DSA **140**

APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval.This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the DSA Forms or DSA Publications webpages.

1. SUBMITTAL TYPE: (Is this a resubmittal? Yes ☐ No ☑)

Deferred Submittal ☐	Addendum Number:	Revision Number:	CCD Number: 027	Category A ☑ or B ☐

2. PROJECT INFORMATION:

School District/Owner: Oxnard Union High School District	DSA File Number: 56 H4
Project Name/School: Camarillo High School Alterations Project / Camarillo High School	DSA Application Number 03 120049

3. APPLICANT INFORMATION:

Date Submitted: 02/14/23	Attached Pages? No ☐ Yes ☑ Number of pages? 12		
Firm Name: Flewelling & Moody	Contact Name: Sam Sahand		
Work Email: ssahand@flewelling-moody.com	Work Phone: (323) 543-8300		
Firm Address: 815 Colorado Blvd. Suite 200	City: Los Angeles	State: CA	Zip Code: 90041

4. REASON FOR SUBMITTAL: (Check applicable boxes)

☐ For revision or addendum prior to construction.

☑ For a project currently under construction.

☐ For a project that has a form *DSA 301-N: Notification of Requirement for Certification*, *DSA 301-P: Posted Notification of Requirement for Certification* or a 90-Day Letter issued.

☐ To obtain DSA approval of an existing uncertified building or buildings.

☐ For Category B CCD this is: ☐ a voluntary submittal, ☐ a DSA required submittal (attach DSA notice requiring submission).

5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:

Name of the Design Professional In General Responsible Charge: Matt Buchanan

Professional License Number: C-26053 Discipline: Architect

Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.

Signature: _____

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:

For addenda, revisions, or CCDs: CHECK THIS BOX ☐ to confirm that *all* post-approval documents have been stamped and signed by the Responsible Design Professional listed on form *DSA 1: Application for Approval of Plans and Specifications* for this project. (For *Deferred Submittals*, refer to *IR A-18: Use of Construction Documents Prepared by Other Professionals,* and *IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents*, when applicable, for signature and seal requirements.)

Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed):

Added dust collector exhaust ducting connected to existing wood shop equipment. Added reduced pressure backflow preventer for sprinkler connections at dust collector. Added electrical power, transformer and panels for dust collector. Revised locations of NR/I-1 and CP/I-1, and (N) Panel 'HI'. (Reference CCD#22 for dust collector unit)

List of DSA-approved drawings affected by this post-approval document:

CCD22_A02, CCD22_A03, MI-217D, MI-217, P-001, PI-201, E-104, E-105, E-110, EI-201D, EI-201

DSA USE ONLY

SSS LZ Date 03/26/2024 ☒ Approved ☐ Disapproved ☐ Not Required

Comments: _____

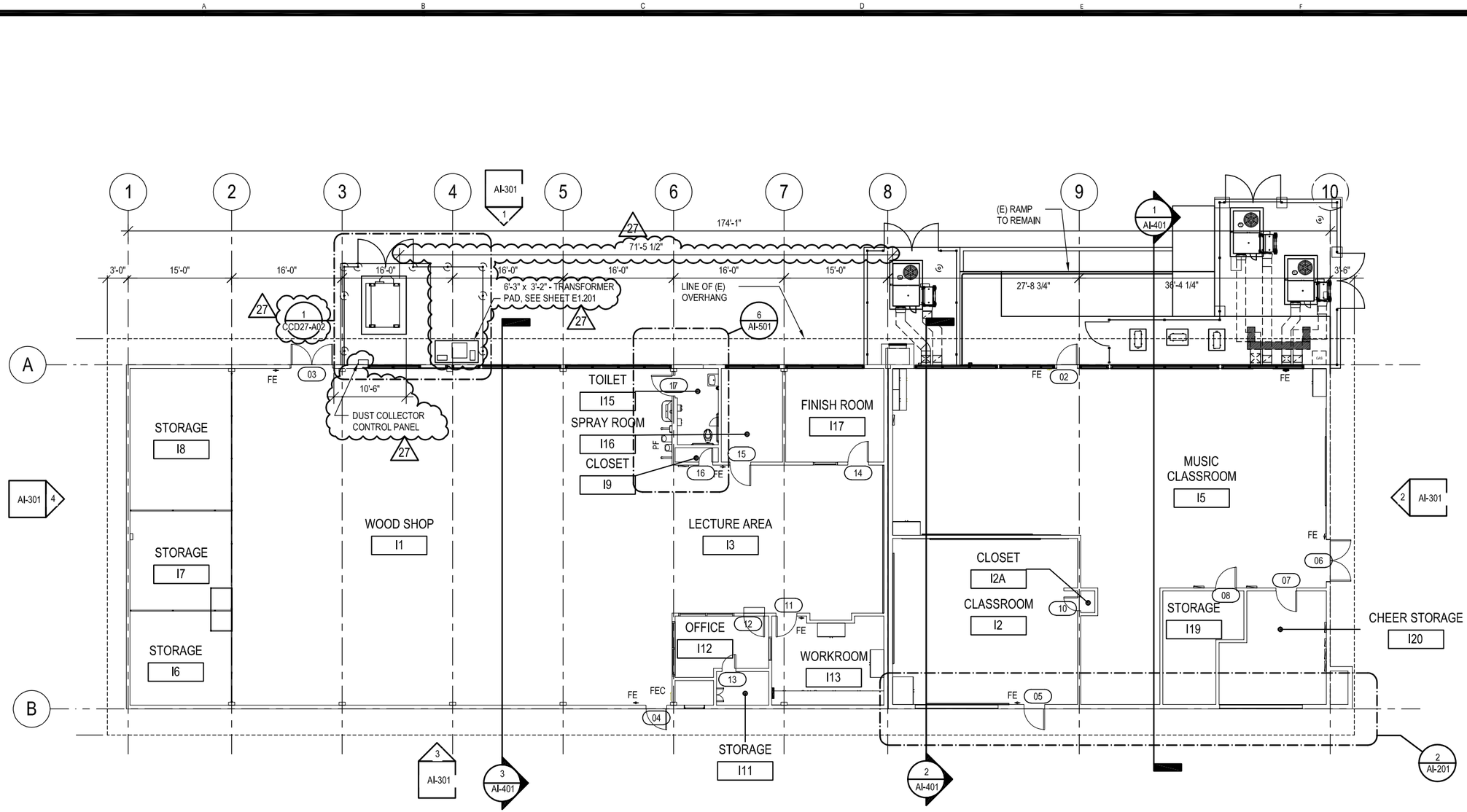
FLS AC Date 02/26/2024 ☐ Approved ☐ Disapproved ☐ Not Required

Comments: _____

ACS _____ Date _____ ☐ Approved ☐ Disapproved ☒ Not Required

Comments: _____

Returned	DSA STAMP
Date:	APPROVED DIV. OF THE STATE ARCHITECT APP: 03-120049 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☐ DATE: 03/26/2024
By:	



BUILDING "I"
RECONSTRUCTION FLOOR PLAN

SCALE : 1/4" = 1'-0"

1
CCD27_A01

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-120049 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/26/2024

FLEWELLING architecture planning interiors
Pasadena - 323.543.8300 www.flewellingmoody.com Lancaster - 661.949.0771

LICENSED ARCHITECT ☆ CALIFORNIA
MATTHEW BUCHANAN
C-26053
Ren. Date 08/31/2025
STATE OF CALIFORNIA

CCD 27

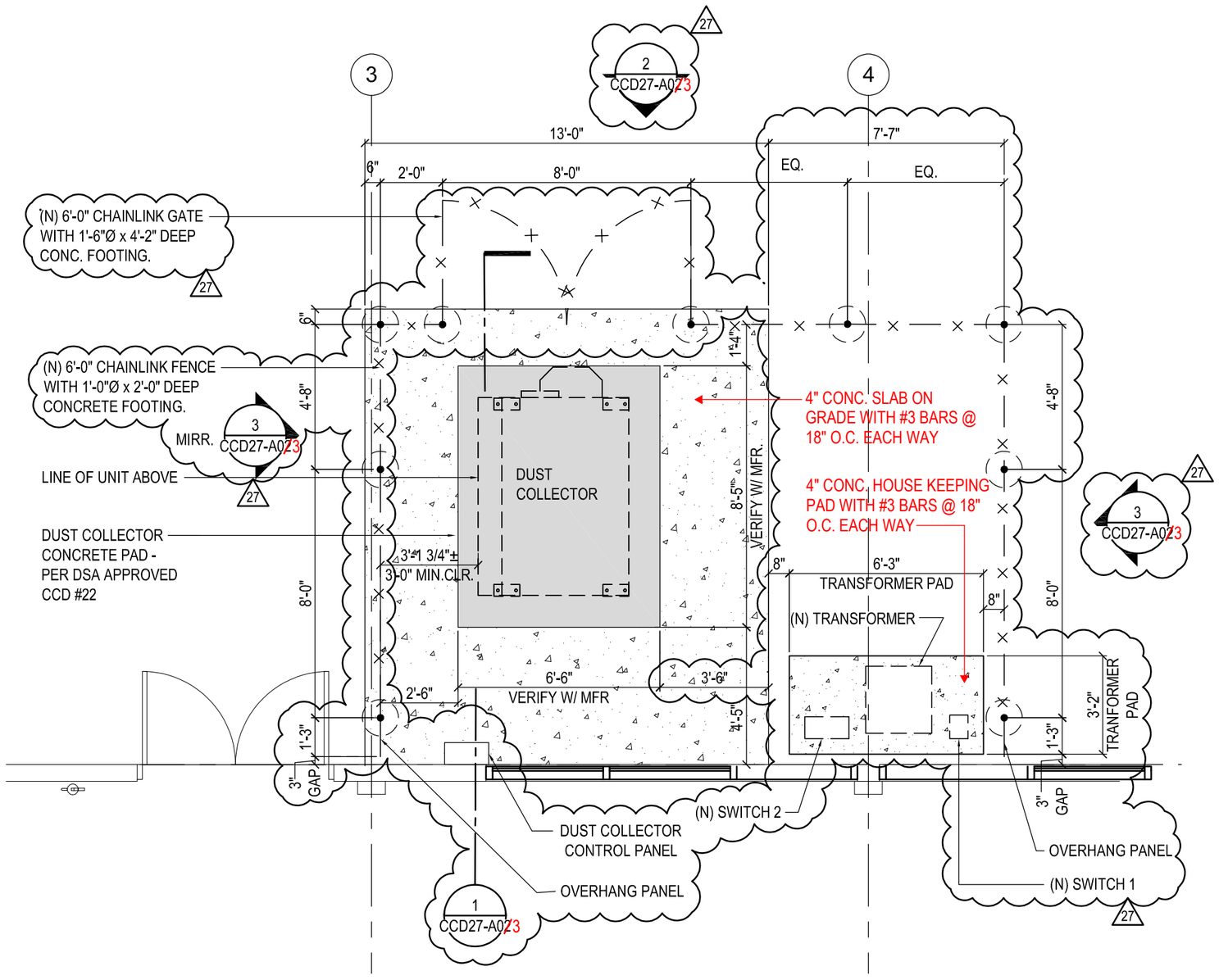
BUILDING "I" RECONSTRUCTUION FLOOR PLAN

CAMARILLO HIGH SCHOOL ALTERATION PROJECT
for
OXNARD UNION HIGH SCHOOL DISTRICT
4660 MISSION OAKS BLVD.,
CAMARILLO, CA 93012

