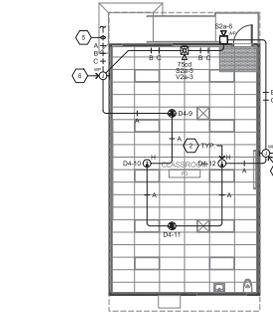




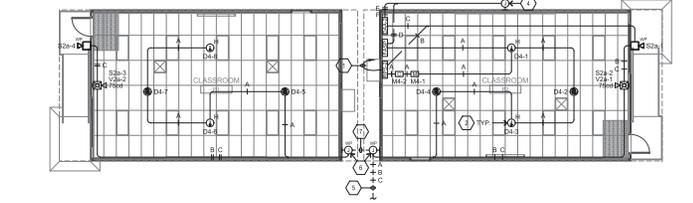
 Alpha Consulting Engineers  
 1101 16th Street, Suite 200  
 San Jose, CA 95132  
 Phone: 408.951.1000  
 Fax: 408.951.1001  
 Website: www.alphaconsulting.com



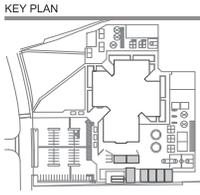
**3 FIRE ALARM PLAN - PORTABLES P4-P7**  
SCALE: 1/8"=1'-0"



**2 FIRE ALARM PLAN - PORTABLE P3**  
SCALE: 1/8"=1'-0"



**1 FIRE ALARM PLAN - PORTABLES P1 & P2**  
SCALE: 1/8"=1'-0"



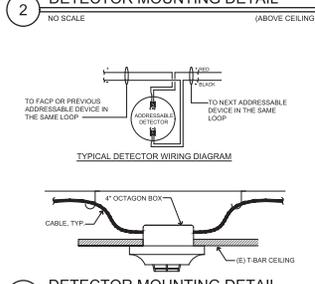
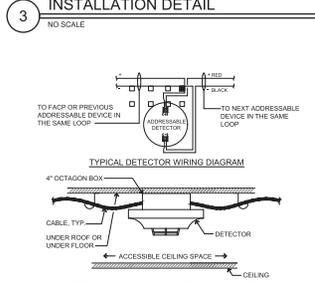
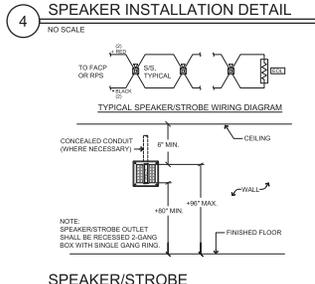
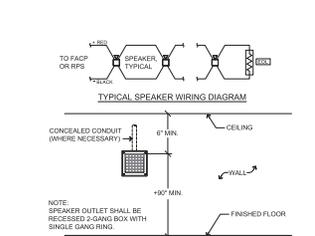
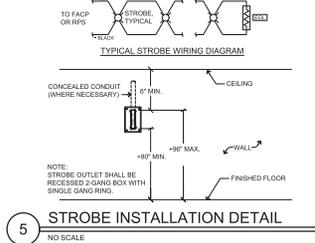
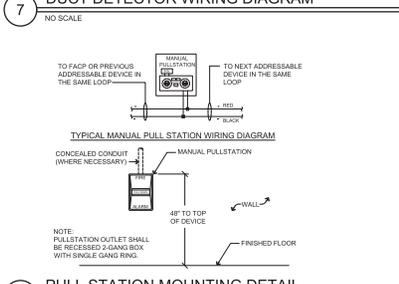
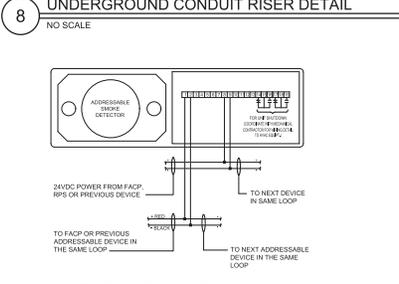
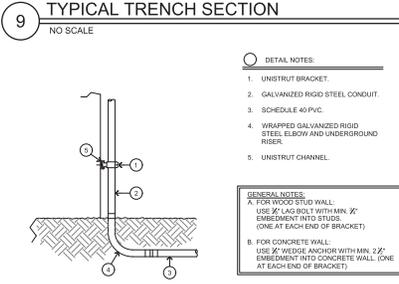
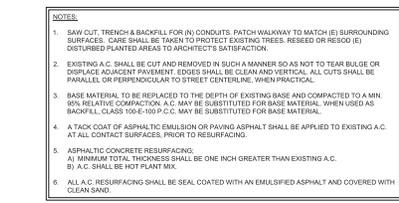
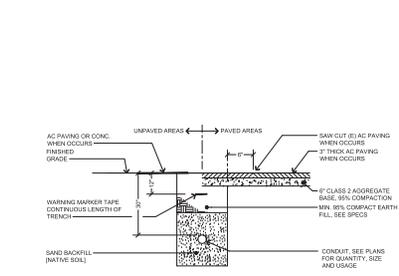
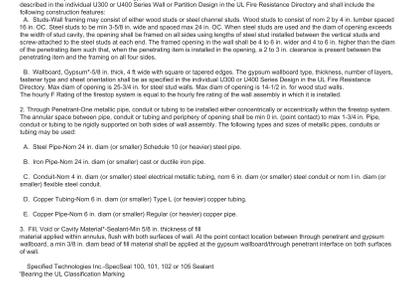
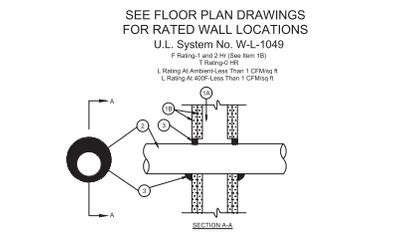
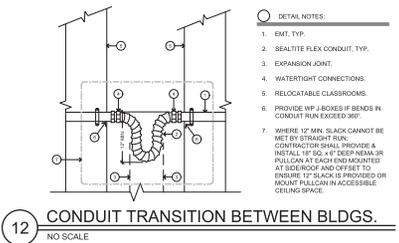
**FIRE ALARM PLANS - PORTABLES**

**FIRE ALARM UPGRADE  
SUMMERDALE ELEMENTARY SCHOOL  
1100 SUMMERDALE RD., SAN JOSE, CA 95132  
BERRYSSA UNION SCHOOL DISTRICT**

REVISIONS	NO.	ITEM	DATE

DRAWN BY: F.S.  
 CHECKED BY: N.A.  
 SFA JOB NO: 22094  
 DATE: 03/29/2023

**FA4.2**



(ISA STAMP AREA)



ARUN CONSULTING ENGINEERS  
 404 W. Franklin St. Suite 108 Berkeley, CA 94709  
 415.863.1212 Fax: 415.863.1213  
 www.arun-engineers.com

PROJECT: 220414  
 FIRE ALARM UPGRADE  
 SUMMERSDALE ELEMENTARY SCHOOL  
 1100 SUMMERSDALE RD., SAN JOSE, CA 95122  
 BERRYESSA UNION SCHOOL DISTRICT

REVISIONS:  
 NO. ITEM DATE  
 DSA REVISION: 03/28/22

DRAWN BY: F.S.  
 CHECKED BY: N.A.  
 SFA JOB NO.: DATE: 03/28/2022  
 220414

FA5.1



* BUILDING CODE ANALYSIS				
BUILDING	CONSTRUCTION TYPE OCCUPANCY TYPE	AREA (SQ.FT.)	ALLOWABLE (SQ.FT.)	# OF STORIES
BUILDING A	V-B / E	5,202	9,500	1 NON SPRINKLER
BUILDING B	V-B / E	6,707	9,500	1 NON SPRINKLER
BUILDING C	V-B / E	7,520	9,500	1 NON SPRINKLER
BUILDING D	V-B / E	7,426	9,500	1 NON SPRINKLER
BUILDING E	V-HR / B	5,600	9,000	1 NON SPRINKLER
BUILDING F	V-HR / A2.1.E	6,553	11,288	1 NON SPRINKLER
PORTABLES (P1 + P2)	V-B / E	1,300	9,500	1 NON SPRINKLER

\* NO OCCUPANCY CHANGE, SIGNIFICANT ALTERATION, OR INCREASE IN SQUARE FOOTAGE IS PROPOSED FOR THIS PROJECT. SCOPE OF WORK BUILDINGS DO NOT REQUIRE THE ADDITION OF SPRINKLERS. EXISTING BUILDING CONSTRUCTION TYPE WILL BE MAINTAINED.

