

LODI UNIFIED SCHOOL DISTRICT

Beckman Elementary School Fire Alarm Upgrade

**PROJECT NUMBER: 0910-8210
DSA #:02-118691
Beckman Elementary School**

ADDENDUM NO. 1

April 5, 2021

Owner: Lodi Unified School District
1305 E. Vine Street
Lodi, CA 95240

Engineer: The Engineering Enterprise
1125 High Street
Auburn, CA 95603

Project Manager: Capital Program Management, Inc.
1851 Heritage Lane, Suite 210
Sacramento, CA 95815

This Addendum has been prepared to clarify, modify, delete, or add to the drawings and/or specifications for the above referenced project, and revisions to items listed here shall supersede description thereof prior to the above stated date. All conditions not specifically referenced here shall remain the same. It is the obligation of the Prime Contractor to make subcontractors aware of any items herein that may affect submitted bids.

Acknowledge receipt of this addendum by inserting its number and date in the bidding documents. Failure to do so may subject bidder to disqualification.

All addenda items refer to the plans and specifications unless specifically noted otherwise.

TOTAL PAGES IN THIS ADDENDUM (including attachments): 17 Pages

**Beckman Elementary School
Fire Alarm Upgrade**

**PROJECT NUMBER: 0910-8210
DSA #:02-118691
Beckman Elementary School**

ADDENDUM NO. 1

PART A - BIDDING AND CONTRACT REQUIREMENTS

- 1.1 Due to the potential of running a summer school program all work may move to shift work so an add alternate for that is being requested. Delete Document 00 41 13 Bid Form and Proposal and Replace it in its entirety with Document 00 41 13 Bid Form and Proposal Addendum 1 (attachment 1.8)
- 1.2 Delete Document 00 52 13 Agreement and Replace it in its entirety with Document 00 52 13 Agreement Addendum 1 (attachment 1.9)
- 1.3 Delete Document 01 21 00 Allowance and Replace it in its entirety with Document 01 21 00 Allowance Addendum 1 (attachment 1.10)

PART B - TECHNICAL REQUIREMENTS

- 1.4 N/A

PART C - DRAWINGS

- 1.5 Delete drawing sheet FA0.01 in its entirety and replace it with drawing sheet FA0.01 Addendum 1 dated 04/01/21 (attachment 1.13)
- 1.6 Delete drawing sheet FA3.02 in its entirety and replace it with drawing sheet FA3.02 Addendum 1 dated 04/01/21 (attachment 1.14)

PART D – RESPONSES TO CONTRACTOR QUESTIONS

- 1.7 N/A

PART E – List of Attachments

- 1.8 Document 00 41 13 Bid Form and Proposal Addendum 1
- 1.9 Document 00 52 13 Agreement Addendum 1
- 1.10 Document 01 21 00 Allowance Addendum 1
- 1.11 Pre-Bid Sign In Sheet
- 1.12 Pre-Bid Agenda
- 1.13 Drawing sheet FA0.01 Addendum 1 dated 4/1/21
- 1.14 Drawing sheet FA3.02 Addendum 1 dated 4/1/21

End of Addendum

DOCUMENT 00 41 13

BID FORM AND PROPOSAL

To: Governing Board of the Lodi Unified School District ("District" or "Owner")

From: _____
(Proper Name of Bidder)

The undersigned declares that Bidder has read and understands the Contract Documents, including, without limitation, the Notice to Bidders and the Instructions to Bidders, and agrees and proposes to furnish all necessary labor, materials, and equipment to perform and furnish all work in accordance with the terms and conditions of the Contract Documents, including, without limitation, the Drawings and Specifications of Project Nos. **0910-8210** for the following project known as:

Beckman Elementary School Fire Alarm Upgrade

1. ("Project" or "Contract") and will accept in full payment for that Work the following total lump sum amount, all taxes included:

Beckman Elementary School Fire Alarm Upgrade (Project #0910-8210)

_____ Dollars	\$ _____
Base Bid	

2. **Additive / Deductive Alternates:** ADD ALTERNATE #1 will be used in the event all work must be done as shift work from 3:30pm to 11:30pm.

The Bidder's Base Bid shall **NOT** include the following Alternates(s). The District will add some or all of the following Alternate(s) amount(s) to the successful bidder's Contract, at the District's discretion.

Add Alternate #1 – Beckman Elementary School

Added cost for work from June 7, 2021 to July 23, 2021 to be done as shift work from 3:30pm to 11:30pm instead of regular hours from 7:00am to 3:30pm.

_____ Dollars	\$ _____
Additive Bid Alternate No. 1 (words)	

Beckman Elementary School
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3. Allowances: The Bidder's Base Bid shall **NOT** include the following potential Allowance(s). The District will add some or all of the following Allowance(s) amount(s) to the successful bidder's Contract, at the District's discretion. Contractor shall be permitted to invoice for Work under an Allowance in the identical structure as a Change Order.

Beckman Elementary School (Project #0910-8210) Allowance #1: Allowance for unforeseen conditions	\$40,000.00
Beckman Elementary School (Project #0910-8210) Allowance #2: Allowance for underground pathway	\$20,000.00

[Remainder of page left intentionally blank]

