ADDENDUM NO. 02

March 16, 2020

PRIDE ACADEMY AT PROSPECT AVE SCHOOL – LEARNING RESOURCE CENTER (LRC) – 04-118742

SANTEE SCHOOL DISTRICT

Item No. 1	Specifications
AD2	Division 1

A. Add Specification Section 01 91 13 General Commissioning Requirements, per the attached AD2-01 91 13.

Item No. 2	Drawings
AD2	Sheet E2.1

A. Revise sheet E2.1 Level 1 Floor Plan- Lighting to show updated fixture references, per AD2-E2.1.

Item No. 3	Drawings
AD2	Sheet E4.6

A. Revise sheet E4.6 Classroom Audio-Visual Details, to add detail 5, per the attached AD2-E4.6.

Item No. 4	Drawings
AD2	Sheet E5.0

A. Revise sheet E5.0 Fire Alarm Site Plan to show replacement of remote annunciator, per AD2-E5.0.

Item No. 5	Drawings
AD2	Sheet E5.2

A. Revise sheet E5.2 Fire Alarm Schedule to show new annunciator, per AD2-E5.2.

Item No. 6	Drawings
AD2	Sheet E5.3

A. Revise sheet E5.3 to show revised riser diagram, per AD2-E5.3

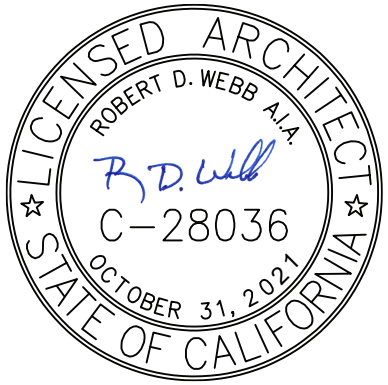
Item No. 7	Drawings
AD2	Sheet E9.1

A. Revise sheet E9.1 to show updated Panel 'L1" schedule, per AD2-E9.1.

END OF ADDENDUM NUMBER 02

StudioWC

Robert D. Webb, AIA, Architect, Senior Vice President



ATTACHMENTS:

Specifications 8.5" x 11"
AD2-01 91 13

Drawings 8.5" x 11"
AD2-E4.6 Classroom Audio-Visual Details

Drawings 11" x 17"
AD2-E2.1 Level 1 Floor Plan- Lighting
AD2-E5.0 Fire Alarm Site Plan
AD2-E5.2 Fire Alarm Schedule
AD2-E5.3 Fire Alarm Riser and Calculations
AD2-E9.1 Panel Schedules

SECTION AD2-01 91 13

GENERAL COMMISSIONING REQUIREMENTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

B. Owner's Project Requirements (OPR) and Basis of Design (BoD) documentation are included by reference. These documents are for information only and will be furnished upon request.

1.02 SUMMARY

A. Section includes general requirements that apply to implementation of commissioning without regard to specific systems, assemblies, or components.

B. Related Sections:

1. Division 1 Section "Operations and Maintenance Data" for requirements for documentation for operation and maintenance of commissioned systems and equipment.

2. Division 1 Section "Sustainable Design Requirements (CHPS)" for additional information related to required commissioning processes and activities.

1.03 DEFINITIONS

A. BoD: Basis of Design. A document that records concepts, calculations, decisions, and product selections used to meet the OPR and to satisfy applicable regulatory requirements, standards, and guidelines. The document includes both narrative descriptions and lists of individual items that support the design process.

B. CHPS: Collaborative for High Performance Schools a non-profit organization.

C. Commissioning Plan: A document that outlines the organization, schedule, allocation of resources, and documentation requirements of the commissioning process.

D. CxA: Commissioning Authority.

E. EDR: Energy Design Resources (EDR) is an organization funded by California utility customers under the auspices of the California Public Utilities Commission. They offer decision-making tools and resources that help make it easier to design, build and operate more energy-efficient buildings in California.

1. EDR's software commissioning assistant, " Cx Assistant," is available at the following web site:

a. http://www.energydesignresources.com/Resources/SoftwareTools/CommissioningAssistant.aspx.