**PROJECT SUMMARY**  
CAMPUS WIDE FIRE ALARM SYSTEM REPLACEMENT.

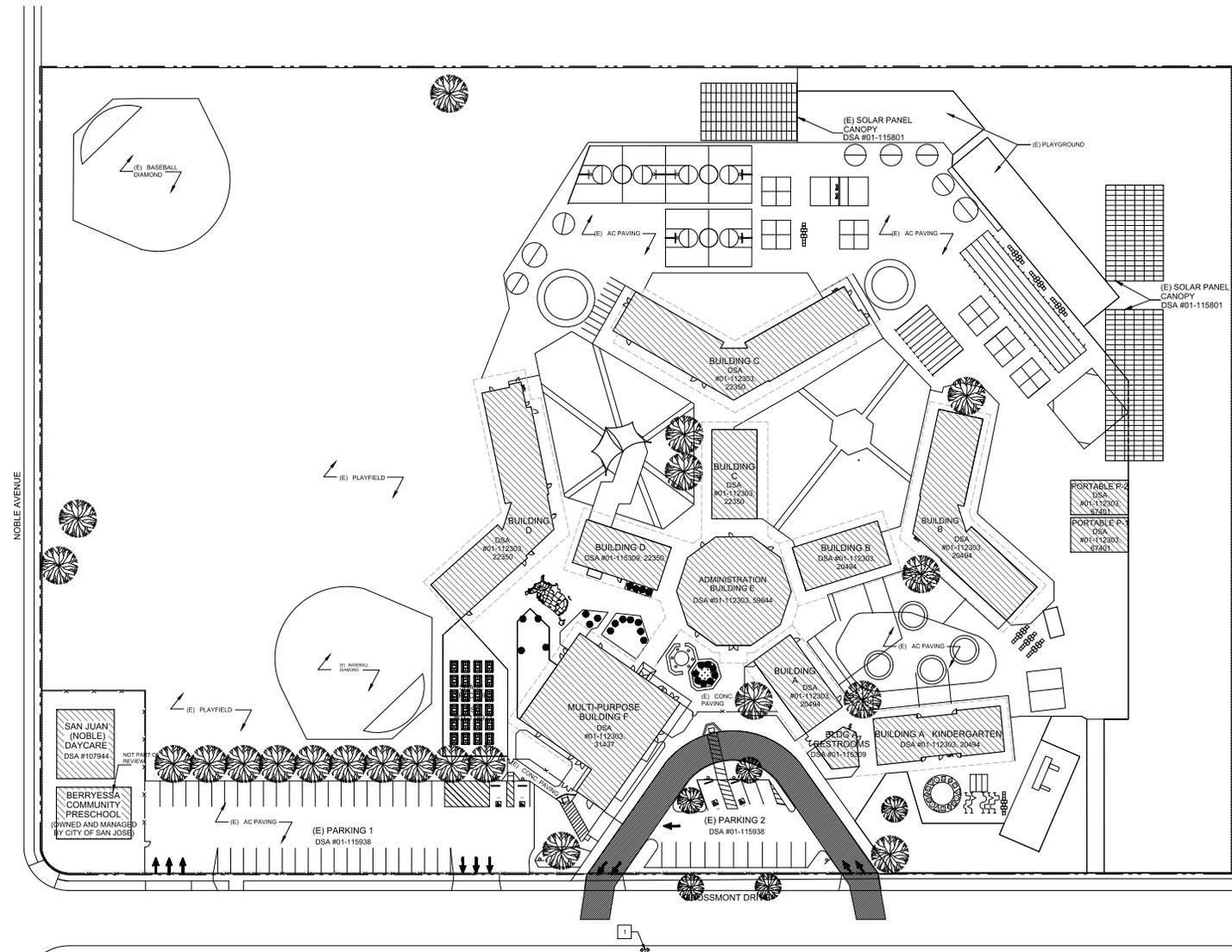
**GENERAL NOTES**  
A. THIS SHEET IS FOR FIRE LIFE SAFETY CODE RELATED ITEMS.  
B. REFER TO FIRE ALARM DRAWINGS FOR EXTENT OF OTHER RELATED WORK.

**SITE PLAN - FIRE LIFE SAFETY NOTES**

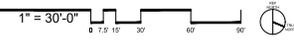
1. EXISTING FIRE HYDRANT.

**GRAPHIC KEY**

- - - - - EXISTING PROPERTY LINE
- - - - - ROOF OVERHANG
- - - - - CHAIN LINK FENCE
- - - - - DECORATIVE FENCE
- ▨ EXISTING BUILDING
- ▨ FIRE DEPARTMENT ACCESS  
FIRE DEPARTMENT ACCESS DRIVE  
WALL AND PARTIAL FOR ALL USES
- ⊕ (E) FIRE HYDRANT
- ⬇ (E) SIGN



1 SITE PLAN - FIRE LIFE SAFETY



**SITE PLAN  
FIRE LIFE SAFETY**

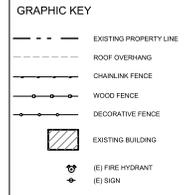
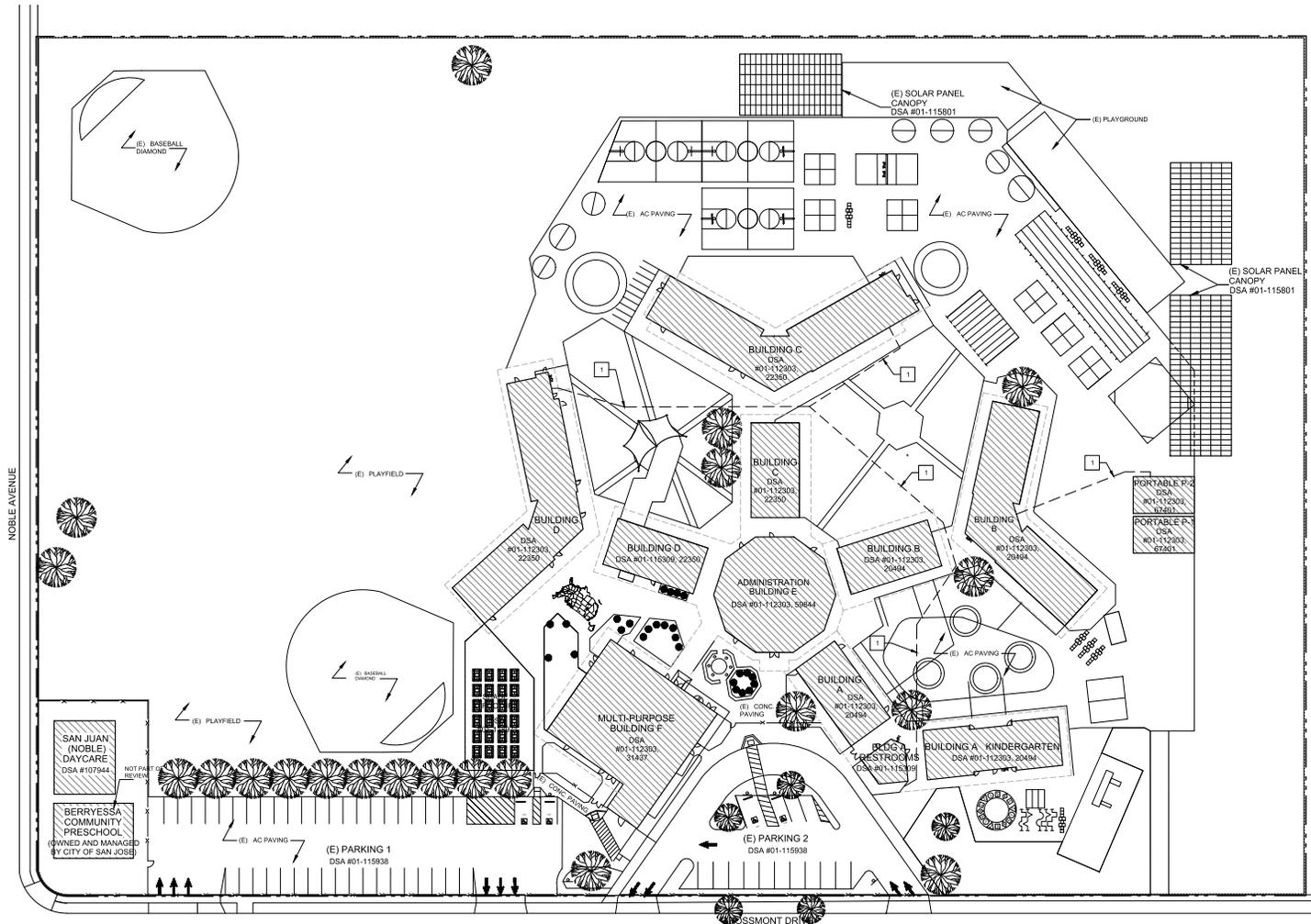
FIRE ALARM SYSTEM UPGRADE  
NOBLE ELEMENTARY SCHOOL  
3486 GROSSMONT DRIVE, SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

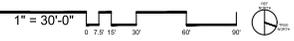
DRAWN BY: RML  
CHECKED BY: M.B.  
SFA JOB NO.: DATE:  
22084 04/03/2023

**GENERAL NOTES**  
 A. REFER TO FIRE ALARM DRAWINGS FOR EXTENT OF OTHER RELATED WORK.  
 B. ALL EXISTING EXPOSED ELECTRICAL AND LOW VOLTAGE ROUTING REMOVED AS PART OF THIS SCOPE OF WORK IS TO HAVE THE SUB-STRAIGHT PATCHED, AS NEEDED, TO MATCH ADJACENT SURFACES IN MATERIAL AND FINISH.

**NEW SITE PLAN NOTES**  
 1. (N) TRENCHING FOR FIRE ALARM CONDUITS, SAW CUT AND REMOVE AC PAVING AND/OR CONCRETE AS REQUIRED. SEE FIRE ALARM DRAWINGS FOR MORE INFORMATION AND DETAIL. SEE S-1 AND S-4 & S-5A(1) FOR TRENCHING AND PATCHBACK, FINISH TO MATCH ADJACENT SURFACES.