Additional Detail Regarding Calculation of Base Bid

1. **Allowance.** The Bidder's Base Bid shall not include an allowance any, see Bid Form. The above allowance shall only be allocated for unforeseen items relating to the Work. Contractor shall not bill for or be due any portion of this allowance unless the District has identified specific work, Contractor has submitted a price for that work or the District has proposed a price for that work, the District has accepted the cost for that work, and the District has prepared an Allowance Expenditure Directive incorporating that work. Contractor hereby authorizes the District to execute a unilateral deductive change order at or near the end of the Project for all or any portion of the allowance not allocated.
2. **OCIP.** Not used.
3. The undersigned has reviewed the Work outlined in the Contract Documents and fully understands the scope of Work required in this Proposal, understands the construction and project management function(s) is described in the Contract Documents, and that each Bidder who is awarded a contract shall be in fact a prime contractor, not a subcontractor, to the District, and agrees that its Proposal, if accepted by the District, will be the basis for the Bidder to enter into a contract with the District in accordance with the intent of the Contract Documents.
4. The undersigned has notified the District in writing of any discrepancies or omissions or of any doubt, questions, or ambiguities about the meaning of any of the Contract Documents, and has contacted the Construction Manager before bid date to verify the issuance of any clarifying Addenda.
5. The undersigned agrees to commence work under this Contract on the date established in the Contract Documents and to complete all work within the time specified in the Contract Documents.
6. The liquidated damages clause of the General Conditions and Agreement is hereby acknowledged.
7. It is understood that the District reserves the right to reject this bid and that the bid shall remain open to acceptance and is irrevocable for a period of ninety (90) days.
8. The following documents are attached hereto:
 - Bid Bond on the District's form or other security
 - Designated Subcontractors List
 - Site Visit Certification
 - Non-Collusion Declaration
 - Iran Contracting Act Certification
 - DVBE Certificate

9. Receipt and acceptance of the following Addenda is hereby acknowledged:

No. _____, Dated _____	No. _____, Dated _____
No. _____, Dated _____	No. _____, Dated _____
No. _____, Dated _____	No. _____, Dated _____

10. Bidder acknowledges that the license required for performance of the Work is a _____ license.
11. Bidder hereby certifies that Bidder is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work.
12. Bidder specifically acknowledges and understands that if it is awarded the Contract, that it shall perform the Work of the Project while complying with all requirements of the Department of Industrial Relations.
13. Bidder hereby certifies that its bid includes sufficient funds to permit Bidder to comply with all local, state or federal labor laws or regulations during the Project, including payment of prevailing wage, and that Bidder will comply with the provisions of Labor Code section 2810(d) if awarded the Contract
14. Not used.
15. Not used.
16. Bidder represents that it is competent, knowledgeable, and has special skills with respect to the nature, extent, and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work that may create, during the Work, unusual or peculiar unsafe conditions hazardous to persons and property.
17. Bidder expressly acknowledges that it is aware of such peculiar risks and that it has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the Work with respect to such hazards.
18. Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms "claim" and "knowingly" are defined in the California False Claims Act, Gov. Code, § 12650 et seq.), the District will be entitled to civil remedies set forth in the California False Claim Act. It may also be considered fraud and the Contractor may be subject to criminal prosecution.
19. The undersigned Bidder certifies that it is, at the time of bidding, and shall be throughout the period of the Contract, licensed by the State of California to do the type of work required under the terms of the Contract Documents and registered as a public works contractor with the Department of Industrial Relations. Bidder further certifies that it is regularly engaged in the general class and type of work called for in the Contract Documents.

Beckman Elementary School
Fire Alarm Upgrade

Furthermore, Bidder hereby certifies to the District that all representations, certifications, and statements made by Bidder, as set forth in this bid form, are true and correct and are made under penalty of perjury.

Dated this _____ day of _____ 20 ____

Name of Bidder: _____

Type of Organization: _____

Signed by: _____

Title of Signer: _____

Address of Bidder: _____

Taxpayer Identification No. of Bidder: _____

Telephone Number: _____

Fax Number: _____

E-mail: _____ Web Page: _____

Contractor's License No(s): No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

Public Works Contractor Registration No.: _____

END OF DOCUMENT

DOCUMENT 00 52 13

AGREEMENT

THIS AGREEMENT IS MADE AND ENTERED INTO THIS _____ DAY OF _____
_____, 20____, by and between the Lodi Unified School District ("District") and _____
_____ ("Contractor") ("Agreement").

WITNESSETH: That the parties hereto have mutually covenanted and agreed, and by these presents do covenant and agree with each other, as follows:

1. **The Work:** Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor, and material necessary to perform and complete in a good and workmanlike manner, the work of the following project:

Beckman Elementary School Fire Alarm Upgrade
("Project" or "Contract" or "Work")

It is understood and agreed that the Work shall be performed and completed as required in the Contract Documents including, without limitation, the Drawings and Specifications and submission of all documents required to secure funding or by the Division of the State Architect for close-out of the Project, under the direction and supervision of, and subject to the approval of, the District or its authorized representative.

2. **The Contract Documents:** The complete Contract consists of all Contract Documents as defined in the General Conditions and incorporated herein by this reference. Any and all obligations of the District and Contractor are fully set forth and described in the Contract Documents. All Contract Documents are intended to cooperate so that any Work called for in one and not mentioned in the other or vice versa is to be executed the same as if mentioned in all Contract Documents.
3. **Interpretation of Contract Documents:** Should any question arise concerning the intent or meaning of Contract Documents, including the Drawings or Specifications, the question shall be submitted to the District for interpretation. If a conflict exists in the Contract Documents, valid, written modifications, beginning with the most recent, shall control over this Agreement (if any), which shall control over the Special Conditions, which shall control over any Supplemental Conditions, which shall control over the General Conditions, which shall control over the remaining Division 0 documents, which shall control over Division 1 Documents which shall control over Division 2 through Division 49 documents, which shall control over figured dimensions, which shall control over large-scale drawings, which shall control over small-scale drawings. In no case shall a document calling for lower quality and/or quantity material or workmanship control. The decision of the District in the matter shall be final.
4. **Time for Completion:** It is hereby understood and agreed that the Work under this Contract shall be completed within Eighty (80) consecutive calendar days ("Contract Time") from the date specified in the District's Notice to Proceed.
5. **Completion - Extension of Time:** Should the Contractor fail to complete this Contract, and the Work provided herein, within the time fixed for completion, due

allowance being made for the contingencies provided for herein, the Contractor shall become liable to the District for all loss and damage that the District may suffer on account thereof. The Contractor shall coordinate its Work with the Work of all other contractors. The District shall not be liable for delays resulting from Contractor's failure to coordinate its Work with other contractors in a manner that will allow timely completion of Contractor's Work. Contractor shall be liable for delays to other contractors caused by Contractor's failure to coordinate its Work with the Work of other contractors.