F. OPR: Owner's Project Requirements. A document that details the functional requirements of a project and the expectations of how it will be used and operated. These include Project goals, measurable performance criteria, cost considerations, benchmarks, success criteria, and supporting information. Address HVAC, lighting, indoor environment, energy efficiency, site, water use and other factors affecting the environmental responsiveness of the facility.

1. Design Intent Documents (DID): Shared meaning element with OPR; may be used interchangeably.

G. Systems, Subsystems, Equipment, and Components: Where these terms are used together or separately, they shall mean "as-built" systems, subsystems, equipment, and components.

1.04 COMMISSIONING TEAM

A. Members Appointed by Contractor(s): Individuals, each having the authority to act on behalf of the entity he or she represents, explicitly organized to implement the commissioning process through coordinated action. The commissioning team shall consist of, but not be limited to, representatives of Contractor, including Project superintendent and subcontractors, installers, suppliers, and specialists deemed appropriate by the CxA.

B. Members Appointed by Owner:

1. CxA: The designated person, company, or entity that plans, schedules, and coordinates the commissioning team to implement the commissioning process. Owner will engage the CxA under a separate contract.

a. The CxA, as an independent third party, may not be a member of the design team for the project.

2. Representatives of the facility user and operation and maintenance personnel.

3. Architect and engineering design professionals.

1.05 OWNER'S RESPONSIBILITIES

A. Provide the OPR documentation, prepared by the Commissioning Team and approved by Owner, to the CxA and Contractor for information and use.

B. Assign operation and maintenance personnel and schedule them to participate in commissioning team activities.

C. Provide the BoD documentation, prepared by Architect and approved by Owner, to the CxA and Contractor for use in developing the commissioning plan, systems manual, and operation and maintenance training plan.

1.06 CONTRACTOR'S RESPONSIBILITIES

A. Contractor shall assign representatives with expertise and authority to act on its behalf and shall schedule them to participate in and perform commissioning process activities including, but not limited to, the following:

1. Evaluate performance deficiencies identified in test reports and, in collaboration with entity responsible for system and equipment installation, recommend corrective action.

2. Cooperate with the CxA for resolution of issues recorded in the Issues Log.

3. Attend commissioning team meetings.

4. Integrate and coordinate commissioning process activities with construction schedule.

5. Review and accept construction checklists provided by the CxA.

6. Complete paper construction checklists as Work is completed.

    a. Provide completed checklists to the Commissioning Authority not less than weekly.

7. Review and accept commissioning process test procedures provided by the Commissioning Authority.

8. Complete commissioning process test procedures.

1.07 CxA'S RESPONSIBILITIES

A. Administrative: Organize and lead the commissioning team.

B. Provide commissioning plan.

C. Commissioning Meetings: Convene, attend and direct commissioning team meetings. At the discretion of the Architect, these meetings may be combined with the job progress meetings. Commissioning meetings shall be scheduled weekly.

D. Construction Checklists: Provide Project-specific construction checklists and commissioning process test procedures.

E. Issues Log: Prepare and maintain the Issues Log.

F. Check List Log: Prepare and maintain completed construction checklist log.

G. Independent Verification: Witness systems, assemblies, equipment, and component startup.

H. Quality Control: Verify the execution of commissioning process activities using random sampling. The sampling rate may vary from 1 to 100 percent. Verification will include, but is not limited to, equipment submittals, construction checklists, training, operating and maintenance data, tests, and test reports to verify compliance with the OPR. When a random sample does not meet the requirement, the CxA will report the failure in the Issues Log.

I. Final Commissioning Report: Compile test data, inspection reports, and certificates; include them in either the systems manual or the commissioning process report. List each commissioned system and assembly, and include the following items, as a minimum:

1. CxA's statement of the system's or assembly's compliance with the OPR.
2. Description of the OPR.
3. Description of the project specifications.
4. Verification of installation (construction checklist disposition).
5. Functional performance testing and forms.
6. Operations and maintenance data evaluation.
7. Training program evaluation.
8. Value of the commissioning process.
9. Outstanding issues.