1 SITE PLAN



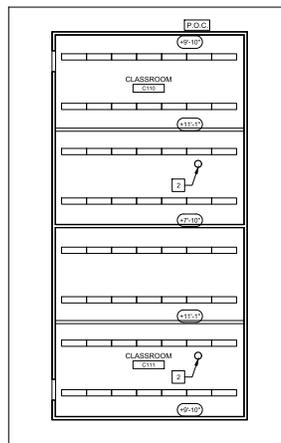
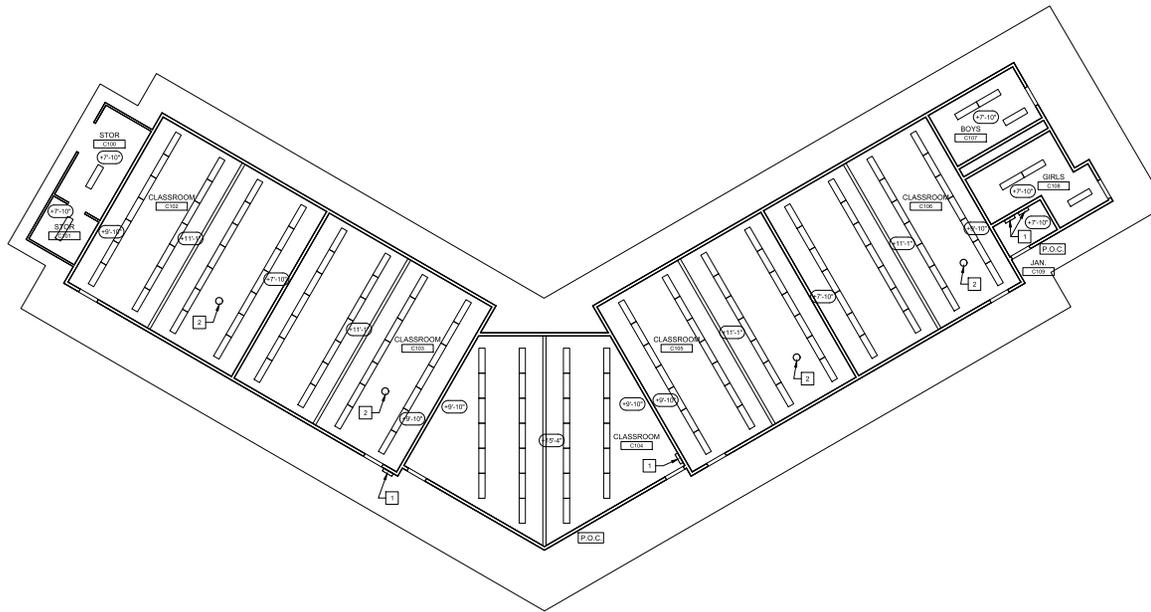
**SITE PLAN**

FIRE ALARM SYSTEM UPGRADE  
 NOBLE ELEMENTARY SCHOOL  
 3466 GROSSMONT DRIVE, SAN JOSE, CA 95132  
 BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

DRAWN BY: RNL  
 CHECKED BY: M.B.  
 SFA JOB NO: 22084 DATE: 04/03/2023





1 REFLECTED CEILING PLAN BLDG. C



GENERAL NOTES

- A. ALL CEILING / ROOF FRAMING TO HAVE R-30 INSULATION
- B. ALL EXISTING EXPOSED ELECTRICAL AND LOW VOLTAGE ROUTING REMOVED AS PART OF THIS SCOPE OR WORK IS TO HAVE THE SUB STRAIGHT PATCHED, AS NEEDED, TO MATCH EXISTING ADJACENT SURFACES IN MATERIAL AND FINISH.
- C. CONTRACTOR TO PAINT ALL (N) CONDUITS, PULL CANS, ETC. TO MATCH BUILDING, TYP.

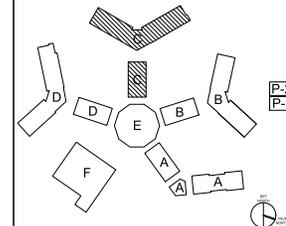
REFLECTED CEILING PLAN NOTES

- 1. SEE FIRE ALARM PLANS FOR PANEL LOCATIONS AND TYPES. WHERE DEMO AND NEW WORK OCCUR, PATCH AND REPAIR TO MATCH EXISTING ADJACENT.
- 2. PROVIDE AND INSTALL HEAT DETECTOR BELOW FLOOR LEVEL INSIDE CRAWL SPACE AREA. SEE FIRE ALARM PLANS FOR MORE INFORMATION.

GRAPHIC KEY

- (E) 1 HR RATED WALL
- (N) POINT OF CONNECTION, SEE FIRE ALARM DRAWINGS

BUILDING KEY

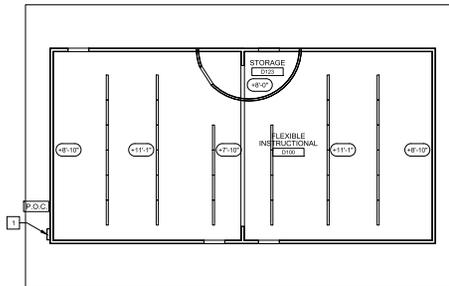
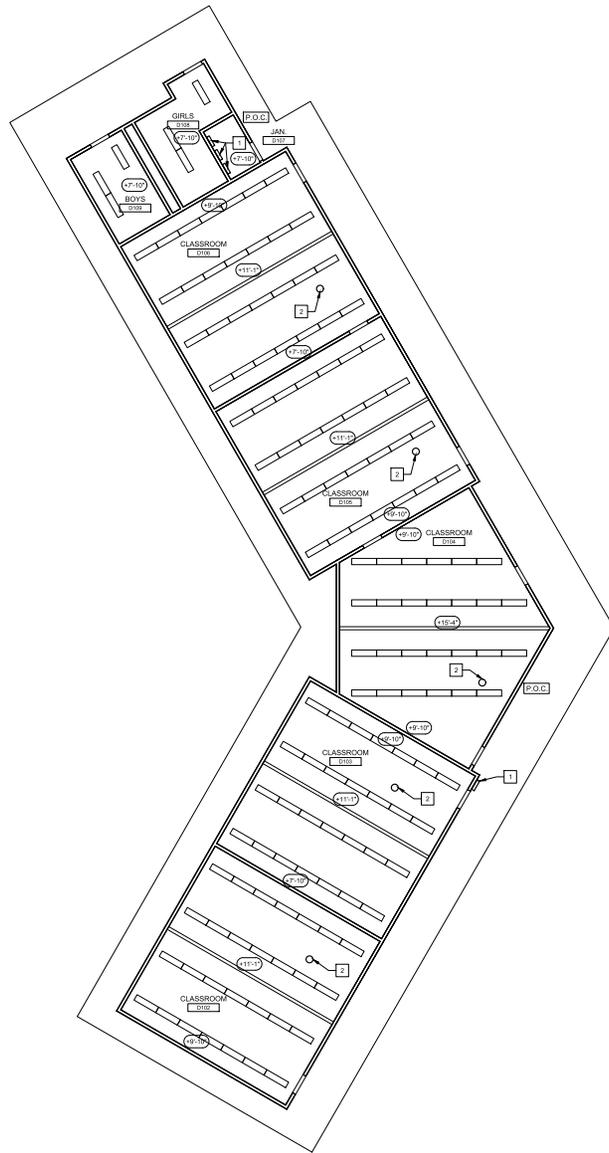


REFLECTED CEILING PLAN  
BUILDING C

REVISIONS NO.	ITEM	DATE
P-2		
P-1		

DRAWN BY: \_\_\_\_\_ R.M.  
CHECKED BY: \_\_\_\_\_ M.B.  
SFA JOB NO: 22084 DATE: 06/03/2023

FIRE ALARM SYSTEM UPGRADE  
NOBLE ELEMENTARY SCHOOL  
3466 GROSSMONT DRIVE, SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT



GENERAL NOTES

- A. ALL CEILING/ROOF FRAMING TO HAVE R-30 INSULATION
- B. ALL EXISTING EXPOSED ELECTRICAL AND LOW VOLTAGE ROUTING REMOVED AS PART OF THIS SCOPE OR WORK IS TO HAVE THE SUB-STRAIT PATCHED, AS NEEDED, TO MATCH EXISTING ADJACENT SURFACES IN MATERIAL AND FINISH.
- C. CONTRACTOR TO PAINT ALL (N) CONDUITS, PULL CANS, ETC. TO MATCH BUILDING TYP.

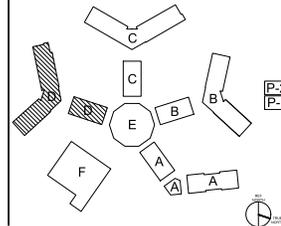
REFLECTED CEILING PLAN NOTES

- 1. SEE FIRE ALARM PLANS FOR PANEL LOCATIONS AND TYPES. WHERE DEMO AND NEW WORK OCCUR, PATCH AND REPAIR TO MATCH EXISTING ADJACENT.
- 2. PROVIDE AND INSTALL HEAT DETECTOR BELOW FLOOR LEVEL INSIDE CRAWL SPACE AREA. SEE FIRE ALARM PLANS FOR MORE INFORMATION.