Date
02-01-2023

Job No.
2840.100

Sheet No.
CCD27_A01



ENLARGED ENCLOSURE PLAN

SCALE : 1/4" = 1'-0"

1
CCD27_A02

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-120049 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/26/2024

FLEWELLING architecture planning interiors
Pasadena - 323 543 8300
Lancaster - 661 949 0771
www.flewelling-moody.com

LICENSED ARCHITECT
MATTHEW BUCHANAN
C-26053
Ren. Date 08/31/2025
STATE OF CALIFORNIA

CCD 27

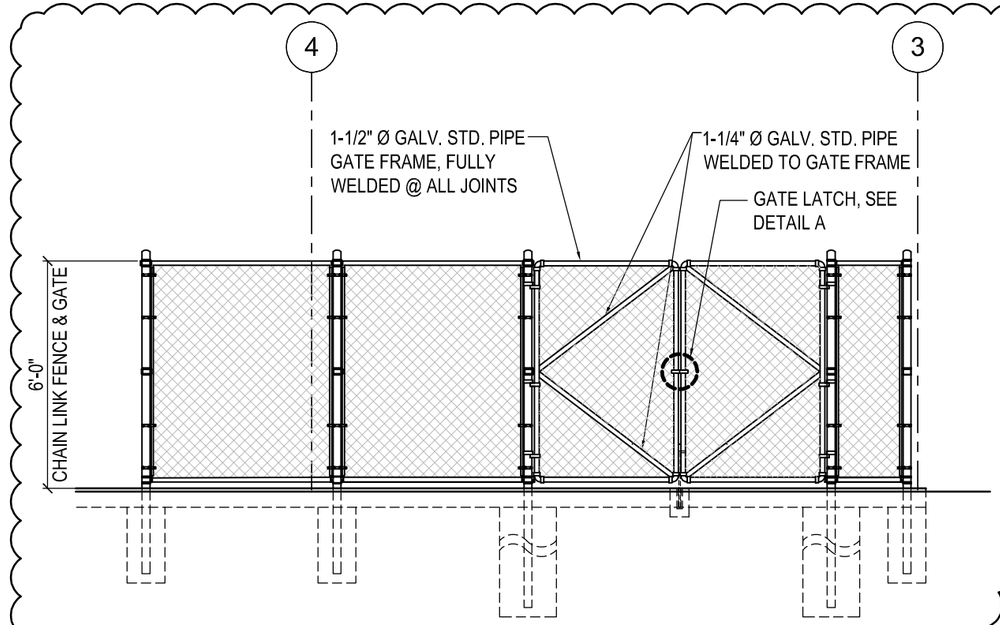
ENLARGED ENCLOSURE PLAN

CAMARILLO HIGH SCHOOL ALTERATION PROJECT
for
OXNARD UNION HIGH SCHOOL DISTRICT
4660 MISSION OAKS BLVD.,
CAMARILLO, CA 93012

Date 02-01-2023

Job No. 2840.100

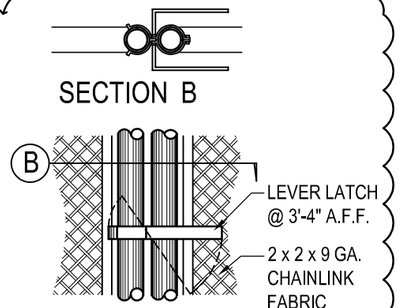
Sheet No. CCD27_A02



FENCE ELEVATION

SCALE : 1/4" = 1'-0"

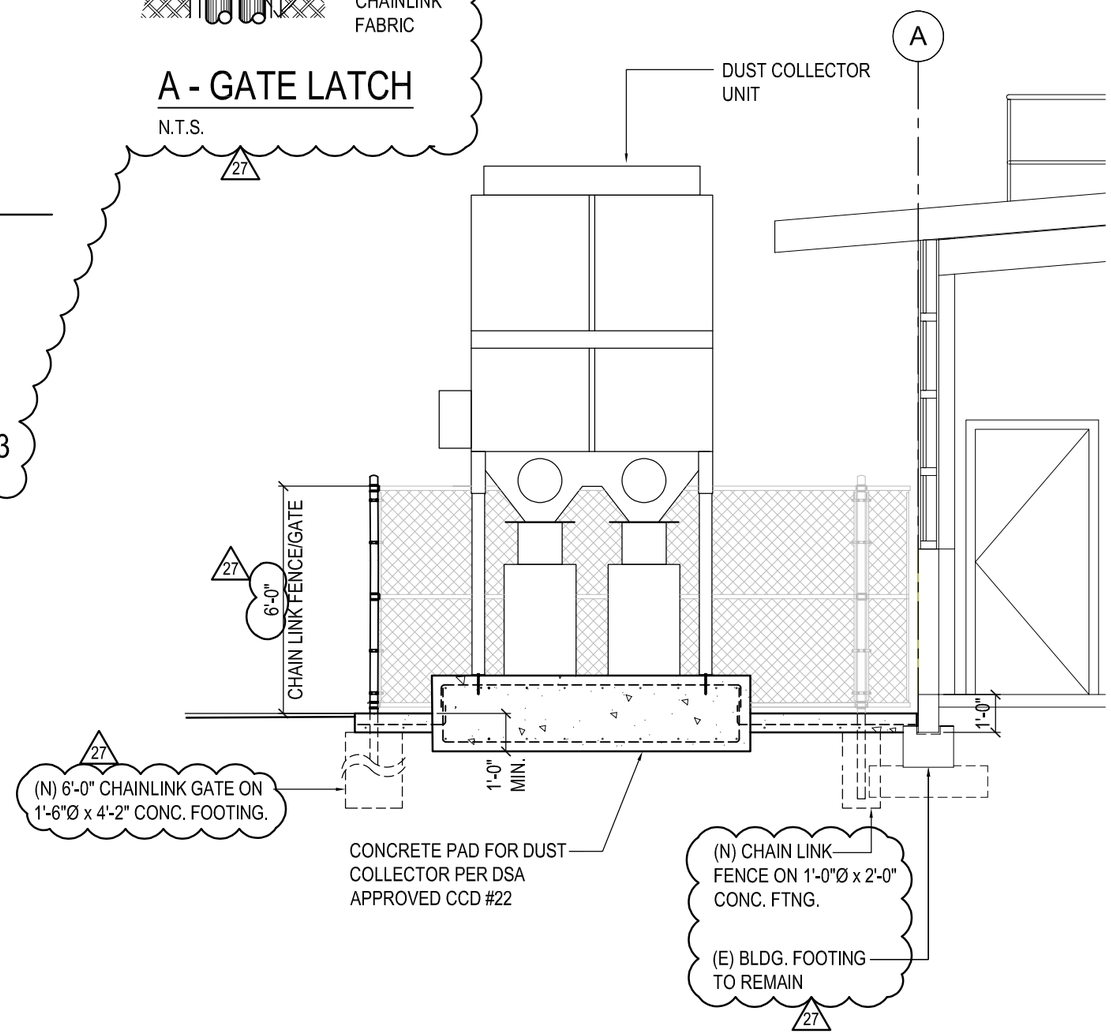
2
CCD22_A03



A - GATE LATCH

N.T.S.

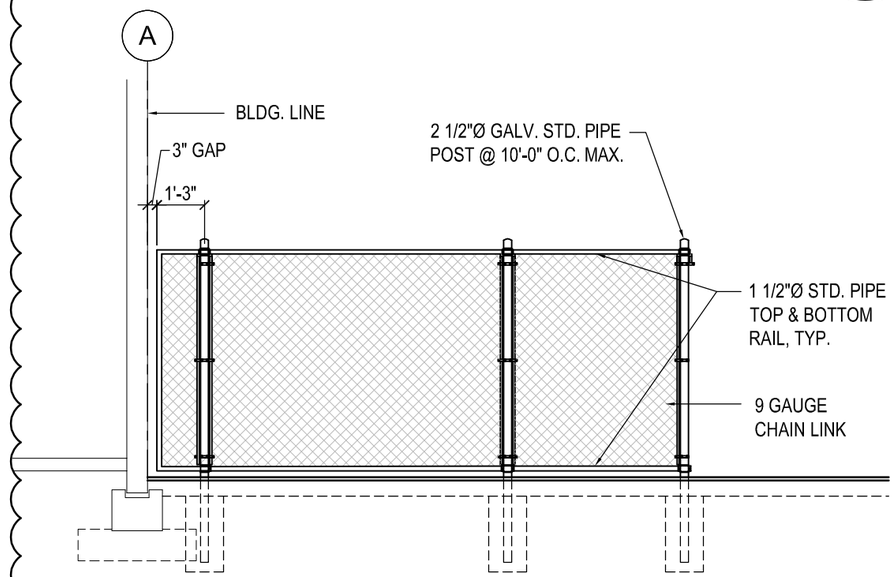
27



CONCRETE PAD SECTION

SCALE : 1/4" = 1'-0"

1
CCD22_A03



FENCE ELEVATION

SCALE : 1/4" = 1'-0"

3
CCD22_A03

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-120049 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/26/2024

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LICENSED ARCHITECT
MICHAEL BUCHANAN
C-26053
Ren. Date 08/31/2025
STATE OF CALIFORNIA

CCD 27

ENCLOSURE SECTION AND ELEVATIONS

CAMARILLO HIGH SCHOOL ALTERATION PROJECT
for
OXNARD UNION HIGH SCHOOL DISTRICT
4660 MISSION OAKS BLVD.,
CAMARILLO, CA 93012