PART 2 - PRODUCTS
(Not Applicable)

PART 3 - EXECUTION
(Not Applicable)

END OF SECTION

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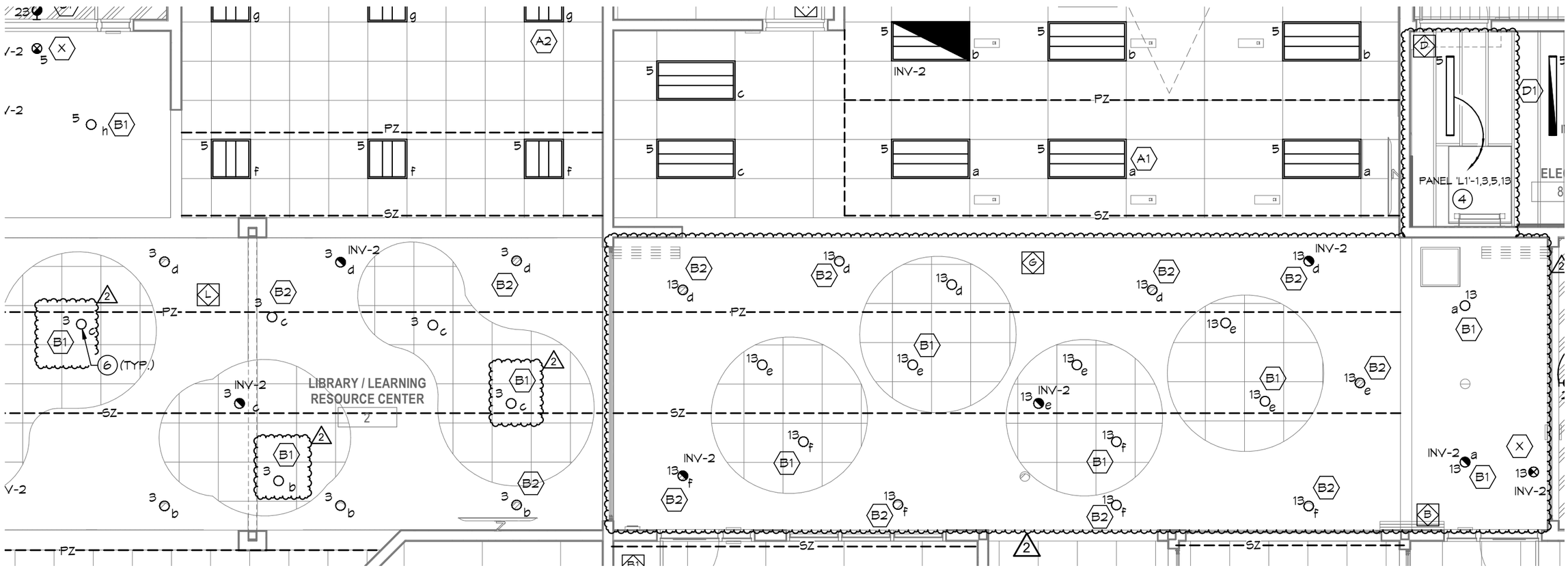

LEVEL 1 FLOOR PLAN - LIGHTING

1/4" = 1'-0"