GRAPHIC KEY

- (E) 1-HR RATED WALL
- P.O.C. (N) POINT OF CONNECTION. SEE FIRE ALARM DRAWINGS

BUILDING KEY



1 REFLECTED CEILING PLAN BLDG. D

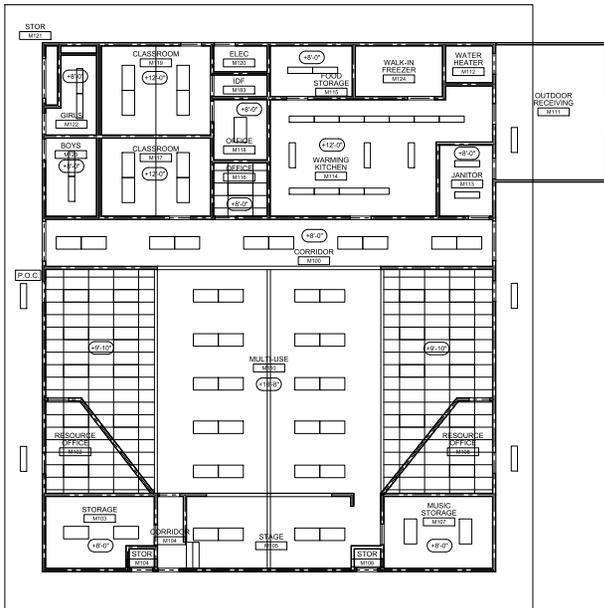
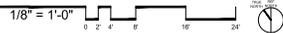


REFLECTED CEILING PLAN  
BUILDING D  
FIRE ALARM SYSTEM UPGRADE  
NOBLE ELEMENTARY SCHOOL  
3466 GROSSMONT DRIVE, SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

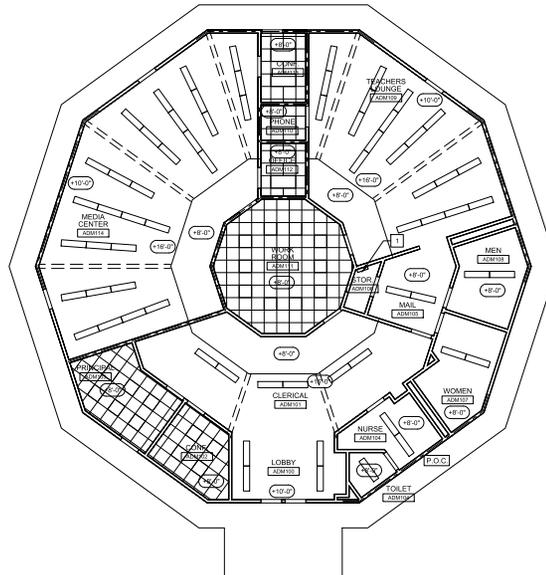
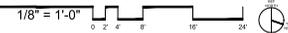
REVISIONS NO.	ITEM	DATE
P-2		
P-1		

DRAWN BY: R.M.  
CHECKED BY: M.B.  
SFA JOB NO: 22084 DATE: 04/03/2023

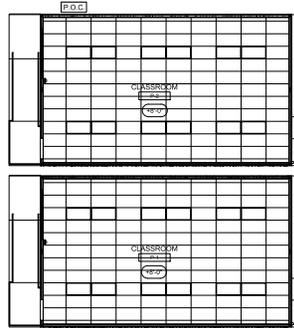
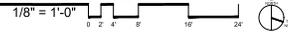
2 REFLECTED CEILING PLAN BLDG. F



1 REFLECTED CEILING PLAN BLDG. E



3 REFLECTED CEILING PLAN PORTABLES



GENERAL NOTES

- A. ALL CEILING / ROOF FRAMING TO HAVE R-30 INSULATION
- B. ALL EXISTING EXPOSED ELECTRICAL AND LOW VOLTAGE ROUTING REMOVED AS PART OF THIS SCOPE OR WORK IS TO HAVE THE SUB STRAIGHT PATCHED, AS NEEDED, TO MATCH EXISTING ADJACENT SURFACES IN MATERIAL AND FINISH.
- C. CONTRACTOR TO PAINT ALL (N) CONDUITS, PULL CANS, ETC. TO MATCH BUILDING, TYP.

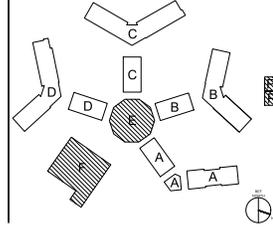
REFLECTED CEILING PLAN NOTES

- 1. SEE FIRE ALARM PLANS FOR PANEL LOCATIONS AND TYPES. WHERE DEMO AND NEW WORK OCCUR, PATCH AND REPAIR TO MATCH EXISTING ADJACENT.

GRAPHIC KEY

- (E) 1 HR RATED WALL
- P.O.C. (N) POINT OF CONNECTION, SEE FIRE ALARM DRAWINGS

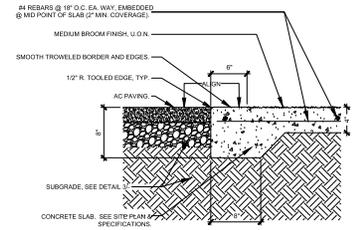
BUILDING KEY



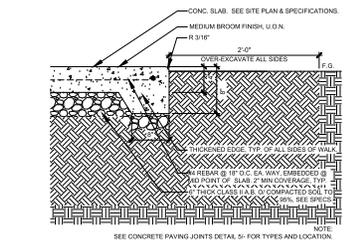
REFLECTED CEILING PLAN  
 BUILDINGS E, F & PORTABLES  
 FIRE ALARM SYSTEM UPGRADE  
 NOBLE ELEMENTARY SCHOOL  
 3466 GROSSMONT DRIVE, SAN JOSE, CA 95132  
 BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

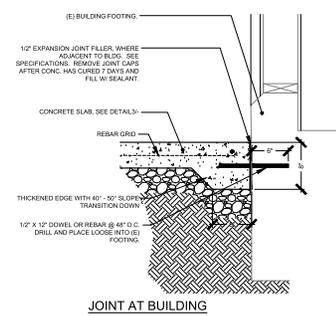
DRAWN BY: R.M.  
 CHECKED BY: M.B.  
 SFA JOB NO: 22084 DATE: 06/03/2023



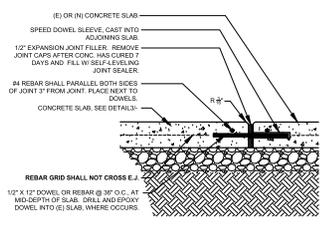
4 ASPHALT / CONCRETE JOINT  
1-1/2"=1'-0"



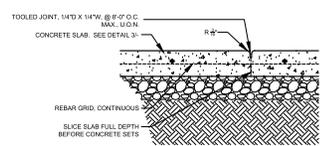
3 EDGE OF CONC. PAVING  
1-1/2"=1'-0"



JOINT AT BUILDING



EXPANSION JOINT



TOOLED JOINT

5 CONCRETE PAVING JOINTS  
1-1/2"=1'-0"



TYPICAL DETAILS

FIRE ALARM SYSTEM UPGRADE  
NOBLE ELEMENTARY SCHOOL  
3466 GROSSMONT DRIVE, SAN JOSE, CA 95132  
BERRYESSA UNION SCHOOL DISTRICT

REVISIONS NO.	ITEM	DATE

DRAWN BY: RWL  
CHECKED BY: M.B.  
SFA JOB NO.: 22084 DATE: 04/03/2023





NO. DATE  
 REVISIONS

NOBLE ELEMENTARY SCHOOL  
 3466 GLOSSMONT DRIVE, SAN JOSE, CA 95132  
 BERRYESSA UNION SCHOOL DISTRICT



**LEGEND**

TYPE A - DENOTES INITIAL NOTIFICATION APPLIANCE CIRCUIT (PAIR OF CROSSSWITCHES INDICATE THE NUMBER OF PAPER).

TYPE B - DENOTES INITIAL NOTIFICATION APPLIANCE CIRCUIT (PAIR OF P12 AND P13 CROSSSWITCHES INDICATE THE NUMBER OF PAPER).

TYPE C - DENOTES AUDIO NOTIFICATION APPLIANCE CIRCUIT (PAIR OF P12 AND P13 CROSSSWITCHES INDICATE THE NUMBER OF PAPER).

TYPE D - DENOTES 2 WIRE SPONGE CELL FOR THE ALARM USE (CROSSSWITCHES INDICATE THE NUMBER OF PAPER).