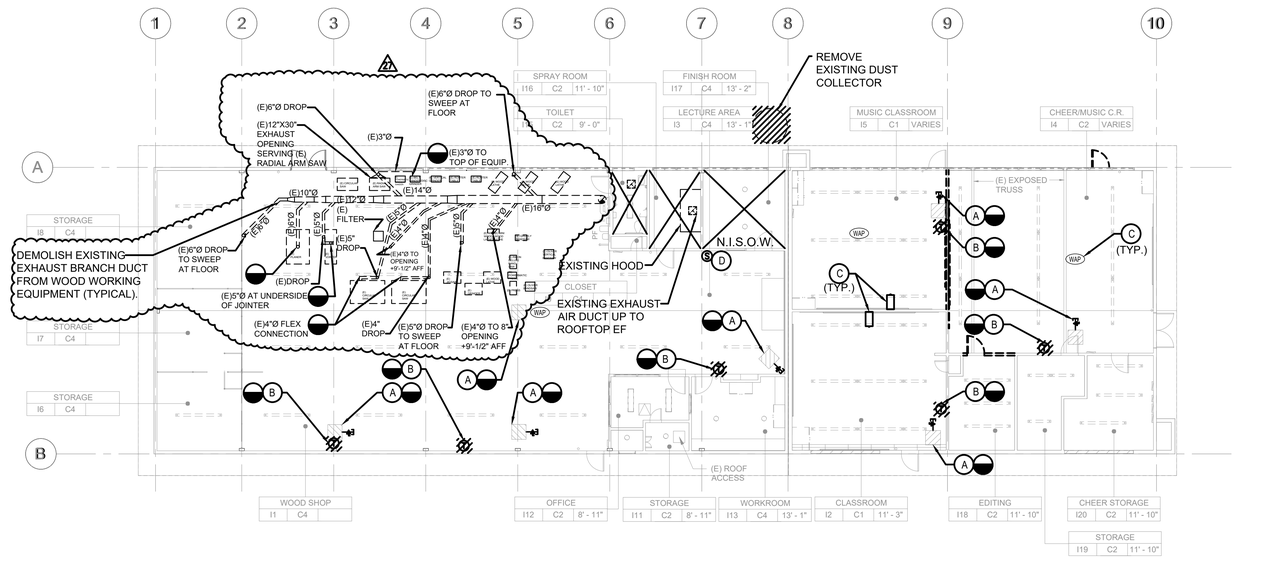
Date 02-01-2023

Job No. 2840.100

Sheet No. CCD27_A03

DEMOLITION KEYNOTES

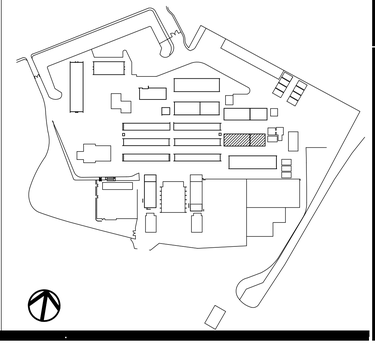
- (A) REMOVE EXISTING FURNACE WITH ALL RELATED ACCESSORIES. PATCH/SEAL AND PAINT WALL/CEILING TO MATCH EXISTING.
- (B) REMOVE EXISTING WALL THERMOSTAT. PATCH/SEAL AND PAINT WALL TO MATCH EXISTING.
- (C) EXISTING WAP AND PROJECTORS ARE SHOWN ONLY FOR REFERENCE. 27
- (D) REMOVE EXISTING SWITCH FOR DUST COLLECTOR.



1 BUILDING 'I' DEMOLITION HVAC PLAN
3/32" = 1'-0"

AS REVISED
CCD 27
DSA A# 03-120049

KEY PLAN



APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-120049 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/26/2024

FLEWELLING & MOODY
architects for education

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E-Mail: fm-lancaster@flewelling-moody.com

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ARCHITECT

CONSULTANT

BUDLONG & ASSOCIATES, INC
MEP CONSULTING ENGINEERS
Job No. 18-439
CAMARILLO OFFICE
GLENDALE OFFICE

REGISTERED PROFESSIONAL ENGINEER
No. 29448
EXP. 06-30-25
STATE OF CALIFORNIA

Drawn by: -
Check by: -

Revisions

No.	Date	Description
27	02/01/2024	CCD 27A

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT

CAMARILLO HIGH SCHOOL ALERATIONS PROJECT

4660 MISSION OAKS BLVD.
CAMARILLO, CA 93012

Drawing Title

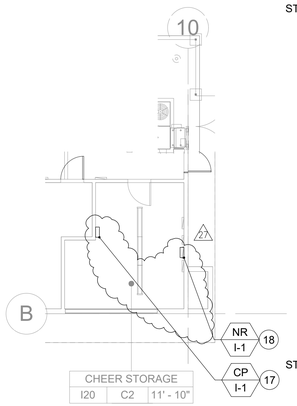
CLASSROOM BUILDING 'I'
DEMOLITION
HVAC PLAN

Job No. 2840.100

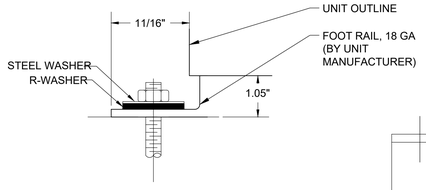
Sheet No. MI-217D

Date 09/08/2020

J:\18-439 F&M OUHSD Camarillo HS HVAC Upgrade\M\18-439 MI-217D Classroom Building 'I' Demolition HVAC Plan.dwg, 2/6/2024 12:44:23 PM, patrick



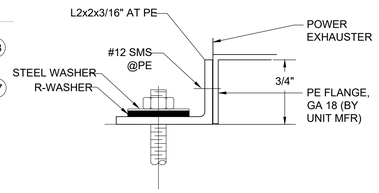
NOTE:
ENLARGED PLAN IS TO SHOW LOCATIONS OF THE CONTROL PANELS. REFER TO CONTROLS RISER DIAGRAMS FOR WIRING.



NOTES:
1. USE 3/8" DIA. STAINLESS STEEL TITEN HD ANCHOR BOLT, 3" PENETRATION, 4" EDGE DISTANCE

DETAIL 'E'
HP ANCHORAGE

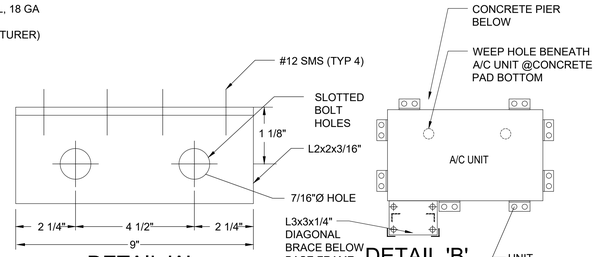
SCALE: NONE



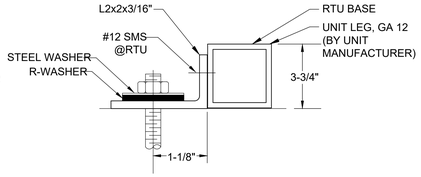
NOTES:
1. USE 3/8" DIA. STAINLESS STEEL ANCHOR BOLT TO STEEL ANGLE

DETAIL 'D'
PE ANCHORAGE

SCALE: NONE



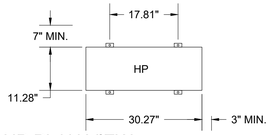
DETAIL 'A'
DETAIL 'B'



NOTES:
1. USE 3/8" DIA. STAINLESS STEEL TITEN HD ANCHOR BOLT, 3" PENETRATION, 4" EDGE DISTANCE

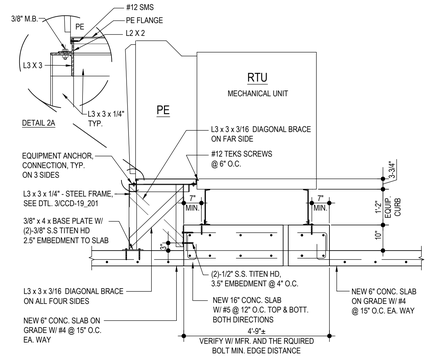
DETAIL 'C'
RTU ANCHORAGE

SCALE: NONE

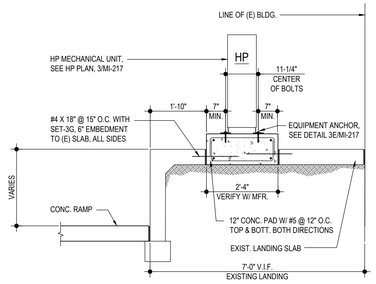


HP PLAN VIEW

SCALE: NONE



RTU/I-2, RTU/I-4 & RTU/I-5



HP SECTION

CONSTRUCTION KEYNOTES

1. PROVIDE NEW 6"Ø OSA DUCT FROM ABOVE. CONNECT TO NEW FAN COIL UNIT.
2. PROVIDE CASSETTE TYPE FCU PER SCHEDULE.
3. PROVIDE SUPPLY AIR DIFFUSER PER SCHEDULE.
4. PROVIDE SUPPLY AIR GRILLE PER SCHEDULE.
5. PROVIDE RETURN AIR GRILLE PER SCHEDULE.
6. INSTALL NEW THERMOSTAT WITH ALL THE RELATED ACCESSORIES. PROVIDE MANEUVERING SPACE CLEAR OF OBSTRUCTIONS.
7. PROVIDE BOOSTER FAN.
8. PROVIDE NEW AIR FILTER PER SCHEDULE.
9. EXISTING EXHAUST AIR DUCT UP TO ROOF TOP EXHAUST FAN. SHOWN FOR REFERENCE ONLY.
10. PROVIDE UNDER CEILING TYPE FCU PER SCHEDULE.
11. EXISTING HOOD SHOWN FOR REFERENCE ONLY. 27
12. PROVIDE SWITCH FOR DUST COLLECTOR.
13. NEW SA AND RA DUCT FROM THE UNIT ABOVE.
14. PROVIDE 30"x30" CEILING ACCESS PANEL.
15. FOR CONDENSATE DRAIN SEE PLUMBING PLAN.
16. PROVIDE DUCT SILENCER PER SCHEDULE.
17. PROVIDE NEW 120V CONTROL PANEL WITH ALL RELATED ACCESSORIES. PROVIDE MOUNTING AS REQUIRED. SEE ELECTRICAL FOR MORE INFORMATION.
18. PROVIDE NEW 120V NETWORK LINK WITH ALL RELATED ACCESSORIES. PROVIDE MOUNTING AS REQUIRED. SEE ELECTRICAL FOR MORE INFORMATION.
19. PROVIDE ROOF TOP UNIT PER SCHEDULE. REFER TO 3/MI-217 FOR MOUNTING DETAIL
20. PROVIDE FLUE EXTENSION KIT.
21. PROVIDE HEAT PUMP UNIT PER SCHEDULE. MOUNT TO EXISTING CONCRETE LANDING.
22. POWER EXHAUSTER REFER DETAIL #3/M-602.
23. PROVIDE CROSSOVER.

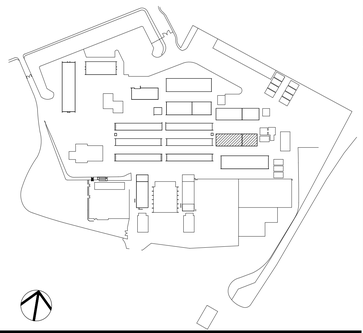
27

24. FLOOR SWEEP.
25. FLEXIBLE DUCT CONNECTION TO (E) EQUIPMENT.
26. 12"X30" EXHAUST OPENING AT (E) EQUIPMENT.
27. CONNECT FLEXIBLE DUCT TO BOTTOM OF (E) EQUIPMENT.
28. 14" DIAMETER VIGIFLAP EXPLOSION ISOLATION CHECK VALVE. MECHANICAL CONTRACTOR TO CONFIGURE DUST COLLECTOR TO SHUT OFF IN THE EVENT OF AN EXPLOSION.
29. DUST COLLECTOR - 6,500 CFM AT 8" WG.