1

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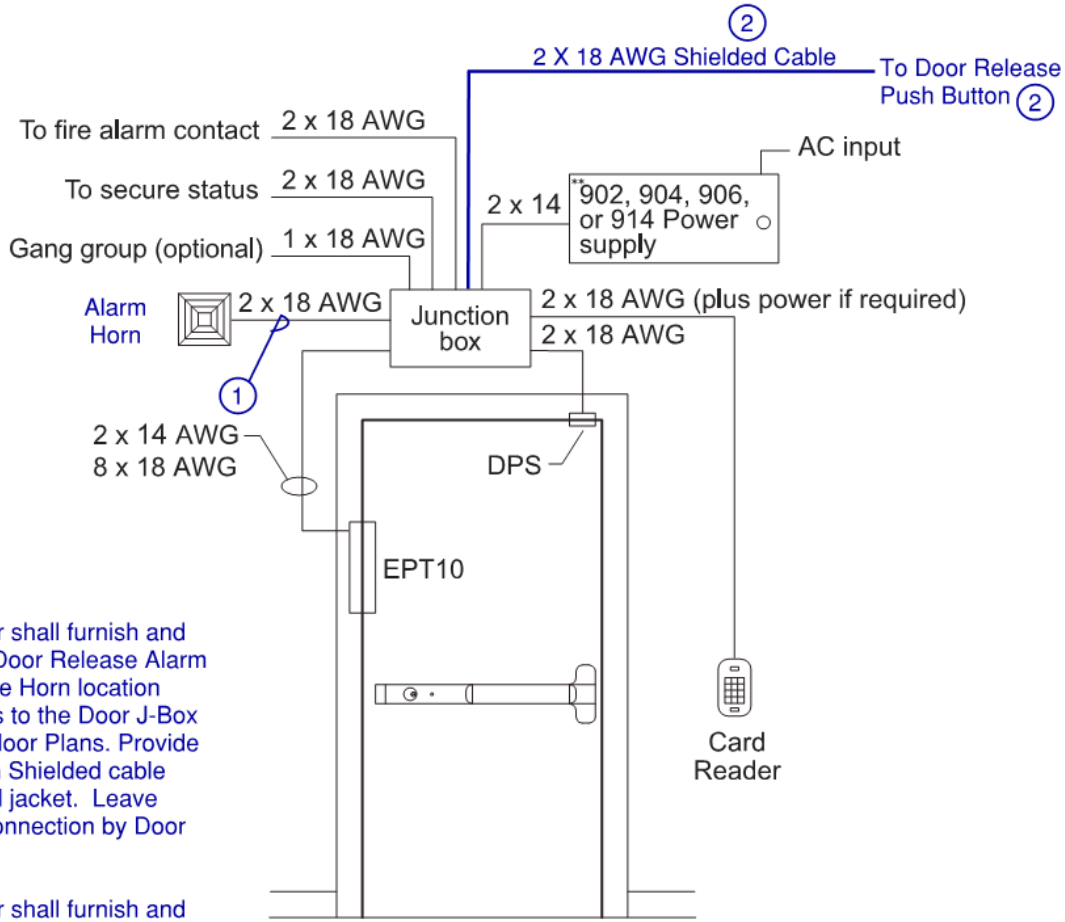

Figure 1. Typical Door - Actual Door per Arch. Floor Plans

DETAIL KEYNOTES:

(1) The 27 10 00 Contractor shall furnish and install the cable for the Door Release Alarm Horn. Run cable from the Horn location shown on the floor plans to the Door J-Box location shown on the Floor Plans. Provide a 2-Conductor, 18-AWG Shielded cable with a CM or CMR-rated jacket. Leave slack at both ends for connection by Door Contractor

(2) The 27 10 00 Contractor shall furnish and install the Door Release Push Button and cable to Door J-Box. Run cable from the Push Button location shown on the floor plans to the Door J-Box location shown on the Floor Plans. Provide a 2-Conductor, 18-AWG Shielded cable with a CM or CMR-rated jacket. See specifications for Push Button requirements

ALL CABLING AND COMPONENTS SHALL BE PROVIDED BY THE DOOR CONTRACTOR EXCEPT FOR THE ITEMS SPECIFICALLY CALLED OUT BY THE 27 10 00 CONTRACTOR

DOOR RELEASE DETAIL
NO SCALE

5
E4.6

SHEET NO.
AD2-E4.6

DSA APPL. NO.
04-118742

DATE:
02/28/20

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KEY NOTES:

1. EXISTING REMOTE ANNUNCIATOR TO BE DISCONECTED AND REMOVED. PROVIDE NEW REMOTE ANNUNCIATOR AT EXISTING LOCATION. PROVIDE ALL REQUIRED WIRING, CARDS, SOFTWARE AND PROGRAMMING FOR A COMPLETE SYSTEM.