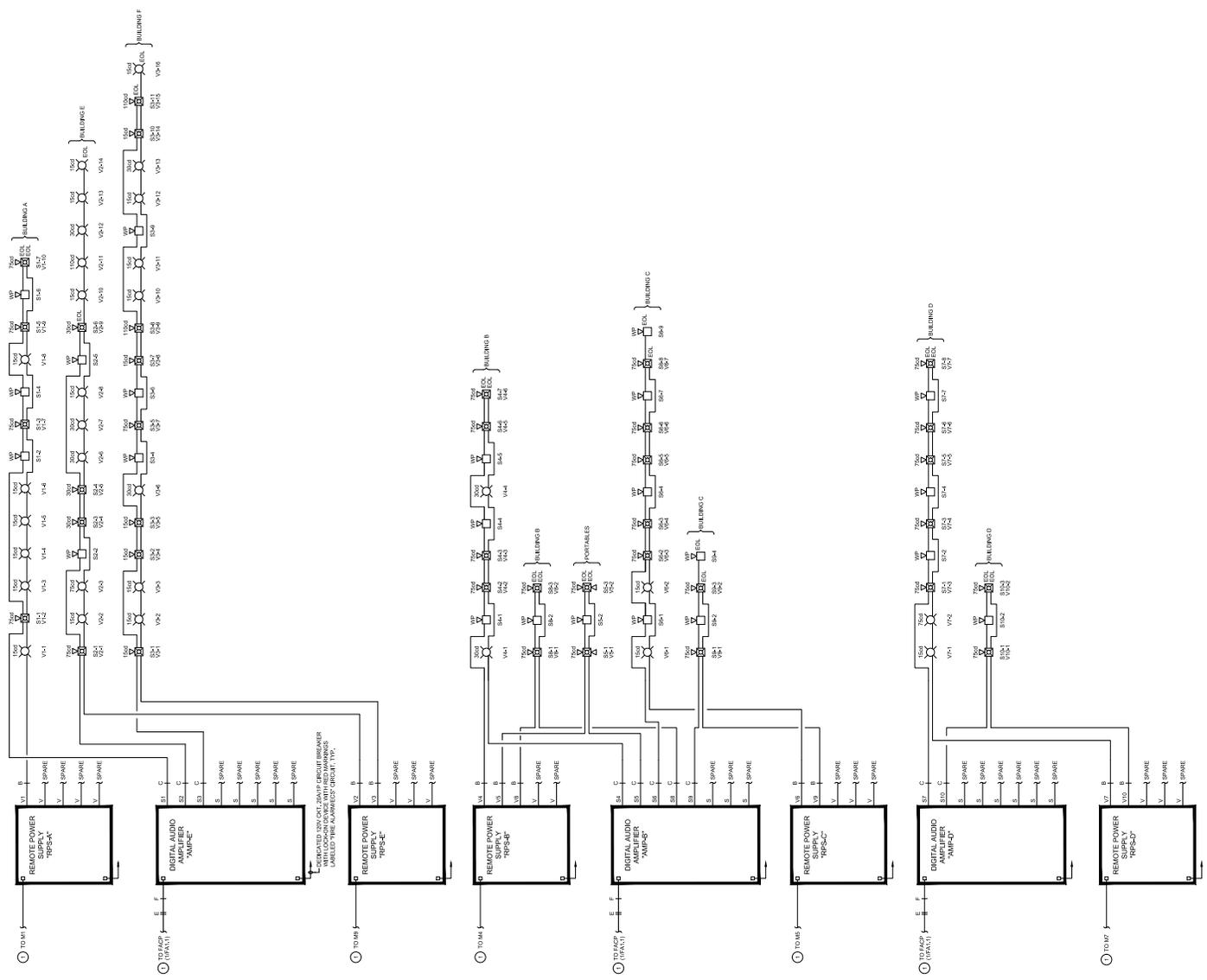
TYPE E - DENOTES SYSTEM BUS (BUS) CONNECTION, UNLESS OTHERWISE INDICATED. THESE CROSSSWITCHES INDICATE THE NUMBER OF PAPER.

TYPE F - DENOTES 2 WIRE SPONGE CELL FOR THE ALARM USE (CROSSSWITCHES INDICATE THE NUMBER OF PAPER).

TYPE G - DENOTES 2 WIRE CONSTANT POWER CIRCUITS FOR DUCT OTHER THAN NOTIFICATION (PAIRS OF P12 AND P13 CROSSSWITCHES INDICATE THE NUMBER OF PAPER).

TYPE H - DENOTES RELAY TIME FOR CALC. (PROVIDE IN STANDAED PLANS)

○ SIGNAL NOISE  
 L. SEE SHEET P.11.



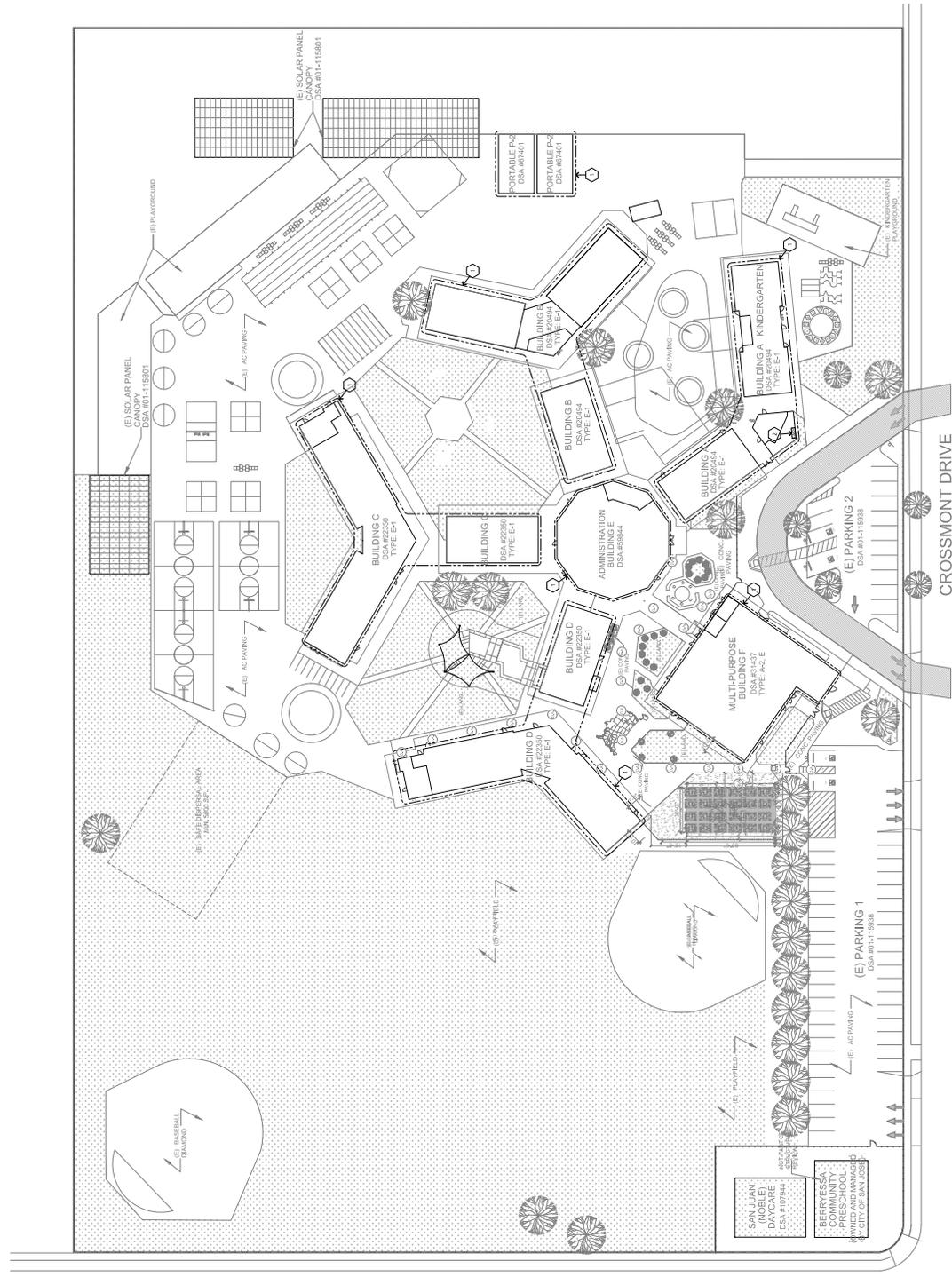


**SHEET NOTES**

1. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
2. CONTRACTOR SHALL DEMOLISH FIRE ALARM CONTROL PANEL COMPLETE PER GENERAL DEMOLITION NOTES ON THIS SHEET.

**GENERAL DEMOLITION NOTES**

- A. CONTRACTOR SHALL DEMOLISH THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- B. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- C. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- D. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- E. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- F. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- G. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- H. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- I. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- J. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- K. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- L. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- M. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.
- N. CONTRACTOR SHALL VERIFY THE EXISTING ELECTRICAL SYSTEMS AND DEMOLITION QUANTITIES OF ELECTRICAL TO BE REMOVED AS SPECIFIED BY THE REQUIREMENTS OF THE PROJECT.