27

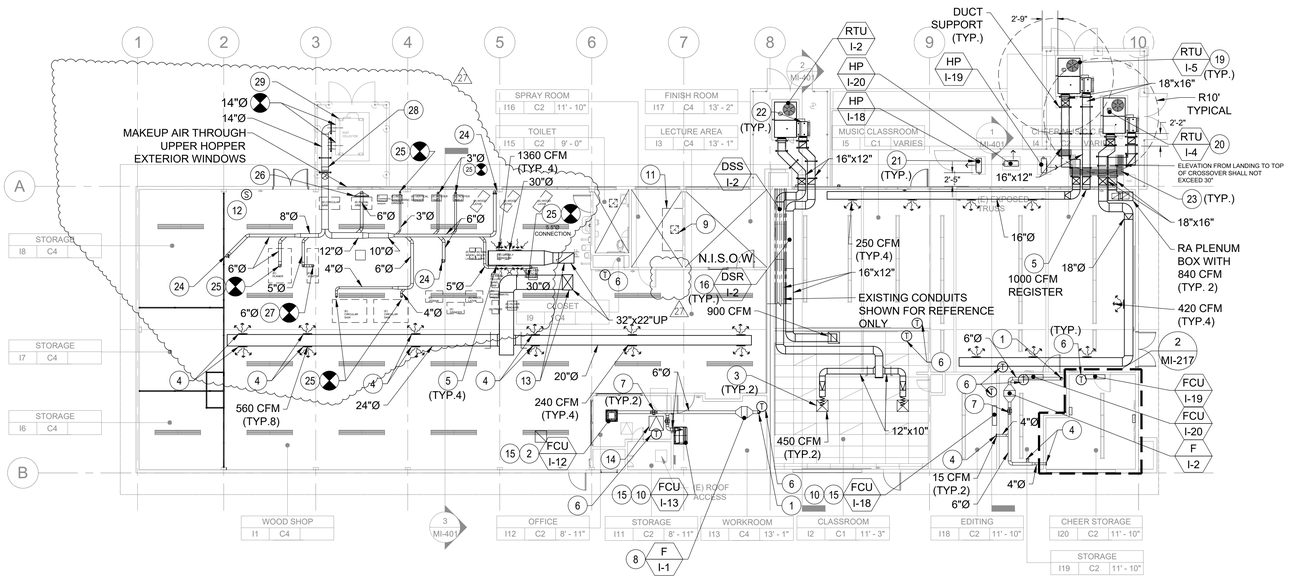
NOTES:
1. EXHAUST DUCT INSTALLER SHALL PROVIDE EXTRA COMPONENTS AND COUPLINGS FOR RETROFITS - TURN OVER TO DISTRICT AT COMPLETION OF PROJECT.
2. DUST COLLECTOR DUCTWORK SHALL BE GALVANIZED SHEET METAL.

KEY PLAN



2 CONTROL PANELS ENLARGED PLAN
1/8" = 1'-0"

3 RTU/ PE AND HP ANCHORAGE AT BUILDING I
NTS



1 CLASSROOM BUILDING 'I' RECONSTRUCTION HVAC PLAN
3/32" = 1'-0"

01/08/2026:
DUST COLLECTOR EXHAUST DUCT REVISIONS PER DISTRICT REQUEST

FLEWELLING & MOODY
architects *for* education

HEADQUARTERS OFFICE:
815 Colorado Blvd. Suite 200
Los Angeles, California 90041
323.543.8300 fax 323.543.8198
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E-Mail: fm-lancaster@flewelling-moody.com

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ARCHITECT

CONSULTANT

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MEP CONSULTING ENGINEERS
Job No. 18-439
CAMARILLO OFFICE
426 W VENTURA BLVD STE 240
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TEL: (805)987-4001
GLENDALE OFFICE
411 N KENDEL AVE, STE 23
GLENDALE, CA 91203
TEL: (818)638-8760

REGISTERED PROFESSIONAL ENGINEER
SUNIL PATEL
No. 29448
EXP. 06-30-27
MECHANICAL
STATE OF CALIFORNIA

Drawn by: -
Check by: -

Revisions

No.	Date	Description
27	02/01/2024	CCD 27A

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT

CAMARILLO HIGH SCHOOL ALERATIONS PROJECT

4660 MISSION OAKS BLVD.
CAMARILLO, CA 93012

Drawing Title

CLASSROOM BUILDING 'I'
RECONSTRUCTION
HVAC PLAN

Job No. 2840.100

Sheet No. MI-217

Date 09/08/2020

GENERAL NOTES

MEP Component Anchorage Note
All mechanical, plumbing, and electrical components shall be anchored and installed per details on the DSA approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2016 CBC, Sections 1616A. 1.18 through 1616A. 1.26 and ASCE 7-10 Chapter 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas, or water. "Permanently attached" shall include all electrical connections except plugs for duplex receptacles.
3. Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

A. Components weighing less than 400 pounds and having a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.

B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from the roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

Piping, Ductwork, Electrical Distribution System Bracing Note Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Sections 13.6.5.6, 13.6.7, 13.6.8; and 2016 CBC, Sections 1616A.1.24, 1616A. 1.25 and 1616A. 1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite 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 hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping, (PP), Electrical Distribution Systems (E)

MP☐MD☐ PP ☐E ☐-Option 1: Detailed on the approved drawings with project specific notes and details.

MP☐MD☐ PP ☒ E☐ -Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#0203-13)

PLUMBING EQUIPMENT SCHEDULE

EQUIP. NO.	EQUIPMENT	GAS CFH	HEAD FEET	ELEC AMPS	ELEC V	ELEC PH	SIZE	MANUF.	MODEL	LBS.	REMARKS
EQ-1	EARTHQUAKE VALVE	-	-	-	-	-	3/4"	PACIFIC	VB310	-	INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL #1/P-002
EQ-2	EARTHQUAKE VALVE	-	-	-	-	-	1"	PACIFIC	VB311	-	INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL #1/P-002
EQ-3	EARTHQUAKE VALVE	-	-	-	-	-	1-1/4"	PACIFIC	VB312	-	INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL #1/P-002
EQ-4	EARTHQUAKE VALVE	-	-	-	-	-	1-1/2"	PACIFIC	VB313	-	INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL #1/P-002
EQ-5	EARTHQUAKE VALVE	-	-	-	-	-	2"	PACIFIC	VB314	-	INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL #1/P-002
EQ-6	EARTHQUAKE VALVE	-	-	-	-	-	3"	PACIFIC	VB315	-	INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL #1/P-002
GR-1	GAS REGULATOR	-	-	-	-	-	3/4"	SENSUS	143-80-2	-	3/4" INCH INLET AND 3/4" OUTLET COLOR GREEN ORIFICE 3/8" SEE DETAIL #1/P-002
GR-2	GAS REGULATOR	-	-	-	-	-	1"	SENSUS	143-80-2	-	1" INLET AND 1" OUTLET COLOR BLACK ORIFICE 1/2" SEE DETAIL #1/P-002
GR-3	GAS REGULATOR	-	-	-	-	-	1-1/4"	SENSUS	243-12-2	-	1-1/4" INLET AND 1-1/4" OUTLET COLOR GREEN ORIFICE 1/2" SEE DETAIL #1/P-002
GR-4	GAS REGULATOR	-	-	-	-	-	1-1/2"	SENSUS	143-80-2	-	1-1/2" INLET AND 1-1/2" OUTLET COLOR GREEN ORIFICE 1/2" SEE DETAIL #1/P-002
GR-5	GAS REGULATOR	-	-	-	-	-	2"	SENSUS	243-12-2	-	2" INLET AND 2" OUTLET COLOR GREEN ORIFICE 1-1/4" SEE DETAIL #1/P-002
GR-6	GAS REGULATOR	-	-	-	-	-	3"	SENSUS	243-12-2	-	3" INLET AND 3" OUTLET COLOR GREEN ORIFICE 1-1/4" SEE DETAIL #1/P-002
CP-1	CONDENSATE PUMP	-	-	1.5	115	1	1/4"	LITTLE GIANT OR EQUAL	VCC-20ULS	-	PROVIDE CONDENSATE PUMP FOR FAN COIL UNIT. SEE DET. #6 P-002.
TD-1	TRENCH DRAIN	-	-	-	-	-	-	JR SMITH	9940 WITH ADA GRATE # 9870-47IM-ADA	-	INSTALL PER MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL #7 AND 8/P-002
RP-1	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	-	-	-	3/4"	FEBCO	LF860 SMALL	-	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING PIPE AND FITTING SCHEDULE

TYPE	MATERIAL	FITTINGS	LOCATION
CW	TYPE "L" HARD COPPER	WROUGHT COPPER	ABOVE GRADE
	TYPE CPVC SCH 40	PLASTIC PIPE CEMENT JOINTS	BELOW GRADE
CD, PCD	TYPE "L" HARD COPPER	WROUGHT COPPER	INSIDE BUILDING
	TYPE CPVC SCH 40	PLASTIC PIPE CEMENT JOINTS	EXTERIOR OF BUILDING & BELOW GRADE
GAS (LOW PRESSURE)	BLACK STEEL	BLACK STEEL	ABOVE GRADE
MEDIUM PRESSURE GAS	POLYETHYLENE	POLYETHYLENE	BELOW GRADE WITH TRACER WIRE
WASTE AND VENT	ABS ASTM D3965, NSF 14, ASTM F628, D2661	ABS ASTM D3965, NSF 14, ASTM F628, D2661	BELOW GRADE
VENT	NO-HUB CAST IRON	NO-HUB CAST\ IRON	ABOVE GRADE

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
—CD—	CD	CONDENSATE DRAIN PIPING
—PCD—	PCD	PUMPED CONDENSATE DRAIN PIPING
—EMPG—	EMPG	EXISTING MEDIUM PRESSURE GAS PIPING
—MPG—	MPG	MEDIUM PRESSURE GAS PIPING
—EG—	EG	EXISTING FUEL GAS PIPING
— G —	G	FUEL GAS PIPING
— — ES — —	ES	EXISTING WASTE PIPING BELOW FINISHED GRADE
	-	DROP IN PIPE
	-	RISE IN PIPE
	BV	BALL VALVE
	-	GAS SHUT-OFF COCK
	POC	POINT OF CONNECTION
	POD	POINT OF DISCONNECTION
	SOV	SHUT-OFF VALVE
	GR	GAS REGULATOR
	EQ	EARTHQUAKE VALVE
P-1		DETAIL REFERENCE, DETAIL 1, SHEET NUMBER P-1
—ICW—	ICW	INDUSTRIAL COLD WATER