6. **Liquidated Damages:** Time is of the essence for all work under this Agreement. It is hereby understood and agreed that it is and will be difficult and/or impossible to ascertain and determine the actual damage that the District will sustain in the event of and by reason of Contractor's delay; therefore, Contractor agrees that it shall pay to the District the sum of Five Hundred Dollars (\$500.00) per day as liquidated damages for each and every day's delay beyond the time herein prescribed in finishing the Work.

It is hereby understood and agreed that this amount is not a penalty.

In the event that any portion of the liquidated damages is not paid to the District, the District may deduct that amount from any money due or that may become due the Contractor under this Agreement, and such deduction does not constitute a withholding or penalty. The District's right to assess liquidated damages is as indicated herein and in the General Conditions.

The time during which the Contract is delayed for cause, as hereinafter specified, may extend the time of completion for a reasonable time as the District may grant, provided that Contractor has complied with the claims procedure of the Contract Documents. This provision does not exclude the recovery of damages by either party under other provisions in the Contract Documents.

7. **Loss Or Damage:** The District and its agents and authorized representatives shall not in any way or manner be answerable or suffer loss, damage, expense, or liability for any loss or damage that may happen to the Work, or any part thereof, or in or about the same during its construction and before acceptance, and the Contractor shall assume all liabilities of every kind or nature arising from the Work, either by accident, negligence, theft, vandalism, or any cause whatsoever; and shall hold the District and its agents and authorized representatives harmless from all liability of every kind and nature arising from accident, negligence, or any cause whatsoever.
8. **Insurance and Bonds:** Prior to issuance of the Notice to Proceed by the District, Contractor shall provide all required certificates of insurance, insurance endorsements, and payment and performance bonds as evidence thereof.
9. **Prosecution of Work:** If the Contractor should neglect to prosecute the Work properly or fail to perform any provisions of this Contract, the District, may, pursuant to the General Conditions and without prejudice to any other remedy it may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor.
10. **Authority of Architect, Project Inspector, and DSA:** Contractor hereby acknowledges that the Architect(s), the Project Inspector(s), and the Division of the State Architect ("DSA") have authority to approve and/or suspend Work if the

Contractor's Work does not comply with the requirements of the Contract Documents, Title 24 of the California Code of Regulations, and all applicable laws and regulations. The Contractor shall be liable for any delay caused by its non-compliant Work.

11. **Assignment of Contract:** Neither the Contract, nor any part thereof, nor any moneys due or to become due thereunder, may be assigned by the Contractor without the prior written approval of the District, nor without the written consent of the Surety on the Contractor's Performance Bond (the "Surety"), unless the Surety has waived in writing its right to notice of assignment.
12. **Classification of Contractor's License:** Contractor hereby acknowledges that it currently holds valid Type C-10 Contractor's license(s) issued by the State of California, Contractors' State License Board, in accordance with division 3, chapter 9, of the Business and Professions Code and in the classification called for in the Contract Documents.
13. **Registration as Public Works Contractor:** The Contractor and all Subcontractors currently are registered as public works contractors with the Department of Industrial Relations, State of California, in accordance with Labor Code section 1771.1.
14. **Payment of Prevailing Wages:** The Contractor and all Subcontractors shall pay all workers on all Work performed pursuant to this Contract not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for the type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to sections 1770 et seq. of the California Labor Code.
15. This Project is subject to labor compliance monitoring and enforcement by the Department of Industrial Relations pursuant to Labor Code section 1771.4 and Title 8 of the California Code of Regulations. Contractor specifically acknowledges and understands that it shall perform the Work of this Agreement while complying with all the applicable provisions of Division 2, Part 7, Chapter 1, of the Labor Code, including, without limitation, the requirement that the Contractor and all of its Subcontractors shall timely submit complete and accurate electronic certified payroll records as required by the Contract Documents, or the District may not issue payment.
16. **Contract Price:** In consideration of the foregoing covenants, promises, and agreements on the part of the Contractor, and the strict and literal fulfillment of each and every covenant, promise, and agreement, and as compensation agreed upon for the Work and construction, erection, and completion as aforesaid, the District covenants, promises, and agrees that it will well and truly pay and cause to be paid to the Contractor in full, and as the full Contract Price and compensation for

Beckman Elementary School
Fire Alarm Upgrade

construction, erection, and completion of the Work hereinabove agreed to be performed by the Contractor, the following price:

Beckman Elementary School**Base Bid Amount**

_____ Dollars (\$_____)

Allowance #1: Allowance for unforeseen conditions at Beckman Elementary School

FORTY THOUSAND DOLLARS \$40,000.00

Allowance #2: Allowance for underground pathway at Beckman Elementary School

TWENTY THOUSAND DOLLARS \$20,000.00

TOTAL CONTRACT PRICE:

_____ Dollars (\$_____)

in lawful money of the United States, which sum to be paid according to the schedule provided by the Contractor and accepted by the District and subject to additions and deductions as provided in the Contract. This amount supersedes any previously stated and/or agreed to amount(s).

17. **No Representations:** No representations have been made other than as set forth in writing in the Contract Documents, including this Agreement. Each of the Parties to this Agreement warrants that it has carefully read and understood the terms and conditions of this Agreement and all Contract Documents, and that it has not relied upon the representations or advice of any other Party or any attorney not its own.
18. **Entire Agreement:** The Contract Documents, including this Agreement, set forth the entire agreement between the parties hereto and fully supersede any and all prior agreements, understandings, written or oral, between the parties hereto pertaining to the subject matter thereof.
19. **Severability:** If any term, covenant, condition, or provision in any of the Contract Documents is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remainder of the provisions in the Contract Documents shall remain in full force and effect and shall in no way be affected, impaired, or invalidated thereby.

IN WITNESS WHEREOF, accepted and agreed on the date indicated above:

LODI UNIFIED SCHOOL DISTRICT

**AGREEMENT
DOCUMENT 00 52 13-4**

Beckman Elementary School
Fire Alarm Upgrade

CONTRACTOR

LODI UNIFIED SCHOOL DISTRICT

By: _____

By: _____

Title: _____

Title: _____

Contractor License No: _____

DIR Registration No: _____

NOTE: If the party executing this Contract is a corporation, a certified copy of the by-laws, or of the resolution of the Board of Directors, authorizing the officers of said corporation to execute the Contract and the bonds required thereby must be attached hereto.