**1 FIRE ALARM DEMOLITION PLAN**  
SCALE: 1"=30'-0"

SFA

Alstam Engineers  
Project No. 22-04-00

DATE: 08/11/2022  
CHECKED BY: SFA/PTW/NO  
DRAWN BY: SFA/PTW/NO

**FIRE ALARM DEMOLITION PLAN**

**NOBLE ELEMENTARY SCHOOL**  
3466 GROSSMONT DRIVE, SAN JOSE, CA 95132

BERRESSA UNION SCHOOL DISTRICT

DATE: 08/11/2022  
CHECKED BY: SFA/PTW/NO  
DRAWN BY: SFA/PTW/NO



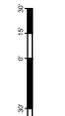
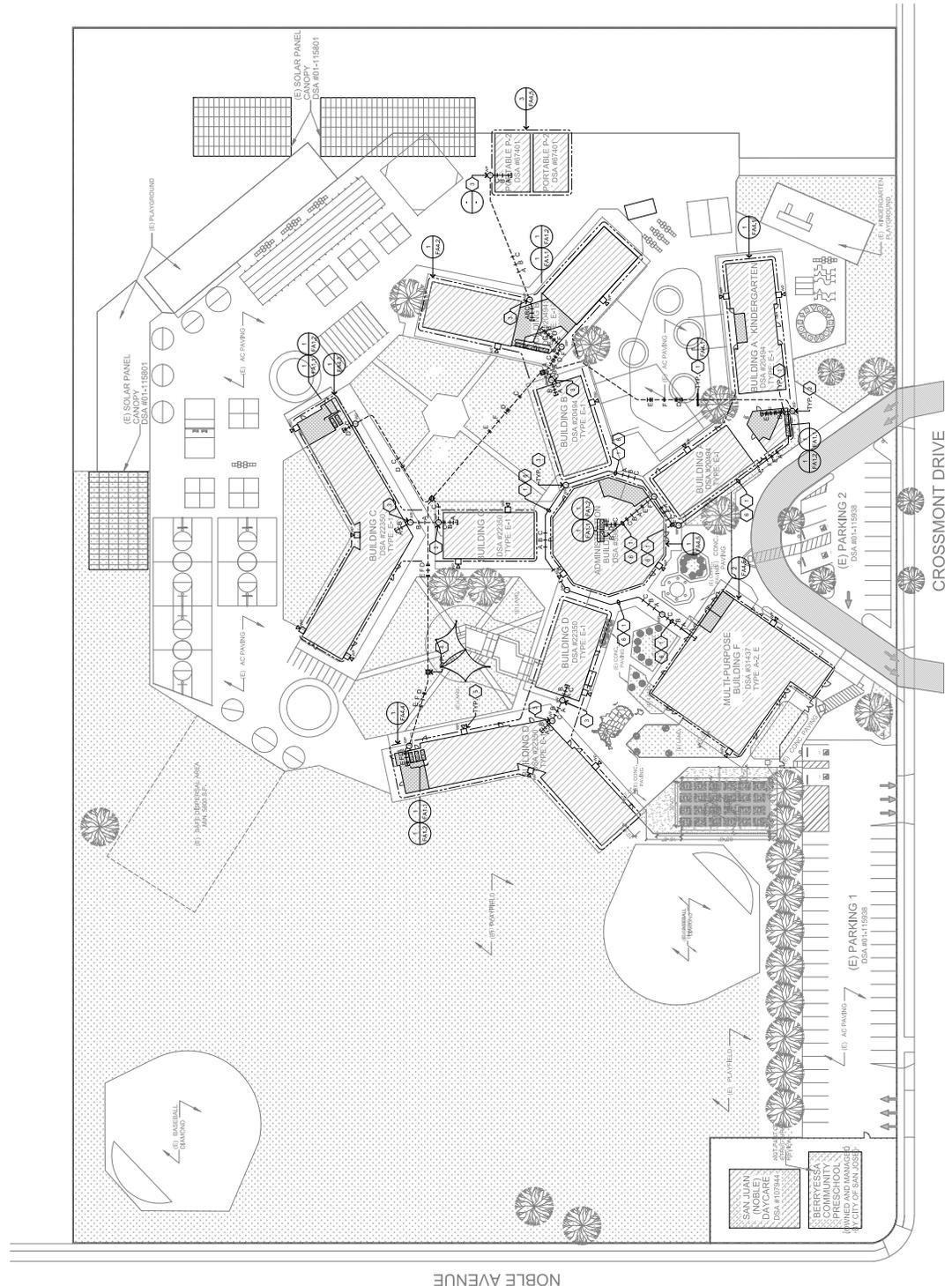
DSA STAMP AREA

NO. ITEM DATE

- SHEET NOTES**
1. PROVIDE & INSTALL 7/8" WITH FIRE ALARM CABLES.
  2. UNLESS OTHERWISE NOTED, PROVIDE & INSTALL 1/2" DIA. 4" DEEP, NEMA 3R PULLBOX.
  3. PROVIDE & INSTALL 1" DIA. 6" DEEP, NEMA 3R PULLBOX.
  4. PROVIDE & INSTALL IN-PURGE CROSBY #10 PULLBOX WITH 1/2" LABELED "FIRE ALARM".
  5. FOR REFERENCE ONLY.
  6. ROUTE FIRE ALARM CABLE OUTDOOR.

- GENERAL NOTES**
- A. CONTRACTOR SHALL LOCATE ALL (E) INTERFERENCES WITH THIS PLAN, TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCH DEPTH SHALL BE AS SHOWN. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.
  - B. CONTRACTOR SHALL REPAIR REFINISH SURFACE WHERE TRENCHING OCCURS TO EQUAL OR BETTER THAN EXISTING CONDITIONS.
  - C. ALL TRENCHES SHALL BE PROTECTED WITH 4" DEEP, 12" DIA. CONCRETE WALLS. WALLS SHALL BE FOR CONDUIT ROUTINGS AS NECESSARY. CONDUIT MUST BE EXPOSED TO THE SURFACE OF THE TRENCH. CONTRACTOR SHALL COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS.

- USE LEGEND**
- TYPE A - DENOTES NOTIFICATION APPLIANCE CIRCUIT. CIRCLES INDICATE THE NUMBER OF PARS.
- TYPE B - DENOTES NOTIFICATION APPLIANCE CIRCUIT. CIRCLES INDICATE THE NUMBER OF PARS.
- TYPE C - DENOTES NOTIFICATION APPLIANCE CIRCUIT. CIRCLES INDICATE THE NUMBER OF PARS.
- TYPE D - DENOTES 1" DIA. OF RIGID BRASS CABLE FOR FIRE ALARM. CIRCLES INDICATE THE NUMBER OF PARS.
- TYPE E - DENOTES SYSTEM BUS CONNECTIONS. CIRCLES INDICATE THE NUMBER OF PARS.
- TYPE F - DENOTES SYSTEM BUS CONNECTIONS. CIRCLES INDICATE THE NUMBER OF PARS.
- TYPE G - DENOTES SYSTEM BUS CONNECTIONS. CIRCLES INDICATE THE NUMBER OF PARS.
- TYPE H - DENOTES SYSTEM BUS CONNECTIONS. CIRCLES INDICATE THE NUMBER OF PARS.



1 OVERALL FIRE ALARM SITE PLAN  
SCALE: 1"=30'-0"



**SHEET NOTES**

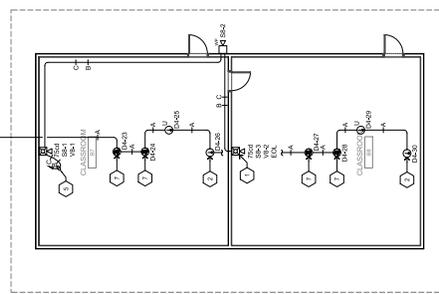
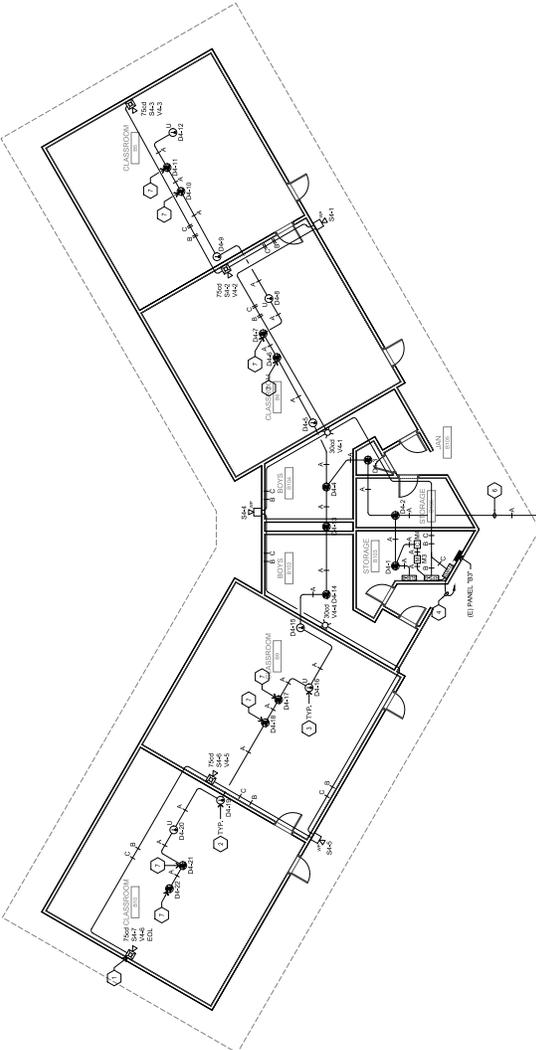
1. PROVIDE & INSTALL ENGRAVED LUMINOUS MARKING ON FACE OF DEVICE BEARING TEXT.
2. MOUNT TO STRUCTURE IN SUFFICIENTLY ACCESSIBLE CEILING SPACE.
3. PROVIDE & INSTALL HEAT DETECTOR BELOW FLOOR LEVEL IN CEILING CHIMNEY AREA.
4. INSTALL 20' WIRE MESH SCREEN WITH LOCKING CAP ON END OF WIRE MESH SCREEN. LABEL THE SCREEN WITH "SCREEN" AND "20' WIRE MESH SCREEN WITH LOCKING CAP ON END OF WIRE MESH SCREEN".
5. HOUSING TO RECEIVE POWER SUPPLY, TYPICAL AND/OR ORBITAL AUTO AMPLIFIER "AMP-2".
6. SEE PLAN FOR CONDUIT TRANSITION.
7. MOUNT DEVICE WITHIN 2' OF PEAK OF CEILING.