(E) MULTI-PURPOSE
BUILDING E
A# 19962, 04-109083

EX F

(EX) FACP
A#109093

ANN
FACP

REMOTE ANNUNCIATOR (1)

2

(E) ADMINISTRATION
BUILDING E
A# 19962, 04-109083

(E) LUNCH STRUCTURE
A# 04-111291

(E) KINDERGARTEN
BUILDING D
A# 19962, 04-109083

(E) CLASSROOM
BUILDING C
A# 19962, 04-109083

FIRE ALARM SITE PLAN | 1" = 20'-0" | 1

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FCI MODEL E3					
	SYM	MODEL NO.	DESCRIPTION	C.S.F.M. LISTING	MFG.
	FACP	FCI-E3	FIRE ALARM CONTROL PANEL/VOICE EVAC	7165-1703:0125	GAMEWELL FCI
	SM	SERIES DMS	SYNC MODULE	7300-0785:0132	COOPER WHEELOCK
	S C	MCS-COF	INTELLIGENT SMOKE /CO DETECTOR	7275-1703:0175	GAMEWELL FCI
		B200S	SENSOR SOUNDER BASE	7300-1653:0213	SYSTEM SENSOR
	S	ASD-PL2F	INTELLIGENT SMOKE DETECTOR	7272-1703:0121	GAMEWELL FCI
		B210LP	SENSOR BASE	7300-1653:0109	SYSTEM SENSOR
	ANN	GFANN-80	REMOTE ANNUNCIATOR	7120-1703:0183	GAMEWELL FCI
	H A	ATD-HL2F	INTELLIGENT HEAT DETECTOR (ABOVE CEILING)	7270-1703:0113	GAMEWELL FCI
		B501	SENSOR BASE	7300-1653:0109	SYSTEM SENSOR *
	F	ET1010	EXTERIOR SPEAKER W/WBB BACKBOX	7320-0785:0105	COOPER WHEELOCK
		LSTC	STROBE (15/30/75/110) cd (CEIL MNT)	7125-0785:0180	COOPER WHEELOCK
		LSPSTC	SPEAKER/STROBE - CEILING	7125-0785:0178	COOPER WHEELOCK
		LSPST	SPEAKER/STROBE - WALL	7125-0785:0175	COOPER WHEELOCK
	M	AMM-2F	ADDRESSABLE MONITOR MODULE	7300-1703:0102	GAMEWELL FCI
	R	AOM-2RF	ADDRESSABLE RELAY MODULE	7300-1703:0102	GAMEWELL FCI
	R1	RIC-1	120 VOLT RELAY MODULE	7300-1004:0101	SAE INC
		TYPE FPL	SIGNAL LINE CIRCUIT CONDUCTORS ('M')	7161-0859:0101	WEST PENN
		TYPE THHN	AUDIO VISUAL AND POWER CONDUCTORS (AV,P)	N/A	SOUTHWIRE

* IF OTHER MANUFACTURER IS USED IT IS TO BE UL. AND CSFM LISTED.

2

ANNUNCIATOR ZONE SCHEDULE

	ROOM SMOKE/CO OR HEAT DETECTORS	ABOVE CEILING HEAT DETECTORS	SPRINKLER SYSTEM	TROUBLE INDICATION
BLDG. SCE	YES	YES	N/A	YES

NOTES:

1. ALL SMOKE DETECTORS/CO DETECTORS, HEAT DETECTORS ABOVE CEILING DETECTORS, DUCT DETECTORS MANUAL PULL STATIONS, FLOW SWITCHES, TAMPER SWITCHES SHALL BE INDIVIDUALLY ADDRESSABLE.
2. PROVIDE (1) ANNUNCIATOR AT BLDG. 'E' WHICH WILL PROVIDE LED LIGHT INDICATORS TO IDENTIFY THE ABOVE ZONE SCHEDULE (IN ADDITION TO ANNUNCIATOR NOTED IN NOTE # 3).
3. PROVIDE (1) 32 CHARACTER BACK-LIGHTED ALPHA-NUMERIC DISPLAY ANNUNCIATOR WITH KEYPAD FOR OPERATOR CONTROL, PROGRAMMING AND TESTING.