END OF DOCUMENT

DOCUMENT 01 21 00

ALLOWANCE

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Non-specified work.

1.2 RELATED SECTIONS

A. Document 01 10 00 (Summary of Work)

B. Document 01 29 00 (Payments and Completion)

C. Document 01 32 19 (Submittal Procedures)

1.3 ALLOWANCES

- A. Included in the Contract, a stipulated sum/price of **Forty Thousand Dollars (\$40,000) for Beckman Elementary School as allowances for Unforeseen Conditions and Twenty Thousand Dollars (\$20,000) for Beckman Elementary School as allowances for underground pathway** within the limits set forth in the Contract Documents. This Allowance shall not be utilized without written approval by the District.
- B. Contractor's costs for products, delivery, installation, labor, insurance, payroll, taxes, bonding and equipment rental will be included in Allowance Expenditure Directive authorizing expenditure of funds from this Allowance.
- C. Funds will be drawn from Allowance only with District approval evidenced by an Allowance Expenditure Directive.
- D. At Contract closeout, funds remaining in Allowance will be credited to District by Change Order.

PART 2 PRODUCTS

Not used.

PART 3 EXECUTION

Not used.

END OF DOCUMENT

Addendum 1 Attachment 1.11

Lodi Unified School District
 PRE-BID CONFERENCE AND SITE VISIT SIGN-IN SHEET FOR
 PROJECT NO. 0910-8210
 Beckman Elementary School Fire Alarm Upgrade
 Beckman Elementary
 March 25, 2021
 3:00 PM

Company Name & Representative	Company Street Address	Phone #	E-Mail
Shane Brown Electric Ted Mayer	16535 County Rd 98. Woodland	916-710-6026	TedM@shanebrownelectric.com
CH O'Neill Electric	901 Oxford Way Stockton	209-941-3949	chunez@choneill.com
COLLINS BLOCOR Dustin Torner	3412 Metro Dr. Stockton	(209) 466-3691	DTORNER@COLLINSBLOCOR.COM
B&H ELECTRIC INC TIM FINCH	1122 BACK DIAMOND Way Lodi	209 334-6770	tim@bandhelectric.com
NCEC BRAD BONGIORNO	4529 QUAIL LAKES DR A STOCKTON	209-475-0163	BBONGIORNO@NCEC.INFO
STUDEBAKER BROWN ELECTRIC NANDENBOS	3257 RIPPEN ROAD Lodi 502 GIUSEPPE CT #5 ROSELAND	530-763-8854 916-773-1500	Michael@STUDEBAKERBROWNELECTRIC.COM TODD@VDBELECTRIC.COM
Bockman & Woody	1528 El Pinal, Stockton CA	209-464-8788	garym@bockmanwoody.com

**Lodi Unified School District
Project No. 0910-8210
Fire Alarm Upgrade Project
Beckman Elementary School**

PRE-BID CONFERENCE & SITE VISIT AGENDA

Date: March 25, 2021 **Time:** 3:00 p.m.
School: Beckman Elementary
Bid Date: April 14, 2021 by 2:00:00 p.m.

- I. Meeting Called to Order**
- II. Introduction of Project Team**
 - A. District Representatives, Vickie Brum and Joe Patty, Planning & Facilities
 - B. Capital Program Management, Doug McCalla and Mark Rosson
 - C. The Engineering Enterprise (TEE), Electrical Engineer, Jesse Wheeler
- III. Bidding Documents:** Available from District <https://www.lodiUSD.net/district/departments/business-services/facilities-and-planning/fp-projects>
- IV. Contracting Format:** (1) Prime Contract
- V. Scope of Work Descriptions:** Document 01 11 00 Part 1.02 A Summary of Work and Drawings
- VI. Engineer's Estimated Construction Budget: \$450,000.00**
- VII. Bidding and Contract Award Requirements:**
 - A. License requirement(s): C-10
 - B. Bid Bond or Certified Check, 10% of bid
 - C. Prevailing Wages - certified payrolls, payroll records and other documents shall be required along with your progress billings: www.dir.ca.gov/dlsr/DPreWageDetermination.htm
 - D. DIR Registration of Contractor & Subcontractors (See General Conditions, Section 0072 13)
 - E. Disabled Veterans Business Enterprise (DVBE – Section 00 45 46.02)
 - F. Bond and Insurance Requirements (See General Conditions, Section 00 72 13)
 - G. Bid Form (See Bid Form, Section 00 41 13):
 - 1. Completed Forms
 - 2. No exclusions
 - 3. No faxes, phone or email bids
 - 4. Bids good for 90 days
 - H. Pre-Qualified Bid Requirements - <https://pqbids.com/lodi/>
- VIII. Inspection Procedures:** DSA Project Inspector: Jason Zachary
- IX. Project Schedule:** See General Conditions, Section 00 01 20
 - Construction Start: May 17, 2021
 - Construction Completion: July 23, 2021
- X. Department of Justice (DOJ) Clearance, Badges and Security:** District Protocols
- XI. Site Information:**
 - A. Contact: Vickie Brum, 209-331-7223
 - B. Site access, temporary facilities, staging areas and parking
 - C. Conduct on school premises: No dialogue or contact with students, no smoking or tobacco and all employees on site are to conduct themselves professionally.
 - D. Contractor's working hours.
 - E. Contractor's supervision: The designated Superintendent must be present at all times when subcontractors or self-performance work is taking place.
- XII. Owner Meetings:**
 - A. Weekly meeting day, time and location TBD
- XIII. Questions**
- XIV. Adjournment**

Important note: Responses to inquiries and discussions occurring at this pre-bid walk-through shall in no way change or modify the bid documents. The bid documents will be affected only by addenda issued prior to the bid date.