**GENERAL NOTES**

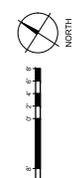
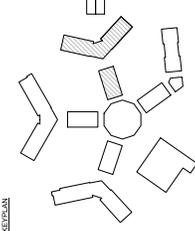
- A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING AND TAKE CAUTION TO AVOID DAMAGE DURING TRENCHING. HAND TRENCHING SHALL BE USED FOR ALL TRENCHING UNLESS OTHERWISE SPECIFIED. ALL TRENCHING SHALL BE PROTECTED BY A COVER OR CHARGE TO OWNER.
- B. ALL OUTDOOR SPEAKERS SHALL BE 2 WATT WATERS WATERS.
- C. ALL OUTDOOR SPEAKERS SHALL BE 2 WATT WATERS WATERS. IT IS THE RESPONSIBILITY OF ALL DETECTORS LOCATED IN CEILING AND ABOVE CEILING SPACES FOR ACCESS TO MAIN FLOOR DETECTORS.
- D. CONTRACTOR SHALL VERIFY ALL DETECTOR SPACES WHERE TRENCHING OCCURS TO BE EQUAL OR BETTER THAN EXISTING CONDITIONS.
- E. SEAL ALL EXTERIOR INTERIOR BUILDING PENETRATIONS, CUT AND PATCH COMPARTMENTS TO MATCH BUILDING FINISH. COORDINATE WITH DISTRICT & ARCHITECT FOR EXACT REQUIREMENTS.
- F. OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED. SEE 907.2.2.1.1.

**LEGEND**

- TYPE A - DENOTES INDICATING DETECTOR OR DETECTOR COORDINATE (X, Y) TO THE CENTER OF THE DETECTOR. THE NUMBER OF DETECTORS IS INDICATED BY THE NUMBER OF PAGES.
- TYPE B - DENOTES INDICATING DETECTOR OR DETECTOR COORDINATE (X, Y) TO THE CENTER OF THE DETECTOR. THE NUMBER OF PAGES IS INDICATED BY THE NUMBER OF PAGES.
- TYPE C - DENOTES INDICATING DETECTOR OR DETECTOR COORDINATE (X, Y) TO THE CENTER OF THE DETECTOR. THE NUMBER OF PAGES IS INDICATED BY THE NUMBER OF PAGES.
- TYPE D - DENOTES INDICATING DETECTOR OR DETECTOR COORDINATE (X, Y) TO THE CENTER OF THE DETECTOR. THE NUMBER OF PAGES IS INDICATED BY THE NUMBER OF PAGES.
- TYPE E - DENOTES INDICATING DETECTOR OR DETECTOR COORDINATE (X, Y) TO THE CENTER OF THE DETECTOR. THE NUMBER OF PAGES IS INDICATED BY THE NUMBER OF PAGES.
- TYPE F - DENOTES INDICATING DETECTOR OR DETECTOR COORDINATE (X, Y) TO THE CENTER OF THE DETECTOR. THE NUMBER OF PAGES IS INDICATED BY THE NUMBER OF PAGES.
- TYPE G - DENOTES INDICATING DETECTOR OR DETECTOR COORDINATE (X, Y) TO THE CENTER OF THE DETECTOR. THE NUMBER OF PAGES IS INDICATED BY THE NUMBER OF PAGES.
- TYPE H - DENOTES INDICATING DETECTOR OR DETECTOR COORDINATE (X, Y) TO THE CENTER OF THE DETECTOR. THE NUMBER OF PAGES IS INDICATED BY THE NUMBER OF PAGES.
- TYPE I - DENOTES INDICATING DETECTOR OR DETECTOR COORDINATE (X, Y) TO THE CENTER OF THE DETECTOR. THE NUMBER OF PAGES IS INDICATED BY THE NUMBER OF PAGES.
- TYPE J - DENOTES INDICATING DETECTOR OR DETECTOR COORDINATE (X, Y) TO THE CENTER OF THE DETECTOR. THE NUMBER OF PAGES IS INDICATED BY THE NUMBER OF PAGES.



KEY PLAN



1 FIRE ALARM PLAN - BUILDING B  
SCALE: 1/8"=1'-0"



**ALAN M. CONROY ENGINEERS**  
 PROJECT NO. 22-04-00  
 404 W. PULASKI ST. # 201 - 484-6338  
 1000 CALIFORNIA STREET, SUITE 1000, SAN JOSE, CA 95128

**ALAN M. CONROY ENGINEERS**  
 PROJECT NO. 22-04-00  
 404 W. PULASKI ST. # 201 - 484-6338  
 1000 CALIFORNIA STREET, SUITE 1000, SAN JOSE, CA 95128

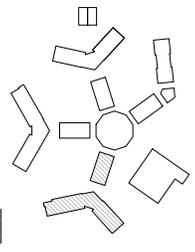
**FIRE ALARM PLAN - BUILDING B**  
 NO. \_\_\_\_\_ DATE \_\_\_\_\_  
 REVISIONS  
 NO. \_\_\_\_\_ ITEM \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 SFA APPROV: \_\_\_\_\_  
 09/20/2022

FA4.2



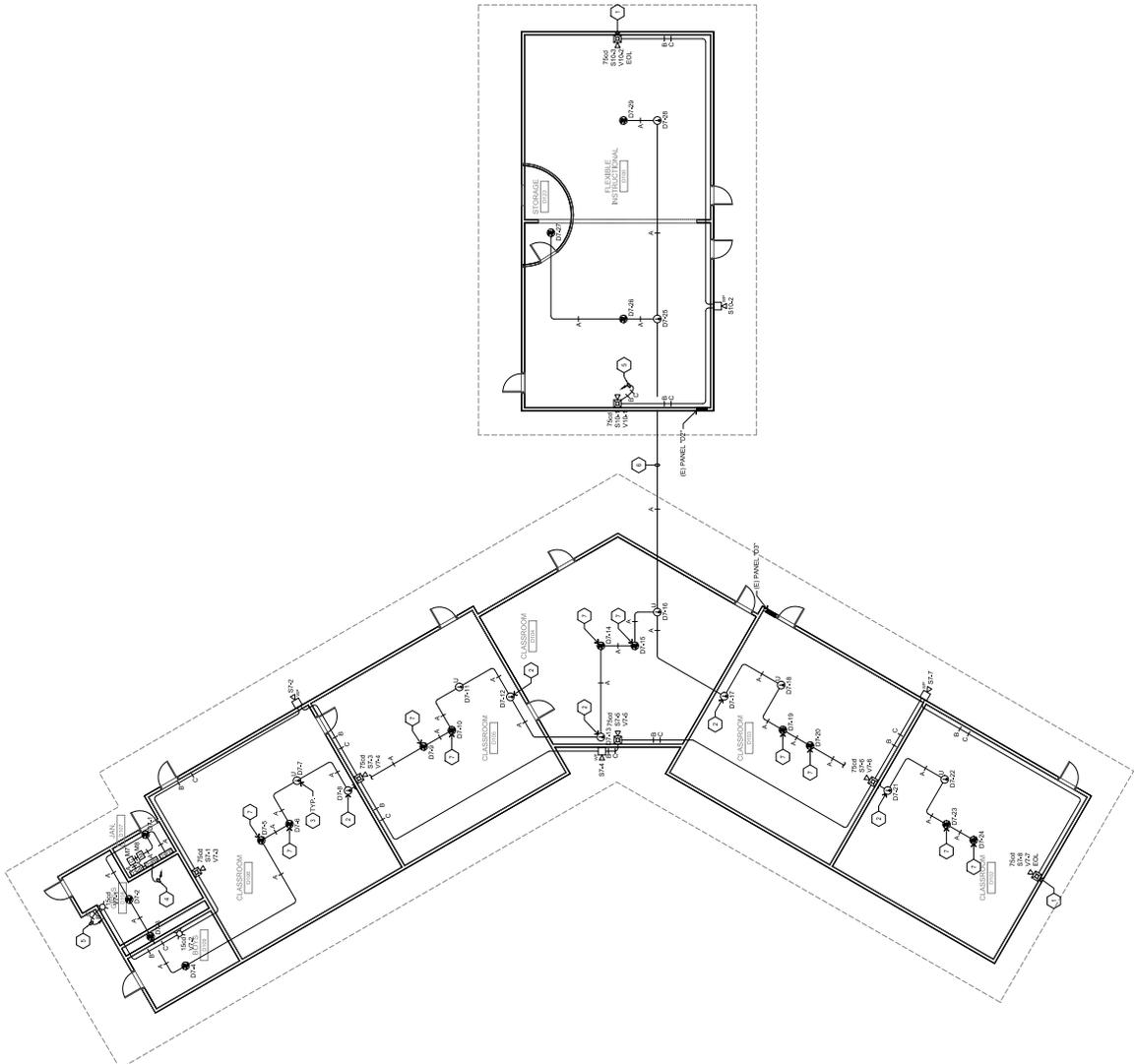


CLASS ROOM AREA



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

1 FIRE ALARM PLAN - BUILDING D



- SHEET NOTES**
1. PROVIDE & INSTALL ENGRAVED LUMINOUS MARKING ON FACE OF DEVICE BEARING "EXIT".
  2. MOUNT TO STRUCTURE IN SUFFICIENTLY ACCESSIBLE CEILING SPACE.
  3. PROVIDE & INSTALL HEAT DETECTOR BELOW FLOOR LEVEL IN CEILING CHASE AREA.
  4. PROVIDE & INSTALL PHOTOVOLTAIC CELL DETECTOR WITH WIRE MOUNTING ASSEMBLY. THE DETECTOR SHALL BE MOUNTED TO THE CEILING WITH WIRE MOUNTING ASSEMBLY. THE DETECTOR SHALL BE MOUNTED TO THE CEILING WITH WIRE MOUNTING ASSEMBLY. THE DETECTOR SHALL BE MOUNTED TO THE CEILING WITH WIRE MOUNTING ASSEMBLY.
  5. HOUSING TO DISMOUNT POWER SUPPLY, TYPICALLY AND OPTICAL ALARM AMPLIFIER "AMP-C".
  6. SEE FLOOR FOR CONDUIT TRANSITION.
  7. MOUNT DEVICE WITHIN 2' OF RISK OF CEILING.