BUILDING GAS REGULATORS

BUILDING	MAIN (MPG) - 5PSI	TAG	
A	1" GAS REGULATOR	GR-2	700
B	1" GAS REGULATOR	GR-2	400
C	1" GAS REGULATOR	GR-2	600
D	3/4" GAS REGULATOR	GR-1	150
	3/4" GAS REGULATOR	GR-1	250
	3/4" GAS REGULATOR	GR-1	100
E	1" GAS REGULATOR	GR-2	400
F	3/4" GAS REGULATOR	GR-1	200
G	1" GAS REGULATOR	GR-2	400
H	1" GAS REGULATOR	GR-2	400
I	3/4" GAS REGULATOR	GR-1	250
	3/4" GAS REGULATOR	GR-1	200
J	3/4" GAS REGULATOR	GR-1	250
K	1-1/4" GAS REGULATOR	GR-3	800
L	1-1/4" GAS REGULATOR	GR-3	1000
M	1-1/2" GAS REGULATOR	GR-4	1500
N	1-1/2" GAS REGULATOR	GR-4	1500
O	1-1/4" GAS REGULATOR	GR-3	1100
	1" GAS REGULATOR	GR-2	300
P	3/4" GAS REGULATOR	GR-1	100
Q	3/4" GAS REGULATOR	GR-1	120
R	3/4" GAS REGULATOR	GR-1	400
S	1-1/4" GAS REGULATOR	GR-3	800
U	1-1/4" GAS REGULATOR	GR-3	1000
V	1" GAS REGULATOR	GR-2	400
W	1-1/4" GAS REGULATOR	GR-3	1000
X	3/4" GAS REGULATOR	GR-1	250
Y	3/4" GAS REGULATOR	GR-1	250
AQUATIC	(E) GAS REGULATOR	(E)3"	(E) 4700
Z	2" GAS REGULATOR	GR-5	1000
AG BLDG	2" GAS REGULATOR	GR-1	500
STUBS	NA	NA	700
TOTAL			21720

BUILDING EARTHQUAKE VALVES

BUILDING	MAIN (LPG) - 8" W.C.	TAG	(CFH)
A	2" EARTHQUAKE VALVE	EQ-5	700
B	1-1/2" EARTHQUAKE VALVE	EQ-4	400
C	2" EARTHQUAKE VALVE	EQ-5	600
D	1" EARTHQUAKE VALVE	EQ-2	150
	1-1/4" EARTHQUAKE VALVE	EQ-3	250
	3/4" EARTHQUAKE VALVE	EQ-1	100
E	2" EARTHQUAKE VALVE	EQ-5	400
F	1" EARTHQUAKE VALVE	EQ-2	200
G	1-1/2" EARTHQUAKE VALVE	EQ-4	400
H	1-1/2" EARTHQUAKE VALVE	EQ-4	400
I	1-1/4" EARTHQUAKE VALVE	EQ-3	250
	1" EARTHQUAKE VALVE	EQ-2	200
J	1-1/4" EARTHQUAKE VALVE	EQ-3	250
K	2" EARTHQUAKE VALVE	EQ-5	800
L	3" EARTHQUAKE VALVE	EQ-6	1000
M	3" EARTHQUAKE VALVE	EQ-6	1500
N	3" EARTHQUAKE VALVE	EQ-6	1500
O	2" EARTHQUAKE VALVE	EQ-5	1100
	1-1/4" EARTHQUAKE VALVE	EQ-3	300
P	1" EARTHQUAKE VALVE	EQ-2	100
Q	1" EARTHQUAKE VALVE	EQ-2	120
R	1-1/2" EARTHQUAKE VALVE	EQ-4	400
S	2" EARTHQUAKE VALVE	EQ-5	800
U	2" EARTHQUAKE VALVE	EQ-5	1000
V	1-1/2" EARTHQUAKE VALVE	EQ-4	400
W	2" EARTHQUAKE VALVE	EQ-5	1000
X	1" EARTHQUAKE VALVE	EQ-2	250
Y	1" EARTHQUAKE VALVE	EQ-2	250
AQUATIC	3/4" EARTHQUAKE VALVE	EQ-5	(E) 4700
Z	1-1/4" EARTHQUAKE VALVE	EQ-3	1000
AG BLDG	2" EARTHQUAKE VALVE	EQ-5	500
STUBS	NA	NA	700
TOTAL			21720

PLUMBING FIXTURE SCHEDULE

	FIXTURE TAG	CW/W	REMARKS
HB-1	HOSE BIBB	3/4" (CW)	WOODFORD MODEL- RHY2-MS, WITH VACUUM BREAKER. FOR EXTERIOR BUILDING.WITH VACUUM BREAKER
RP-1	REDUCED PRESSURE BACKFLOW PREVENTOR	3/4" (CW)	FEBCO LF860 INSTALL PER MANUFACTURER'S INSTRUCTIONS.
FS-1	REDUCED PRESSURE BACKFLOW PREVENTOR	3" (W)	ZURN FD2375 INSTALL PER MANUFACTURER'S INSTRUCTIONS.

AS REVISED
CCD 27
DSA A# 03-120049

GENERAL NOTES

1. ALL WORK SHALL BE IN CONFORMANCE WITH TITLE 24, 2019 CALIFORNIA CODE OF REGULATIONS (CCR) 2019 CALIFORNIA PLUMBING CODE, PART 5 , TITLE 24 CCR (2015,UNIFORM PLUMBING CODE OF THE INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS, IAPMO)
2. GENERAL NOTES, SYMBOLS AND ABBREVIATION LISTS ARE COMPOSITE. ALL NOTES, SYMBOLS AND ABBREVIATIONS MIGHT NOT BE USED ON THIS PROJECT.
3. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF CALIFORNIA CODE OF REGULATIONS TITLE 24 AND LOCAL CODES AS APPLIED BY THE AUTHORITY HAVING JURISDICTION.
4. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOULD NOT BE SCALED TO ESTABLISH LOCATION OF WORK. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND MAKE ADJUSTMENTS TO DIMENSIONS AS NECESSARY TO COMPLETE THE WORK.
5. THE CONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO THE START OF THE WORK TO ASSURE ALL WORK CAN BE PROPERLY INSTALLED WITHOUT INTERFERENCE OR DELAY.
6. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.
7. CONTRACTOR SHALL THOROUGHLY EXAMINE PREMISES AND OBSERVE ALL CONDITIONS, INCLUDING SEWER INVERT ELEVATIONS AND WATER PRESSURE, AND CIRCUMSTANCES UNDER WHICH THE WORK SHALL BE PERFORMED. NO ALLOWANCES WILL BE MADE FOR ERRORS OR NEGLIGENCE IN THIS RESPECT.
8. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
9. ALL SPECIFIED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND THE STRICTEST OF APPLICABLE CODES.
10. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
11. ANY EQUIPMENT, DUCTWORK, OR PIPING INSTALLED MORE THAN 1 FT FROM THE LOCATION SHOWN ON THE DRAWINGS SHALL BE CLEARLY DOCUMENTED IN THE FIELD. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS TO CLEARLY SHOW THE LOCATION OF THE EQUIPMENT BEFORE COMPLETION OF THE PROJECT. ALL EXPENSE RELATING TO VERIFY THE AS-BUILT DRAWINGS BY THE CLIENT OR ITS REPRESENTATIVE(S) DUE TO INACCURATE OR INCOMPLETE RECORDS SHALL BE BORN BY THE CONTRACTOR.
12. ALL FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGE. REFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.
13. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
14. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.
15. PROVIDE FLASHING AND/OR COUNTER FLASHING AT ALL EXTERIOR PENETRATIONS.
16. ALL OPENINGS IN WALLS, CEILINGS, AND FLOORS RESULTING FROM DEMOLITION SHALL BE CLOSED AND FINISHED TO MATCH THE SURROUNDING.
17. ALL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION CONFORMING TO ASCE 7-05 SECTION 13.3.1 AND TABLE 13.6-1.
18. THE SEISMIC BRACING OF DUCTS AND PIPING SHALL BE IN ACCORDANCE WITH THE "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS" AS PUBLISHED BY SMACNA, LATEST EDITION.
19. A COPY OF THE LATEST EDITION OF "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS" AS PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB SITE AT ALL TIMES.
20. ALL CEILING AND WALL PENETRATIONS SHALL BE COORDINATED WITH STRUCTURAL JOISTS AND BEAMS. PROVIDE OFFSETS IN PIPES AND DUCTS TO AVOID CUTTING OF BEAMS AND JOISTS.
21. MAINTAIN MINIMUM SEPARATION BETWEEN OUTSIDE AIR INTAKES OR OTHER OPENINGS INTO THE BUILDING 10'-0" AWAY.
22. CONTRACTOR SHALL PROVIDE EXTERNAL TRAPS FOR CONDENSATE DRAIN LINES FOR ALL COOLING COILS.
23. HOSE BIBBS AT ROOFS ARE FOR MAINTENANCE PURPOSES ONLY AND NOT REQUIRED BY CODE. INSTALL ROOF HOSE BIBBS ONLY AT BUILDINGS THAT HAVE WATER SUPPLY. CONTRACTOR TO VERIFY EXACT LOCATION IN THE FIELD.