2

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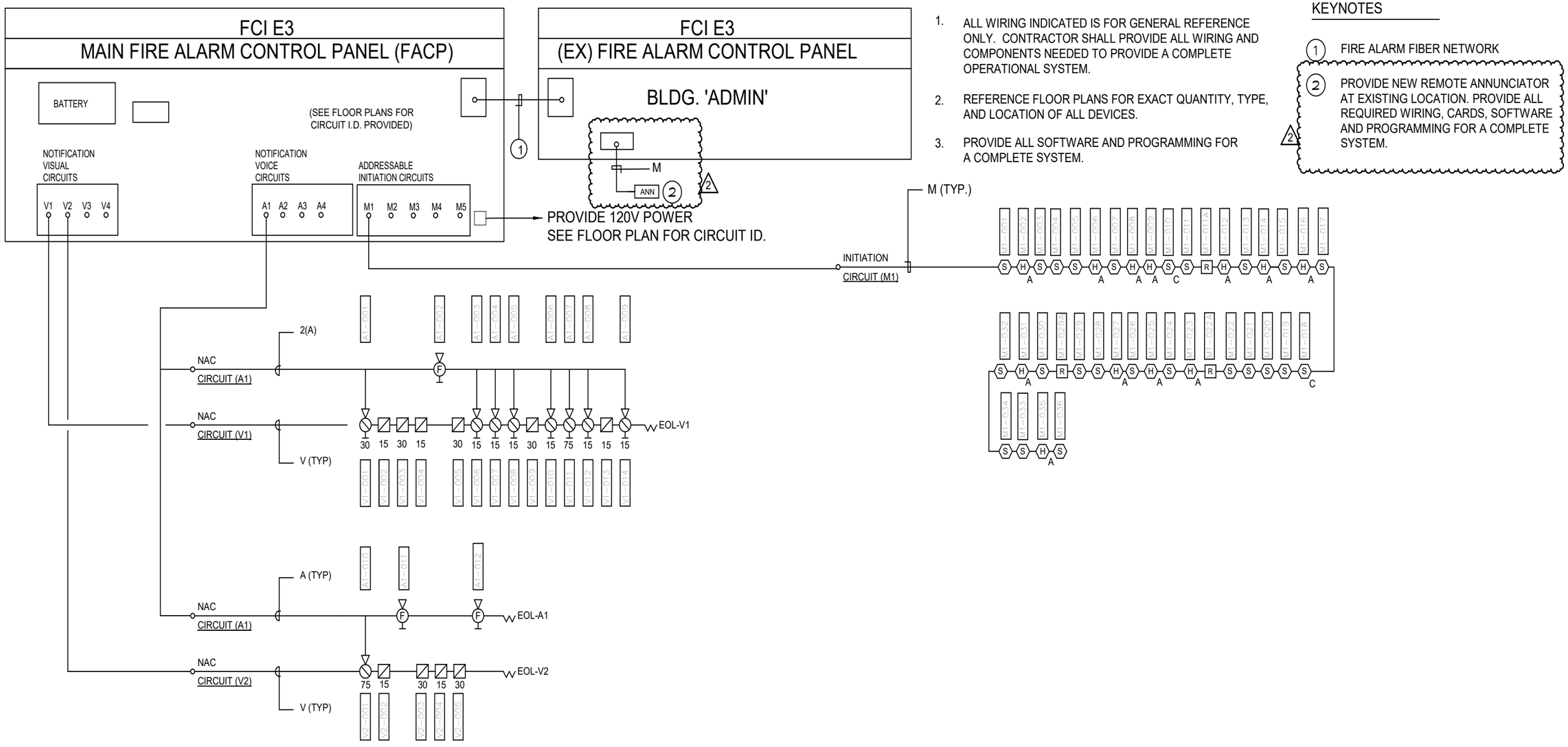

GENERAL NOTES:

1. ALL WIRING INDICATED IS FOR GENERAL REFERENCE ONLY. CONTRACTOR SHALL PROVIDE ALL WIRING AND COMPONENTS NEEDED TO PROVIDE A COMPLETE OPERATIONAL SYSTEM.
2. REFERENCE FLOOR PLANS FOR EXACT QUANTITY, TYPE, AND LOCATION OF ALL DEVICES.
3. PROVIDE ALL SOFTWARE AND PROGRAMMING FOR A COMPLETE SYSTEM.