Send written inquiries by March 31, 2021 to: Doug McCalla, dougmc@capitalpm.com

FIRE ALARM SYSTEM MATRIX

RESULT OF OPERATION	SMOKE DETECTOR	CO SMOKE DETECTOR	HEAT DETECTOR	DUCT DETECTOR	PULL STATION	ANAL	SYSTEM RESET	SIGNAL SILENCE	OPEN/SHORT	POWER LOSS	WATER LOW	TAMPER
FACP ALARM	X	X		X	X						X	
ANNUNCIATE ALARM	X	X		X	X							
OFF SITE REPORTING ALARM	X	X		X	X						X	
FACP TROUBLE								X	X			
ANNUNCIATE TROUBLE								X	X			
OFF SITE REPORTING TROUBLE								X	X			
AUDIBLE ALARM	X	X		X	X						X	
VISUAL ALARM	X	X		X	X						X	
FACP SUPERVISORY		X	X									X
ANNUNCIATE SUPERVISORY		X	X									X
OFF SITE REPORTING SUPERVISORY		X	X									X
SOUNDER BASE		X										
DEACTIVATE VISUALS							X					
DEACTIVATE AUDIBLES							X					
HVAC SHUTDOWN			X									X
SYSTEM NORMAL					X							X
DAMPER CLOSURE				X								
ROLL DOWN DOOR												

FIRE ALARM SYSTEM CABLE SCHEDULE

REQUIRED CABLES	CABLE TAG	CABLE	NO. OF CONDUCTORS	COLOR	AWG	CABLE USE
X	A	GENESIS	2(1PR)	RED/BLACK	#18	BUILDING INITIATION (SLC)
X	B	GENESIS	2(1PR)	RED/BLACK	#12	NOTIFICATION (NAC)
X	S	GENESIS	2(1PR)	RED/BLACK	#16	VOICE NOTIFICATION
X	D	AQUA SEAL	2(1PR)	GRAY	N/A	UG MULTI-MODE FIBER
X	F	GENESIS	2(1PR)	RED/BLACK	#12	24 VDC POWER
X	H	AQUA SEAL	2(1PR)	RED/BLACK	#12	UG NOTIFICATION (NAC)
X	E	AQUA SEAL	2(1PR)	RED/BLACK	#16	UG VOICE NOTIFICATION
X	G	AQUA SEAL	2(1PR)	RED/BLACK	#12	UG 24 VDC POWER
X	C	AQUA SEAL	2(1PR)	RED/BLACK	#16	UG BUILDING INITIATION (SLC)