PLUMBING SHEET INDEX

P-001	PLUMBING FRONT SHEET
P-002	PLUMBING DETAILS
P-003	PLUMBING DETAILS
P-101	PLUMBING DEMOLITION SITE GAS PLAN
P-101A	PLUMBING DEMOLITION ENLARGED GAS SITE PLAN - WEST
P-101B	PLUMBING DEMOLITION ENLARGED GAS SITE PLAN - EAST
P-101C	PLUMBING DEMOLITION ENLARGED GAS SITE PLAN - SOUTH
P-102	PLUMBING NEW SITE GAS PLAN
P-102A	PLUMBING NEW ENLARGED GAS SITE PLAN - WEST
P-102B	PLUMBING NEW ENLARGED GAS SITE PLAN - EAST
P-102C	PLUMBING NEW ENLARGED GAS SITE PLAN - SOUTH
P-103A	PLUMBING DEMOLITION GAS RISER DIAGRAMS
P-103B	PLUMBING DEMOLITION GAS RISER DIAGRAMS
P-103C	PLUMBING DEMOLITION GAS RISER DIAGRAMS
P-103D	PLUMBING DEMOLITION GAS RISER DIAGRAMS
P-104A	PLUMBING NEW GAS RISER DIAGRAMS
P-104B	PLUMBING NEW GAS RISER DIAGRAMS
P-104C	PLUMBING NEW GAS RISER DIAGRAMS
P-104D	PLUMBING NEW GAS RISER DIAGRAMS
P-104E	PLUMBING NEW GAS RISER DIAGRAMS
PA-201D	BUILDING 'A' DEMOLITION PLUMBING FLOOR PLAN
PA-201	BUILDING 'A' PLUMBING FLOOR PLAN
PA-202	BUILDING 'A' PLUMBING ROOF PLAN
PB-201D	BUILDING 'B' DEMOLITION PLUMBING FLOOR PLAN
PB-201	BUILDING 'B' PLUMBING FLOOR PLAN
PB-202	BUILDING 'B' PLUMBING ROOF PLAN
PC-201D	BUILDING 'C' DEMOLITION PLUMBING FLOOR PLAN
PC-201	BUILDING 'C' PLUMBING FLOOR PLAN
PC-202	BUILDING 'C' PLUMBING ROOF PLAN
PD-201D	BUILDING 'D' DEMOLITION PLUMBING FLOOR PLAN
PD-201	BUILDING 'D' PLUMBING FLOOR PLAN
PD-202	BUILDING 'D' PLUMBING ROOF PLAN
PE-201D	BUILDING 'E' DEMOLITION PLUMBING FLOOR PLAN
PE-201	BUILDING 'E' PLUMBING FLOOR PLAN
PE-202	BUILDING 'E' PLUMBING ROOF PLAN
PF-201D	BUILDING 'F' DEMOLITION PLUMBING FLOOR PLAN
PF-201	BUILDING 'F' PLUMBING FLOOR PLAN
PF-202	BUILDING 'F' PLUMBING ROOF PLAN
PG-201D	BUILDING 'G' DEMOLITION PLUMBING FLOOR PLAN
PG-201	BUILDING 'G' PLUMBING FLOOR PLAN
PG-202	BUILDING 'G' PLUMBING ROOF PLAN
PH-201D	BUILDING 'H' DEMOLITION PLUMBING FLOOR PLAN
PH-201	BUILDING 'H' PLUMBING FLOOR PLAN
PH-202	BUILDING 'H' PLUMBING ROOF PLAN
PI-201D	BUILDING 'I' DEMOLITION PLUMBING FLOOR PLAN
PI-201	BUILDING 'I' PLUMBING FLOOR PLAN
PI-202	BUILDING 'I' PLUMBING ROOF PLAN
PJ-201D	BUILDING 'J' DEMOLITION PLUMBING FLOOR PLAN
PJ-201	BUILDING 'J' PLUMBING FLOOR PLAN
PJ-202	BUILDING 'J' PLUMBING ROOF PLAN
PK-201D	BUILDING 'K' DEMOLITION PLUMBING FLOOR PLAN
PK-201	BUILDING 'K' PLUMBING FLOOR PLAN
PK-202	BUILDING 'K' PLUMBING ROOF PLAN
PL-201D	BUILDING 'L' DEMOLITION PLUMBING FLOOR PLAN
PL-201	BUILDING 'L' PLUMBING FLOOR PLAN
PL-202	BUILDING 'L' PLUMBING ROOF PLAN
PM-201D	BUILDING 'M' DEMOLITION PLUMBING FLOOR PLAN
PM-201	BUILDING 'M' PLUMBING FLOOR PLAN
PM-202	BUILDING 'M' PLUMBING ROOF PLAN
PN-201D	BUILDING 'N' DEMOLITION PLUMBING FLOOR PLAN
PN-201	BUILDING 'N' PLUMBING FLOOR PLAN
PN-202	BUILDING 'N' PLUMBING ROOF PLAN
PO-201D	BUILDING 'O' DEMOLITION PLUMBING FLOOR PLAN
PO-201	BUILDING 'O' PLUMBING FLOOR PLAN
PO-202	BUILDING 'O' PLUMBING ROOF PLAN
PP-201D	BUILDING 'P' DEMOLITION PLUMBING FLOOR PLAN
PP-201	BUILDING 'P' PLUMBING FLOOR PLAN
PP-202	BUILDING 'P' PLUMBING ROOF PLAN
PQ-201D	BUILDING 'Q' DEMOLITION PLUMBING FLOOR PLAN
PQ-201	BUILDING 'Q' PLUMBING FLOOR PLAN
PQ-202	BUILDING 'Q' PLUMBING ROOF PLAN
PR-201D	BUILDING 'R' PLUMBING DEMOLITION FLOOR PLAN
PR-201	BUILDING 'R' PLUMBING FLOOR PLAN
PS-201D	BUILDING 'S' PLUMBING DEMOLITION FLOOR PLAN
PS-201	BUILDING 'S' PLUMBING FLOOR PLAN
PU-201D	BUILDING 'U' DEMOLITION PLUMBING FLOOR PLAN
PU-201	BUILDING 'U' PLUMBING FLOOR PLAN
PU-202	BUILDING 'U' PLUMBING ROOF PLAN
PV-201D	BUILDING 'V' DEMOLITION PLUMBING FLOOR PLAN
PV-201	BUILDING 'V' PLUMBING FLOOR PLAN
PV-202	BUILDING 'V' PLUMBING ROOF PLAN
PW-201D	BUILDING 'W' DEMOLITION PLUMBING FLOOR PLAN
PW-201	BUILDING 'W' PLUMBING FLOOR PLAN
PW-202	BUILDING 'W' PLUMBING ROOF PLAN
PX-201D	BUILDING 'X' DEMOLITION PLUMBING FLOOR PLAN
PX-201	BUILDING 'X' PLUMBING FLOOR PLAN
PX-202	BUILDING 'X' PLUMBING ROOF PLAN
PY-201D	BUILDING 'Y' DEMOLITION PLUMBING FLOOR PLAN
PY-201	BUILDING 'Y' PLUMBING FLOOR PLAN
PY-202	BUILDING 'Y' PLUMBING ROOF PLAN
PZ-201D	BUILDING 'Z' DEMOLITION PLUMBING FLOOR PLAN
PZ-201	BUILDING 'Z' PLUMBING FLOOR PLAN
PAA-201D	BUILDING AQUATIC CENTER DEMOLITION PLUMBING PLAN
PAA-201	BUILDING AQUATIC CENTER RECONSTRUCTION PLUMBING PLAN
PAA-202	BUILDING AQUATIC CENTER PLUMBING ROOF PLAN
PAB-201D	BUILDING AGRICULTURE PLUMBING DEMOLITION PLAN
PAB-201	BUILDING AGRICULTURE PLUMBING PLAN
P-301	PLUMBING FIRESTOPPING PENETRATION DETAILS

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-120049 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/26/2024

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CIVIL
No. 29448
EXP. 06-30-25
STATE OF CALIFORNIA

Drawn by: JA
Check by: WG

Revisions

No.	Date	Description
2	02/01/2024	CCD 27A

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT

CAMARILLO HIGH SCHOOL ALERATIONS PROJECT

4660 MISSION OAKS BLVD.
CAMARILLO, CA 93012

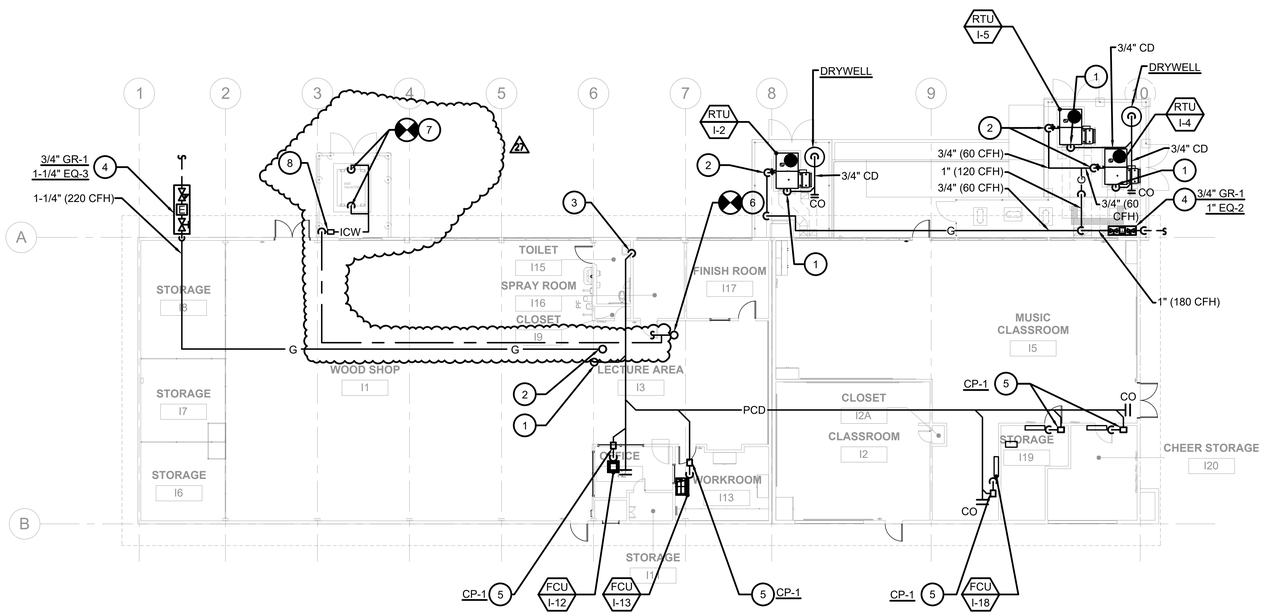
Drawing Title

PLUMBING
FRONT SHEET

Job No. 2840.100

Sheet No. P-001

Date 09/08/2020



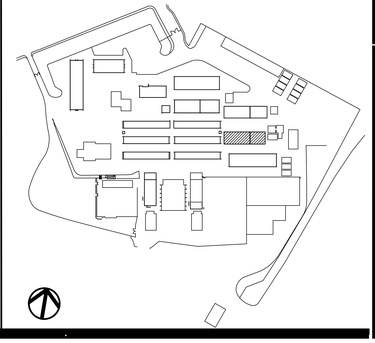
1 BUILDING 'I' PLUMBING FLOOR PLAN
3/32" = 1'-0"

CONSTRUCTION KEY NOTES

1. PROVIDE 3/4" CONDENSATE DRAIN TO THE MECHANICAL UNIT LOCATED ON ROOF. VERIFY EXACT LOCATION ON FIELD. SEE DETAIL #3 P002.
2. PROVIDE 3/4" GAS TO THE MECHANICAL UNIT LOCATED ON THE ROOF. VERIFY EXACT LOCATION ON FIELD. PROVIDE SHUT-OFF VALVE FOR EACH UNIT. SEE DETAIL #4 P002.
3. 3/4" PUMPED CD DN TO LAVATORY. VERIFY EXACT LOCATION ON FIELD.SEE DETAIL #7 P002.
4. PROVIDE NEW GAS PRESSURE REGULATOR, EARTHQUAKE VALVE AND SHUT-OFF VALVE. SEE DETAIL #1 P002.
5. PROVIDE "LITTLE GIANT" MODEL # VCC-20ULS CONDENSATE PUMP. VERIFY EXACT LOCATION IN FIELD.
6. 3/4" CW SUPPLY TO HOSE BIBB LOCATED ON ROOF. CONNECT WITH EXISTING WATER HEADER. CONTRACTOR TO VERIFY EXACT LOCATION ON FIELD. 27
7. 1/2" CW CONNECTION WITH SHUT OFF VALVE TO DUST COLLECTOR.
8. INSTALL NEW 3/4" REDUCED PRESSURE BACKFLOW PREVENTER (RP-1) WITH ALL RELATED ACCESSORIES. RUN 3/4" ICW PIPE AND BRANCH OFF 1/2" PIPE TO DUST COLLECTOR SPRINKLER LINE INLET CONNECTION.