**GENERAL NOTES:**

- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL FIRE ALARM AND SIGNAL ASSOCIATION (NFPA) STANDARDS, INCLUDING NFPA 72, NATIONAL FIRE ALARM AND SIGNAL CODE, LATEST EDITION. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL FIRE ALARM AND SIGNAL ASSOCIATION (NFPA) STANDARDS, INCLUDING NFPA 72, NATIONAL FIRE ALARM AND SIGNAL CODE, LATEST EDITION.
- B. ALL INDOOR SPEAKERS SHALL BE 5 WATTS RATED MINIMUM.
- C. DETECTOR SHALL PROVIDE & INSTALL ACCESS PANELS AS NECESSARY FOR ALL DETECTOR TYPES. ACCESS PANELS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL FIRE ALARM AND SIGNAL ASSOCIATION (NFPA) STANDARDS, INCLUDING NFPA 72, NATIONAL FIRE ALARM AND SIGNAL CODE, LATEST EDITION.
- D. CONDUIT OR SMALL REPAIR PATCHES WHERE TRENCHING OCCURS TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL FIRE ALARM AND SIGNAL ASSOCIATION (NFPA) STANDARDS, INCLUDING NFPA 72, NATIONAL FIRE ALARM AND SIGNAL CODE, LATEST EDITION.
- E. SEAL ALL EXTERIOR INTERIOR BUILDING PENETRATIONS, CUT AND PATCH WALLS/CEILING FOR CONDUIT ROUTING AS NECESSARY. PATCH FINISH EXPRESSED TO MATCH EXISTING FINISHES. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS.
- F. ALARM DEVICES SHALL PROVIDE 15 DBA ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED SPACES AND BE HEARD BY ALL OCCUPANTS (SEE SECTION 21.1).

**LEGEND:**

TYPE A - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE B - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE C - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

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TYPE E - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE F - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE G - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE H - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE I - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE J - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE K - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE L - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE M - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE N - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE O - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE P - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE Q - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE R - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE S - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE T - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE U - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE V - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE W - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE X - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE Y - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.

TYPE Z - DETECTOR WITH NOTIFICATION APPLIANCE CIRCUIT. DETECTOR MAY NOT DETECT SILENTLY. OTHERS ARE DETECTORS WITH NOTIFICATION APPLIANCE CIRCUIT. CROSSMATCHES INDICATE THE NUMBER OF Pairs.



**ASAFM CONSULTING ENGINEERS**  
 PROJECT NO. 22-04-00  
 404 W. BUREAU BLVD., SUITE 200, SAN JOSE, CA 95128  
 TEL: (415) 435-1100 FAX: (415) 435-1101  
 WWW.ASAFM.COM

**FIRE ALARM PLAN - BUILDING E, F & PORTABLES**

NOBLE ELEMENTARY SCHOOL  
 3466 GROSSMONT DRIVE, SAN JOSE, CA 95128  
 BERRYSSEA UNION SCHOOL DISTRICT

DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 SFA PART NO: \_\_\_\_\_  
 2024

NO. \_\_\_\_\_ ITEM \_\_\_\_\_

FA4.5

- ### SHEET NOTES
1. PROVIDE & INSTALL UNGRADED UNIMPAVEMENT ON FACE OF DEVICE BEARING TIE.
  2. MOUNT TO STRUCTURE IN SUFFICIENTLY ACCESSIBLE CEILING SPACE.
  3. CONTRACTOR SHALL MOUNT DEVICE ABOVE ACCESSIBLE CEILING SPACE.
  4. CONTRACTOR SHALL PROVIDE 1/2" CLEARANCE TO THE REAR OF THE DEVICE. THE REAR OF THE DEVICE SHALL BE PROTECTED BY A 1/2" THICK BOARD WITH LOCKS ON EACH SIDE WITH THE HANDS AWAY FROM THE DEVICE. THE BOARD SHALL MATCH EXISTING IN AREAS WITHIN THE TYPE.
  5. THE REAR OF THE DEVICE SHALL BE PROTECTED BY A 1/2" THICK BOARD WITH LOCKS ON EACH SIDE WITH THE HANDS AWAY FROM THE DEVICE. THE BOARD SHALL MATCH EXISTING IN AREAS WITHIN THE TYPE.
  6. SEE PLAN FOR CONTINUATION/ROUTING.
  7. MOUNT DEVICE WITHIN 7' OF PEAK OF CEILING.
  8. HOMERUN TO REMOTE POWER SUPPLY, TRIPST AND DIGITAL AUDIO AMPLIFIER W/AMPLIFIER.
  9. MOUNT DEVICE IN SKYLIGHT/OPENING AREA.
  10. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
  11. HOMERUN TO ACP LOCATED IN BUILDING X; STORAGE ROOM A106.

- ### GENERAL NOTES
- A. CONTRACTOR SHALL LOCATE ALL (E) UNDERGROUND UTILITIES PRIOR TO TRENCHING NECESSARY. CONTRACTOR SHALL MAKE ALL REPAIRS TO DAMAGED UTILITIES AT NO CHARGE TO OWNER.
  - B. ALL OUTDOOR SPEAKERS SHALL BE 2 WATTS MINIMUM.
  - C. CONTRACTOR SHALL PROVIDE & INSTALL ACCESS PANELS AS NECESSARY FOR ALL INITIATION DEVICES.
  - D. CONTRACTOR SHALL REPAIR/FINISH SURFACE WHERE TRENCHING OCCURS TO EQUAL OR BETTER THAN EXISTING CONDITIONS.
  - E. WALLS/CEILING/FLOOR FINISHES SHALL BE AS NOTED. FINISHES SHALL BE EXPOSED TO THE ARCHITECT FOR EXACT REQUIREMENTS.
  - F. AUDIBLE APPLIANCES SHALL PROVIDE 15-20dB ABOVE AMBIENT NOISE LEVELS IN ALL OCCUPIED AREAS AND INTELLIGIBILITY WHERE REQUIRED (CFC 907.5.2.1.1).

- ### CABLE LEGEND
- TYPE A - DENOTES INITIATION DETECTION CIRCUITS (SMOKE, HEAT, ULTIMATE DETECTION) AS NOTED. PROVIDE (1) PAIR OF 18 AWG (18/2) UNSHIELDED COPPER WIRE (UL 1581) (TYPE FPLP) UNLESS OTHERWISE NOTED.
- TYPE B - DENOTES INITIAL NOTIFICATION APPLIANCE CHECKS (SPEAKERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF 18 AWG (18/2) UNSHIELDED COPPER WIRE (UL 1581) (TYPE FPLP) UNLESS OTHERWISE NOTED.
- TYPE C - DENOTES ADDITIONAL APPLIANCE CHECKS (SPEAKERS) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF 18 AWG (18/2) UNSHIELDED COPPER WIRE (UL 1581) (TYPE FPLP) UNLESS OTHERWISE NOTED.
- TYPE D - DENOTES (1) TIME OF RELEASE SMOKE CABLE FOR FIRE ALARM (FIRE) UNLESS OTHERWISE NOTED. PROVIDE (1) PAIR OF 18 AWG (18/2) UNSHIELDED COPPER WIRE (UL 1581) (TYPE FPLP) UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS.
- TYPE E - DENOTES SYSTEM BUS (SMB) CONNECTION. UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF 8 AWG (8/2) UNSHIELDED COPPER WIRE (UL 1581) (TYPE FPLP) UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS.
- TYPE F - DENOTES VOICE BUS (VSB) CONNECTION. UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF 8 AWG (8/2) UNSHIELDED COPPER WIRE (UL 1581) (TYPE FPLP) UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECT FOR EXACT REQUIREMENTS.
- TYPE G - DENOTES PREPARED RELAY TYPES FOR CAC. PROVIDE (1) PAIR OF 18 AWG (18/2) UNSHIELDED COPPER WIRE (UL 1581) (TYPE FPLP) UNLESS OTHERWISE NOTED. PROVIDE (1) OF 18 AWG (18/2) UNSHIELDED COPPER WIRE (UL 1581) (TYPE FPLP) UNLESS OTHERWISE NOTED.