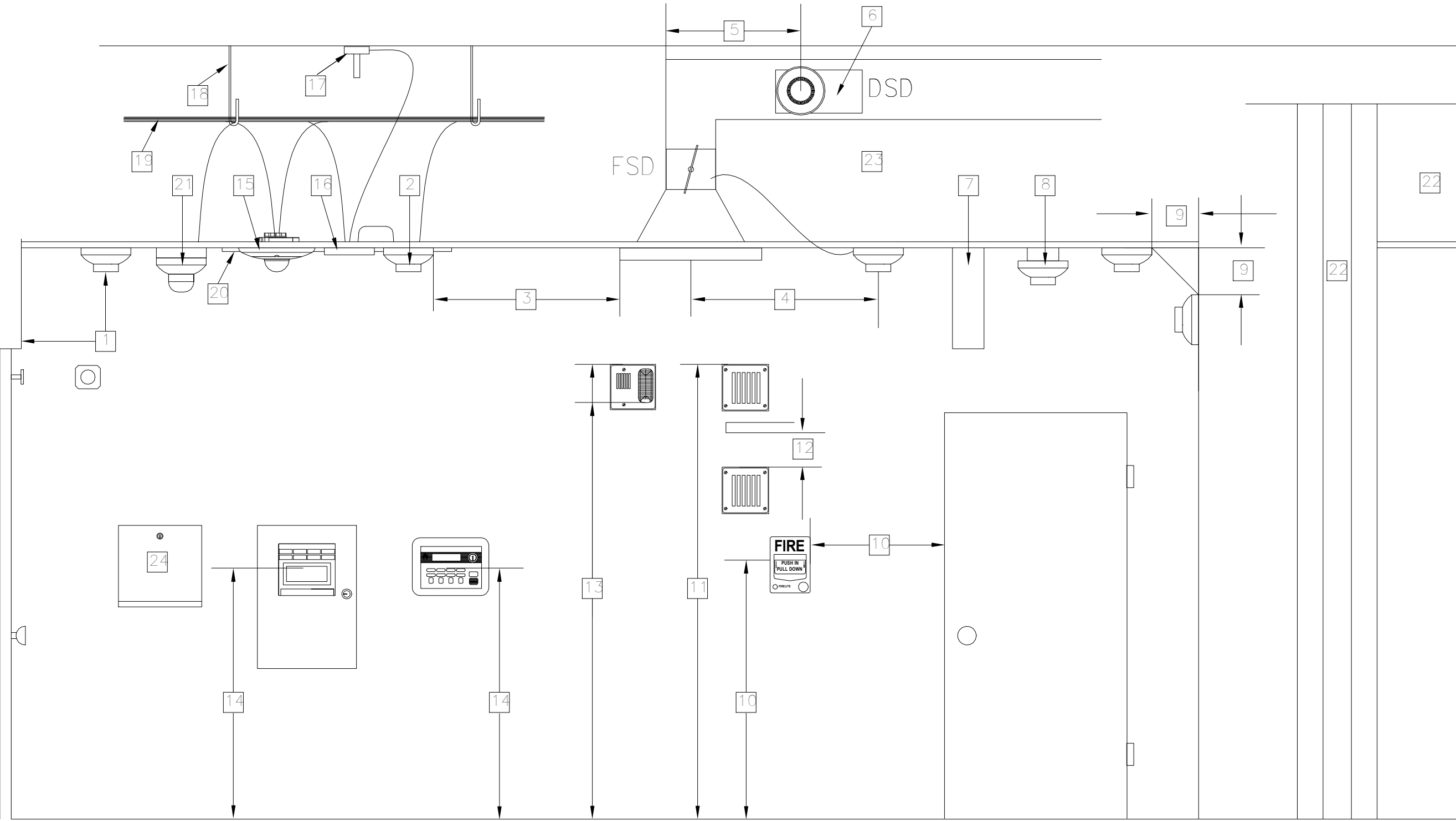
NUMBERED SHEET NOTES

- MOUNT DOOR HOLDER SMOKE DETECTOR MAXIMUM 3' FROM DOOR AND A MINIMUM OF 1'.
- MAXIMUM DISTANCE BETWEEN SMOKE DETECTORS IS 30' AND 15' FROM WALLS, MAXIMUM DISTANCE FROM A CORNER IS 21' WITH CEILING LESS 10' OR LESS.
- MOUNT SMOKE DETECTOR MINIMUM OF 3' AWAY FROM DIFFUSER VENT.
- MOUNT SMOKE DETECTOR FOR FIRE SMOKE DAMPER (FSD) WITHIN 3' OF SUPPLY VENT.
- DUCT SMOKE DETECTOR SHALL BE MOUNTED 6 TO 10 TIMES THE DIAMETER OF DUCT FROM BEND OR OBSTRUCTION.
- WHERE DUCT SMOKE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS OR GREATER THAN 10' AFF, DETECTORS SHALL BE PROVIDED WITH A REMOTE INDICATOR OR SUPERVISORY INDICATION ACCEPTABLE WITH AUTHORITY HAVING JURISDICTION (AHJ). ALL HVAC GREATER THAN 200cfm SHALL HAVE A DUCT DETECTOR IN THE SUPPLY AIR DUCT. GREATER THAN 15,000cfm SHALL HAVE ONE IN BOTH SUPPLY AND RETURN AIR DUCTS. HOWEVER SHALL NOT BE REQUIRED WHERE THE ENTIRE SPACE SERVED BY THE AIR DISTRIBUTION SYSTEM IS PROTECTED BY SMOKE DETECTOR TRIGGER HVAC SHUT-DOWN.
- BEAM POCKET SPOT DETECTOR ARE REQUIRED FOR BEAMS GREATER THAN 18" BELOW CEILING AND SPACED MORE THAN 8' ON CENTER. BEAM SPACING FORMED BY BEAM SHALL BE TREATED AS A SEPARATE AREA. BEAMS LESS THAN 12" IN DEPTH AND SPACED LESS THAN 8' ON CENTER SHALL HAVE DETECTORS INSTALLED ON THE BOTTOM OF THE BEAM.
 - OR, CEILINGS WITH BEAM DEPTHS LESS THAN 10 PERCENT OF THE CEILING HEIGHT. SMOOTH CEILING SPACING IS PERMITTED AND DETECTORS PLACED ON THE BOTTOM OF THE BEAM.
 - BEAMS EQUAL TO OR GREATER THAN 10 PERCENT OF CEILING HEIGHT WITH BEAM SPACING GREATER THAN 40 PERCENT OF CEILING HEIGHT. SPOT DETECTORS SHALL BE LOCATED IN EACH CELL. NFPA 72: 17.7.3.2.4.2.
- BEAMS PROJECTING LESS THAN 4" SHALL BE TREATED AS A SMOOTH CEILING.
- SMOKE DETECTORS SHALL BE MOUNTED ON THE CEILING MINIMUM 4" FROM WALL, AND 4" MINIMUM TO 12" MAXIMUM FROM CEILING MOUNTED ON WALL.
- MOUNT MANUAL PULL STATIONS AT 48" TO TOP OF BOX AFF, AND NO GREATER THAN 5' FROM DOOR.
- MOUNT EXTERNAL HORN AT 90° MINIMUM AND 100° MAXIMUM TO THE TOP OF THE DEVICE.
- FOR APPLICATIONS WHERE THE STRUCTURE IS BELOW 90°, MOUNT HORN AS HIGH AS WITH A MINIMUM OF 6" CLEARANCE ABOVE OF THE DEVICE.
- MOUNT HORN / SPEAKER STROBE AND STROBE ONLY THE THE ENTIRE LENS IS WITHIN 80° AND 96° AFF.
- MOUNT FIRE ALARM CONTROL PANELS AND ANNUNCIATORS AT A MAXIMUM OF 60" TO THE TOP OF THE CONTROL PANEL OR KEY BOARDS.
- CEILING MOUNTED HORN / SPEAKER STROBE.
- MONITOR MODULE.
- RATE ANTICIPATOR HEAT DETECTOR, MOUNTED IN ABOVE CEILING / ATTIC SPACE.
- APPROVED WIRE MANAGEMENT @ J-HOOK OR D-RING.
- ABOVE CEILING CIRCUITS ROUTING IN AN ACCESSIBLE ATTIC SPACE.
- NON-ACCESSIBLE CEILINGS MUST USE EITHER EMT OR APPROVED WIREMOLD RACEWAY, AS SHOWN ON PLANS.
- MULTI-CRITERIA PHOTOELECTRIC SMOKE / CO DETECTOR WITH SOUNDER BASE. MOUNT IN AREAS WHERE FOSSIL FUEL IS USED.
- SMOKE / HEAT DETECTION COVERAGE IS REQUIRED IN ALL COMBUSTIBLE AREAS, UNLESS:
 - CEILING IS ATTACHED DIRECTLY TO THE UNDERSIDE OF THE SUPPORTING BEAM OR ROOF DECK.
 - CONCEALED SPACE IS ENTIRELY FILLED WITH NON-COMBUSTIBLE INSULATION.
 - THE SMALL CONCEALED SPACE OVER ROOMS THAT DO NOT EXCEED 50 SQ. FT. IN AREA.
 - SPACES FORMED BY FACING STUDS OR SOLID JOISTS IN WALLS, FLOORS, OR CEILINGS WHERE THE FACING STUD OR SOLID JOIST IS LESS THAN 6".
- INACCESSIBLE SPACES THAT DO NOT MEET THIS CRITERIA MUST BE MADE ACCESSIBLE AND DETECTION MUST BE INSTALLED. NFPA72 17.5.3.1.1.
- DETECTION FOR CONCEALED ACCESSIBLE SPACES ABOVE SUSPENDED CEILING USED AS A RETURN PLENUM SHALL BE PROVIDED AT EACH CONNECTION FROM RETURN AIR PLENUM AT CENTRAL AIR HANDLING UNIT. NFPA 72 17.5.3.1.4.
- WITH EVERY NEW FIRE ALARM SYSTEM A DOCUMENTATION CABINET SHALL BE INSTALLED AT THE FIRE ALARM CONTROL PANEL OR AT ANOTHER LOCATION APPROVED BY AHJ. THE CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS".