LOW PRESSURE GAS SIZING CHART	
100' TDL @ 8" W.C.	
PIPE	MAX. CFH
1/2"	50
3/4"	104
1"	195
1-1/4"	400
1-1/2"	600
2"	1160
2-1/2"	1840
3"	3260
4"	6640

KEY PLAN



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Revisions

No.	Date	Description
27	02/01/2024	CCD 27A

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT

CAMARILLO HIGH SCHOOL ALERATIONS PROJECT

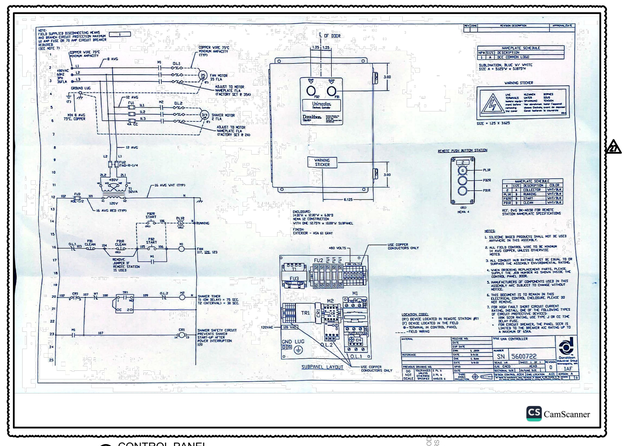
4660 MISSION OAKS BLVD.
CAMARILLO, CA 93012

Drawing Title

BUILDING 'I'
PLUMBING FLOOR PLAN

Job No. 2840.100
Date 09/08/2020
Sheet No. PI-201

C:\Users\PatrickApplicationCamarillo\AcPublish_24304\18-439 32. PI-201 Building 'I' Plumbing Floor Plan.dwg, Last Saved By: patrick - Feb 01, 2024 - 11:11am Last Printed By: PATRICK - Feb 06, 2024, 12:26pm.
J:\18-439 F&M OUHSD Camarillo HS HVAC Upgrade\P\18-439 32. PI-201 Building 'I' Plumbing Floor Plan.dwg, 2/6/2024 12:26:49 PM, patrick



3 CONTROL PANEL
SCALE : NTS

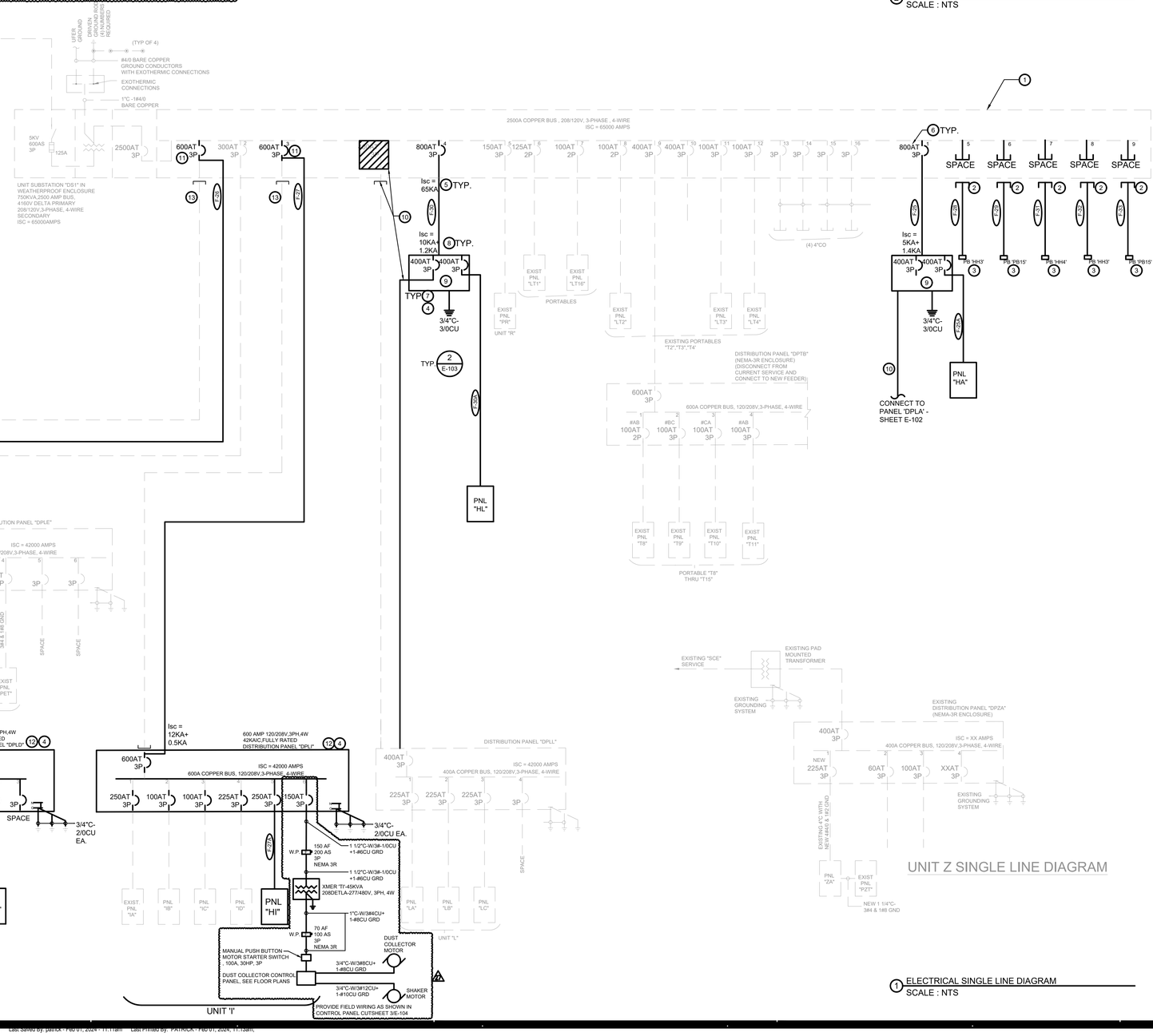
OBJECTS ON LIGHTER LAYER INDICATES NO WORK, OBJECTS ON DARKER LAYER INDICATES NEW WORK

SUBSTATION-1 CONDUCTOR SCHEDULE

FDR	FROM	TO	# OF SETS	EMT (INCH)	PVC.40/RMC (INCH)	PVC.80 (INCH)	WIRE		OCPD	AMPS	DEM'D KVA.	CONN KVA.	DIST. (FT.)	VOLT DROP %	REMARKS
F-25	SUB STATION DS1	MAIN BREAKERS 'BLDG A'	2	3"	3-1/2"	4"	4-#600 +1 #2/0 GND	CU	800A-3P	**610.00**	------		**565**	**3.2**	1 CONDUCTORS TO BE 75F RATED CU. STRANDED INSULATION TYPE THHW,THWN, THW 2 A TEMPERATURE CORRECTION FACTOR OF 0.94 HAVE BEEN USED FOR THE AMBIENT TEMPERATURE OF 95F PER CEC TABLE 310.15(B)(2)(a) 3 ADJUSTMENT FACTOR OF 0.8 IS USED PER TABLE 310.15(B)(3)(a) WHEREVER REQUIRED 2 ALL FEEDER LINES SHOWN IN THE SCHEDULES ARE NEW
F-25A	MAIN BREAKERS	PANEL 'HVAC-A'	1	3"	3-1/2"	3-1/2"	4-#500 +1 #1/0 GND	CU	400A-3P	**291.56**	------	102.43	**20**	**0.1**	
F-26	SUB STATION DS1	PANEL 'DPLD'	1	3-1/2"	4"	4"	4-#750 +1 #1/0 GND	CU	600A-3P	**475.00**	------	65.67	**120**	**0.8**	
F-27	SUB STATION DS1	PANEL 'DPLI'	2	2-1/2"	3"	3"	4-#300 +1 #1/0 GND	CU	600A-3P	**512.00**	------	78.31	**147**	**1.4**	
F-27A	PANEL 'DPLI'	PANEL 'HI'	1	2-1/2"	2-1/2"	2-1/2"	4-#4/0 +1 #4 GND	CU	250A-3P	**231.04**		78.31	**80**	**0.8**	
F-28	SUB STATION DS1	PULL BOX 'HH3'(SPARE)	1	3"	3"	3"	----------	-	----------	------	------	------	**100**	-------	
F-29	SUB STATION DS1	PULL BOX 'PB15'(SPARE)	1	3"	3"	3"	----------	-	----------	------	------	------	**125**	-------	
F-30	SUB STATION DS1	MAIN BREAKERS 'BLDG L'	2	3"	3-1/2"	3-1/2"	4-#500 +1 #2/0 GND	CU	800A-3P	**630.00**	------	109.52	**320**	**2.2**	
F-30A	MAIN BREAKERS	PANEL 'HL'	1	3"	3-1/2"	3-1/2"	4-#500 +1 #1/0 GND	CU	400A-3P	**311.55**		109.52	**20**	**0.1**	
F-31	SUB STATION DS1	PULL BOX 'HH4'(SPARE)	2	3"	3"	3"	----------	-	----------	------	------	------	-	-------	
F-32	SUB STATION DS1	PULL BOX 'HH3'(SPARE)	1	2"	2"	2"	----------	-	----------	------	------	------	-	-------	
F-33	SUB STATION DS1	PULL BOX 'PB15'(SPARE)	1	2"	2"	2"	----------	-	----------	------	------	------	-	-------	
F-34	PANEL 'DPLD'	PANEL 'HD'	1	2"	2"	2-1/2"	4-#3/0 +1 #4 GND	-	225A-3P	**185.23**	------	65.67	**80**	**1.0**	
F-34A	NOT USED	NOT USED	-	----------	----------	----------	----------	-	----------	------	------	------	-	-------	

2 FEEDER CONDUCTOR SCHEDULE
SCALE : NTS

SEE SHEET E-102
FOR CONTINUITY



1 ELECTRICAL SINGLE LINE DIAGRAM
SCALE : NTS

UNIT Z SINGLE LINE DIAGRAM

GENERAL NOTES

1. EXISTING CONDITIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS & SITE-SURVEY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN PRIOR TO INSTALLATION OF ANY WORK.
2. THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK.
3. ALL ITEMS SHOWN ON SINGLE LINE DIAGRAM ARE NEW, UNLESS NOTES AS (E) FOR EXISTING.
4. LENGTH OF FEEDERS SHOWN ON SINGLE LINE DIAGRAM ARE NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSE, CONTRACTOR TO VERIFY ACTUAL LENGTH REQUIRED.
5. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.
6. ALL DEVICES AND TERMINALS SHALL BE RATED FOR 75°C AND SHALL BE TORQUED TO MANUFACTURERS LISTED SPECIFICATIONS.
7. ALL RACEWAYS SHALL CONTAIN A CODE-SIZED (CEC-250.122), INSULATED, GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.
8. ALL CONDUCTORS SHALL BE COPPER , AS NOTED, TYPE THWN/THHN 75° RATED
9. CONTRACTOR TO LABEL ALL ADDITIONAL SPACES
10. BREAKER LUGS SHALL BE LARGE ENOUGH TO ACCOMMODATE CONDUCTORS. CONTRACTOR MAY ALSO USE A 5FT SECTION OF SMALL SIZE CONDUCTORS TO CONNECT TO BREAKERS. IN NO CASE CONDUCTORS SHALL BE SMALLER THAN THE AMPACITIES ALLOWED IN CEC TABLE 310.15(B)(16). PROVIDE ADDITIONAL J-BOX FOR THE SPLICE