KEYNOTES

1. FIRE ALARM FIBER NETWORK
2. PROVIDE NEW REMOTE ANNUNCIATOR AT EXISTING LOCATION. PROVIDE ALL REQUIRED WIRING, CARDS, SOFTWARE AND PROGRAMMING FOR A COMPLETE SYSTEM.

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04-118472

2

120/208	120/208 3PH, 4WIRE		400 AMP	Main	Breaker	X		ENCLOSURE TYPE	ENCLOSURE NOTE
	200% Neutral Bus				Lug			X NEMA TYPE 1	
	(INTEGRAL)TVSS Protection			Enclosure	Recessed			NEMA TYPE 3R	
L1	(REMOTE)TVSS Protection				Surface	X		NEMA TYPE 4X	
	Service Entrance Rated	X	GENERAL DISTRIBUTION	PROVIDE LOCK ON BREAKER DEVICES FOR ALL EMERGENCY LIGHTING,					
	Load Side Feed thru Lugs	X	BREAKER REQUIREMENTS :	MOTORS, AND FIRE ALARM EQUIPMENT SERVED FROM THIS PANEL					

LCL	NHL	CIRCUIT DESCRIPTION	AMP	POLE	NO	PHASE A	PHASE B	PHASE C	NO	AMP	POLE	CIRCUIT DESCRIPTION	LCL	NHL
X		INTERIOR LTG	20	1	1	850			2	40	3	AC-1		
						3240								
X		INTERIOR LTG	20	1	3		1100		4	-	-	"		
							3240							
X		INTERIOR LTG	20	1	5			950	6	-	-	"		
								3240						
		CU-1	30	2	7	1260			8	50	3	AC-2		
						3720								
		"	-	-	9		1260		10	-	-	"		
							3720							
		EF-1	20	1	11			66	12	-	-	"		
								3720						
		INTERIOR LTG	20	1	13	1040			14	50	3	AC-3		
						3720								
		EWH-1-CR10	40	1	15		3500		16	-	-	"		
							3720							
		EWH-1-CR10	40	1	17			3500	18	-	-	"		
								3720						
		EWH-1-TOILET	40	1	19	3500			20	50	3	AC-4		
						3720								
		SPARE	20	1	21		3720		22	-	-	"		
								465						
		EXTERIOR LTG	20	1	23			3720	24	-	-	"		
		SPARE	20	1	25				26	20	2	FC-1		
						150								
		SPARE	20	1	27		150		28	-	-	"		
		SPARE	20	1	29				30	20	1	SPARE		
		SPARE	20	1	31				32	20	1	SPARE		
		SPARE	20	1	33				34	20	1	SPARE		
		SPARE	20	1	35				36	20	1	SPARE		
		SPARE	20	1	37				38	20	1	SPACE		
		SPARE	20	1	39				40	20	1	SPACE		
		EM LTG INVERTER	25	1	41			250	42	20	1	DISPLAY LTG		

SPECIAL PANEL				NOTE #1	
NOTE				NOTE #2	
NHL= Non Harmonic Load	TOTAL LOAD PER PHASE	21200	20410	19631	HIGH PHASE 30918.5 / 0.9pf = VA @ 120V **286.3** AMPS
LCL= Long Continuous Load	25% LONG CONTINUOUS LOADS	213	275	238	ALL PHASES 86916 / 0.9pf = VA @ 208V/3PH **268.3** AMPS
	SUB PANEL L2	8000	5900	11050	
Max. Neut. Load	SUB PANEL				DEMAND PER NEC 220-34 AMPS
300 AMPS	TOTAL CONNECTED LOAD	29413	26585	30919	

M:\Panel Schedule\2019\19031 Pride Academy\L1

9:41 AM3/16/2020

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