FIRE ALARM SYSTEM COMPONENT SCHEDULE

REQUIRED COMPONENTS	SYMBOL	EQUIPMENT/DEVICE	MANUFACTURER	MODEL / PART #	CSFM LISTING YEAR	CSFM LISTING NO.
	[FACP]	FIRE ALARM CONTROL PANEL	GAMEWELL	E-3	6/30/2021	7165-1703-0125
	[AMP]	AMPLIFIER	GAMEWELL	AM-50	6/30/2021	7165-1703-0125
	[BP-X]	REMOTE POWER BOOSTER	GAMEWELL	HPF24-S8	6/30/2021	7315-1637-0102
	[IDT]	INTELLIGENT DUCT DETECTOR	GAMEWELL	XP95	6/30/2021	7272-1703-0155
	[IDH]	INTELLIGENT HEAT DETECTOR	GAMEWELL	ATD-L2F	6/30/2021	7270-1703-0115
	[AH]	ATTIC HEAT DETECTOR	GAMEWELL	5622	6/30/2021	7270-1653-0167
	[AH]	INTELLIGENT ATTIC HEAT DETECTOR 194 FIXED TEMP	GAMEWELL	ATD-L3H	6/30/2021	7270-1703-0502
	[PDT]	PHOTO SMOKE DETECTOR	GAMEWELL	ASD-PL3	6/30/2021	7272-1703-0501
	[FCO]	FIRE/CO DETECTOR WITH SOUNDER BASE	GAMEWELL SYSTEM SENSOR	MCS-COF B200S	6/30/2021 6/30/2021	7278-1703-0175 7300-1653-0213
	[DM]	DUAL MONITOR MODULE	GAMEWELL	AMM-2IF	6/30/2021	7300-1703-0107
	[SM]	MONITOR MODULE	GAMEWELL	AMM-4F	6/30/2021	7300-1703-0102
	[IM]	ISOLATION MODULE	GAMEWELL	M500X	6/30/2021	7300-1653-0103
	[CR]	CONTROL RELAY	GAMEWELL	AOM-2RF	6/30/2021	7300-1703-0102
	[P]	PULL STATION	GAMEWELL	MS-7	6/30/2021	7150-1703-0119
	[SSC]	SPEAKER STROBE (CEILING)	SYSTEM SENSOR	SPSCWL	6/30/2021	7320-1653-0505
	[SSC]	STROBE (CEILING)	SYSTEM SENSOR	SCWL	6/30/2021	7125-1653-0504
	[SSC]	OUTDOOR SPEAKER (CEILING)	SYSTEM SENSOR	SPWK	6/30/2021	7320-1653-0201
	[SSC]	OUTDOOR SPEAKER	SYSTEM SENSOR	SPWK	6/30/2021	7320-1653-0201
	[SSW]	SPEAKER STROBE (WALL)	SYSTEM SENSOR	SPSW	6/30/2021	7320-1653-0201
	[SW]	STROBE (WALL)	SYSTEM SENSOR	SW	6/30/2021	7125-1653-0156
	[EOLR]	END-OF-LINE RELAY	SYSTEM SENSOR	EOLR-1	6/30/2021	7300-1653-0103
	[DOC]	DOCUMENT BOX	SPACE AGE TECH	SRD-ACE-11	6/30/2021	7300-0553-0110
	[LOC]	LOCAL OPERATING CONSOLE	GAMEWELL	E-3 SERIES	6/30/2021	7165-1703-0125

X = COMPONENT USED IN CURRENT PROJECT.
N/A = COMPONENT NOT USED IN CURRENT PROJECT.



FIRE ALARM NOTES

- WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - STATE CALIFORNIA CODE OF REGULATIONS (CCR) 201 9 TITLE 24 CALIFORNIA BUILDING CODE PART 2, 2019 CALIFORNIA BUILDING CODE (CBC), 201 9 IBC.
 - PART 3, 2019 CALIFORNIA ELECTRICAL CODE (CEC), 201 9 NEC.
 - PART 4, 2019 CALIFORNIA MECHANICAL CODE (CMC), 201 9 UMC.
 - PART 5, 2019 CALIFORNIA PLUMBING CODE (CPC), 201 9 UPC.
 - PART 9, 2019 CALIFORNIA FIRE CODE (CFC) BASED ON 201 9 IFC.
 - 2016 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13, 72, 80, 90A, 99, AND 101.
- INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTATION AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHALL LISTING SHEETS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
- UPON COMPLETION OF INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
- A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF RECORD.
- DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
- ALL PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
- AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dba) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dba ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION AT LEAST 90 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIED SPACE WITHIN THE BUILDING.
- AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
- THE CONTRACTOR SHALL ADJUST/INSTALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
- VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 16 CANDELLA. VISUAL DEVICES WITHIN 5' FROM EACH OTHER SHALL BE SYNCHRONIZED.
- UNDERGROUND AND EXTERIOR CONDUIT TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
- ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THIN OR THIN.
- PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
- SMOKE DETECTORS SHALL BE NOT CLOSER THAN 1' FROM SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION OF NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL AREA IS READY TO BE TURNED OVER TO THE OWNER.
- ALL FIRE ALARM CIRCUITS ARE TO BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE THE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANNER AS INDICATED ON THE DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
- FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM A COMMON USE AREA PANEL AND SHALL HAVE OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXPANDERS.
- THE INSTALLER CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1.
- THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
- SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
- OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AND CBC 907.6.5.2. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UJUX BY UL OR SHALL MEET THE REQUIREMENTS OF FM STANDARD 3011.
- BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE DSA PROJECT INSPECTOR TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE 6) NFPA 72 SECTION 14.4.1.
- TEST, INSPECTION AND MAINTENANCE SHALL COMPLY WITH NFPA 72 CHAPTER 14 REQUIREMENTS.
- ALL DUCT SMOKE DETECTORS SHALL HAVE A KEYS TEST SWITCH MOUNTED AT 42" A.F.F., FIELD VERIFY LOCATION.

FIRE ALARM SYSTEM DESCRIPTION

SCOPE OF THIS PROJECT IS TO: PROVIDE A NEW FIRE ALARM PANEL WITH NEW VOICE EVACUATION PANEL, INCLUDING FACP, VOICE AMPLIFIERS, POWER SUPPLIES, MICROPHONE, INITIATION, NOTIFICATION AND CONTROL DEVICES AS SHOWN ON PLANS AND SPECIFICATIONS. PROVIDE ALL NEW CABLEING, CABLEING SHALL BE INSTALLED IN CONDUIT OR SURFACE RACEWAY, OR EXPOSED IN ACCESSIBLE CEILING SPACE.

FIRE ALARM SYSTEM: CLASS B
IDC: CLASS B
SLC CIRCUIT: CLASS B
NOTIFICATION CIRCUIT: CLASS B

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. # 02-118691 INC. #
REVIEWS FOR
SS. FLS. ACS.
DATE:

The Engineering Enterprise
CONSULTING ENGINEERS
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA 94501
(510) 886-5559



BECKMAN ELEMENTARY SCHOOL
FIRE ALARM MODERNIZATION
2201 SCARBOROUGH DR, LODI, CA
95240

REVISIONS

#	DESCRIPTION	DATE
1	ADDENDUM 1	04/01/2021

DESIGNER:

SCALE: 12" = 1'-0"

DATE: 2020.08.19

TITLE:

FA SCHEDULES,
NOTES & MATRIX

DRAWING NO.

FA0.01



BECKMAN ELEMENTARY SCHOOL
FIRE ALARM MODERNIZATION
22201 SCARBOROUGH DR, LODI, CA
95240

[illegible]

DESIGNER:Designer

SCALE: 12" = 1'-0"

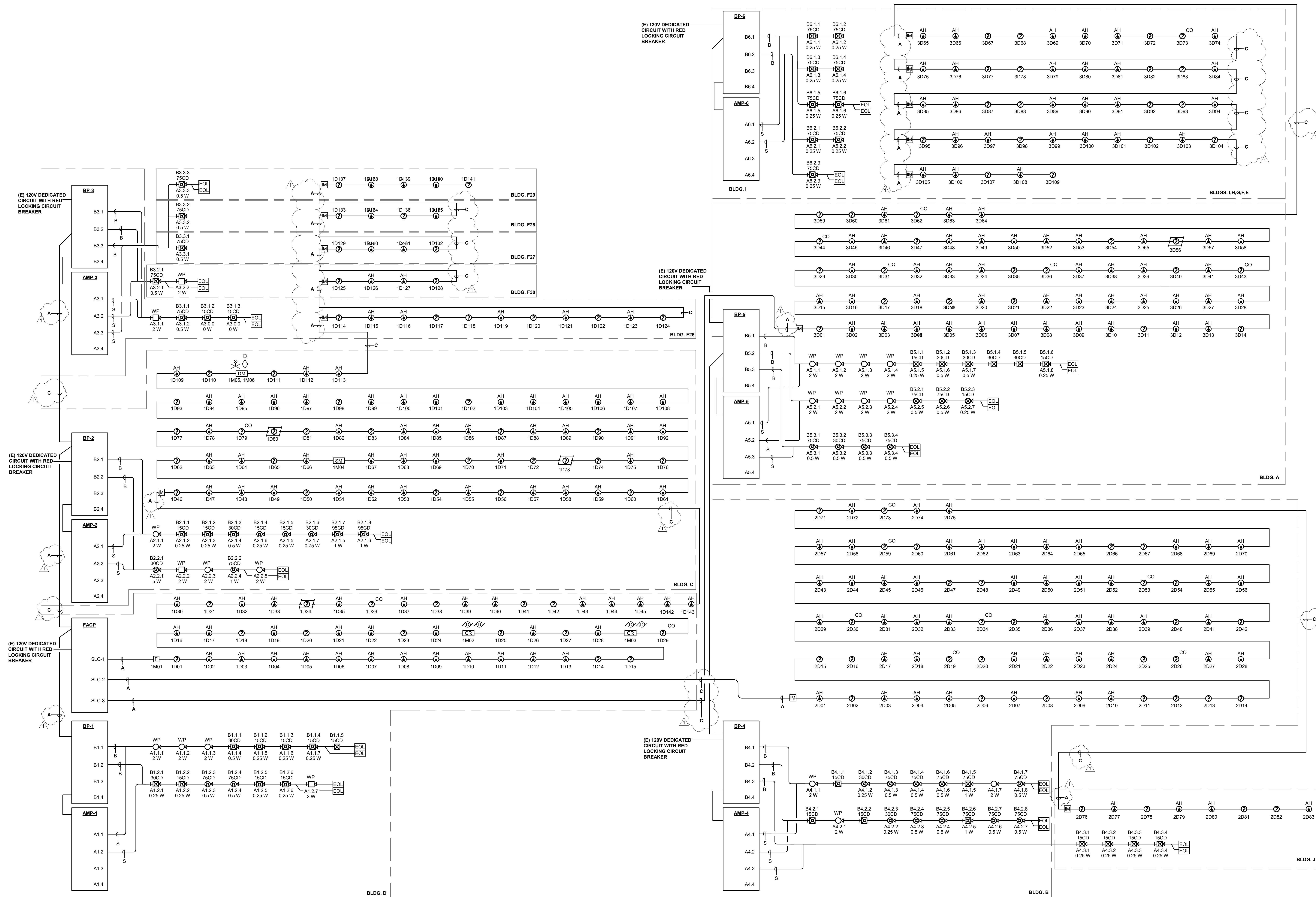
DATE:2020.08.19

TITLE:

**FIRE ALARM
RISER**

DRAWING NO.

FA3.02



FIRE ALARM RISER DIAGRAM

SCALE: 12" = 1'-0"