KEY NOTES

1. EXISTING EMPTY DISTRIBUTION SECTION TO BE USED FOR NEW HVAC DISTRIBUTION IF NEEDED. CONTRACTOR TO FIELD VERIFY THE (E) BUSSING OF THE STRUCTURE AND IN THE EVENT OF ABSENCE OF BUSS CONTRACTOR TO REPLACE THE (E) STRUCTURE WITH (N) FACTORY INSTALLED BUSSED STRUCTURE, CONTRACTOR MAY ORDER A COMPLETE STRUCTURE WITH INSTALLED BREAKERS AS WELL TO PROVIDE A COST EFFECTIVE SOLUTION
2. SPARE CONDUIT FOR FUTURE USE, STUB UP THE CONDUIT IN TO DIST. BOARD AND PROVIDE PERMANENT LABEL WITH DESCRIPTION OF CONDUIT TERMINATING AT EACH END FOR EXAMPLE LABEL OF PULL BOX('PB1') AND LABEL OF SUBSTATION('DS3') ON RESPECTIVE ENDS FOR TRACKING PURPOSES
3. TERMINATE THE CONDUIT IN THE PULL BOX AS SHOWN, SEE SITE PLAN FOR THE LOCATION,TYPE & SIZE OF THE PULL BOX. PROVIDE PERMANENT LABEL WITH DESCRIPTION OF CONDUIT TERMINATING AT EACH END FOR EXAMPLE LABEL OF PULL BOX('PB1') AND LABEL OF SUBSTATION('DS3') ON RESPECTIVE ENDS FOR TRACKING PURPOSES
4. ALL NEWLY INSTALLED PANELS AND MAIN BREAKERS THROUGH OUT THE CAMPUS THAT ARE MEANT TO DISCONNECT THE FEEDERS ENTERING THE BUILDING SHALL BE SERVICE RATED
5. FAULT CURRENT AT THE DISTRIBUTION BOARD IS TAKEN FROM THE EXISTING BOARD BRACING AS WORST CASE TO CALCULATE DOWNSTREAM FAULT AT EQUIPMENT
6. ALL NEW CIRCUIT BREAKERS IN DISTRIBUTION BOARD SHALL HAVE A MINIMUM 65K AIC RATING
7. ALL NEWLY PANELS & MAIN BREAKERS WITHIN THE PANEL SHALL HAVE A MINIMUM AIC RATINGS OF 22KA UNLESS OTHERWISE NOTED
8. FAULT CURRENTS SHOWN ARE INCLUDED WITH MOTOR CONTRIBUTION, AMPS BEFORE THE '+' SIGN SHOWS UTILITY CONTRIBUTION & AMPS AFTER '+' SIGN SHOWS CONTRIBUTION FROM NEWLY INSTALLED HVAC MOTORS
9. (N) MAIN BREAKER SECTION. SECTION TO HAVE TWO MAIN BREAKERS . FOR BOTH THE PANELS. LABELS EACH BREAKERS WITH THE LOCATION OF THE PANELS. FOR EXAMPLE BREAKER FOR PANEL 'DPLL' CAN STATE 'DISCONNECT FOR PANEL 'DPLL' LOCATED IN ROOM _____'. FIELD VERIFY THE LOCATION OF PANELS.
10. DISCONNECT (E) FEEDERS GOING TO (E)PANEL , REMOVE (E) CONDUCTORS, CUT, CAP AND ABANDON THE CONDUIT IN PLACE. LABEL (E) CONDUIT AS SPARE. RECONNECT THE (E) PANEL TO (N) PANEL USING (N)FEEDERS, (N) FEEDER SIZING FOR (E) PANEL TO MATCH (E). CONTRACTOR MAY REUSE (E) CONDUCTORS. REMOVE (E) FEEDER BREAKER AND LABEL AS SPACE. DISCONNECT (E) GROUNDING SYSTEM FROM (E) PANEL.
11. REPLACE (E)3P BREAKER WITH BREAKER (N) BREAKER TYPE AND CHARACTERISTICS TO MATCH WITH (E)
12. REPLACE (E) DISTRIBUTION PANEL WITH (N) DIST. PANEL IN PLACE. RECONNECT ALL EXISTING CIRCUITS. PROVIDE EXTENSIONS, BOXES AND ALL REQUIRED ACCESSORIES FOR A FULLY OPERATIONAL SYSTEM. RECONNECT (E) GROUNDING SYSTEM TO (N) PANEL. REPLACE (E) GROUNDING ELECTRODE CONDUCTORS WITH (N). (E)GROUNDING SHALL BE AS SHOWN ON DETAIL 2 ON SHEET E-103, MAKE NECESSARY ADJUSTMENTS TO GROUNDING SYSTEM. LABEL THE PANEL AS SHOWN
13. DISCONNECT (E) FEEDERS GOING TO (E)PANEL , REMOVE (E) CONDUCTORS, CUT, CAP AND ABANDON THE CONDUIT IN PLACE. LABEL (E) CONDUIT AS SPARE. PROVIDE (N) FEEDERS AS SHOWN

AS REVISED
CCD 27
DSA A# 03-120049

APPROVED
DIV. OF THE STATE ARCHITECT
APP#: 03-120049 INC.:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/26/2024

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CONSULTANT

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REGISTERED PROFESSIONAL ENGINEER JONAH H. CHRISTIAN E 22864 ELECTRICAL STATE OF CALIFORNIA

Drawn by: .
Check by: .
Revisions

No.	Date	Description
2	02/01/2024	CCD 27A

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT

CAMARILLO HIGH SCHOOL ALERATIONS PROJECT

4660 MISSION OAKS BLVD.
CAMARILLO, CA 93012

Drawing Title

ELECTRICAL SINGLE LINE DIAGRAM

Job No. 2840.100
Sheet No. E-104
Date 09/08/2020

J:\18-439 F&M OUHSD Camarillo HS HVAC Upgrade\E\18-439 E-102 TO E-104 Single Line Diagram.dwg Last Saved By: patrick - Feb 01, 2024 - 11:13am Last Printed By: PATRICK - Feb 01, 2024, 11:13am

PANEL: HA (TOP FED)

120/208 VOLT, 3 PH, 4W — 400 AMP COPPER BUS

(PANEL TO HAVE BOLT-ON BREAKERS)

LOCATION: STORAGE A14 — MAIN : LUG ONLY

MOUNTING: SURFACE MOUNTED — LOAD: 102.4 kVA 292 AMPS

CK #	W	VA LOAD LINE A	LINE B	LINE C	LOAD DESCRIPTION	OUTLETS O	R	L	P	CKT BKR A	CKT BKR A	P	L	OUTLETS R	O	LOAD DESCRIPTION	VA LOAD LINE A	LINE B	LINE C	W	CK #
1		3723			RTU"A-1"					45	30					RTU"A-8"	3002				2
3			3723		----------						3					----------		3002			4
5				3723	----------				3		3					----------			3002		6
7		3002			RTU"A-3"					30	30					RTU"A-9"	3002				8
9			3002		----------											----------		3002			10
11				3002	----------				3		3					----------			3002		12
13		3002			RTU"A-4"					30	30					RTU"A-10"	3002				14
15			3002		----------											----------		3002			16
17				3002	----------				3		3					----------			3002		18
19		3002			RTU"A-5"					30	30					RTU"A-11"	3002				20
21			3002		----------											----------		3002			22
23				3002	----------				3		3					----------			3002		24
25		3002			RTU"A-6"					30	30					RTU"A-12"	3002				26
27			3002		----------											----------		3002			28
29				3002	----------				3		3					----------			3002		30
31		3002			RTU"A-7"					30	25					HP"A-2"	2080				32
33			3002		----------						2					----------		2080			34
35				3002	----------				3		20	1				SERVICE RECEPTACLE			360		36
37		540			SERVICE RECEPTACLE				1	20	20					POWER EXHAUST"A-8,A-9"	660				38
39			330		POWER EXHAUST"A-10"				15							----------		660			40
41				330	----------						3					----------			660		42
43		330			----------				3		20	1				FCU"A-2" CONDENSATE PUMP	180				44
45			765		POWER EXHAUST"A-1,A-3"				20		20					POWER EXHAUST"A-4,A-5"		660			46
47				765	----------											----------			660		48
49		765			----------				3		3					----------	660				50
51			660		POWER EXHAUST"A-6,A-7"				20		20					POWER EXHAUST"A-11,A-12"		660			52
53				660	----------											----------			660		54
55		660			----------				3		3					----------	660				56
57					SPACE						20	1				NR		180			58
59					SPACE											SPACE					60
61					SPACE																62
63					SPACE																64
65					SPACE																66
		17874	17415	17415	SUB - TOTALS											SUB - TOTALS	16363	16363	14748		

SUB - TOTALS 16363 16363 14748

NOTE 1. PANEL SHALL HAVE AN SCCR RATING (BRACING) OF 18KA — LINE TOTALS: 34226 33771 32182

2. MAIN BREAKER SHALL HAVE AIC RATING OF 18KA — 25% OF LARGERST MOTOR: 750.5 750.5 750.5

3. TOTAL VA PER PHASE: 34987 34528 32913

4. LINE AMPS: 292 288 274

PANEL: HB (TOP FED)

120/208 VOLT, 3 PH, 4W — 400 AMP COPPER BUS

(PANEL TO HAVE BOLT-ON BREAKERS)

LOCATION: — MAIN: 250 AMP

MOUNTING: SURFACE FLUSH STANDING — LOAD: 67.8 kVA 199 AMPS

CK #	W	VA LOAD LINE A	LINE B	LINE C	LOAD DESCRIPTION	OUTLETS O	R	L	P	CKT BKR A	CKT BKR A	P	L	OUTLETS R	O	LOAD DESCRIPTION	VA LOAD LINE A	LINE B	LINE C	W	CK #
1		3002			RTU"B-1"					30	30					RTU"B-2"	3002				2
3			3002		----------											----------		3002			4
5				3002	----------				3		3					----------			3002		6
7		3002			RTU"B-3"					30	30					RTU"B-4"	3002				8
9			3002		----------											----------		3002			10
11				3002	----------				3		3					----------			3002		12
13		3002			RTU"B-5"					30	30					RTU"B-6"	3002				14
15			3002		----------											----------		3002			16
17				3002	----------				3		3					----------			3002		18
19		900			CONDENSATE PUMPS-1				1	20	25					HP"B-6A1"	1872				20
21			660		POWER EXHAUST"B-4,B-5"					20	2					----------		1872			22
23				660	----------						30					HP"B-1B"			1768		24
25	660				----------				3		3					----------	1768				26
27		936			HP"B-1A"				1	15	15					HP"B-3A"		936			28
29			936		----------				2		2					----------			936		30
31	750				BOOSTER FANS	5			1	15	25					HP"B-6A2"	1872				32
33		540			SERVICE RECEPTACLE				1	20	2					----------		1872			34
35			660		POWER EXHAUST"B-2,B-3"					20	20					POWER EXHAUST"B-1,B-6"			660		36
37	660				----------											----------	660				38
39		660			----------				3		3					----------		660			40
41			180		NR				1	20						SPACE					42
43					SPACE											SPACE					44
45					SPACE											SPACE					46
47					SPACE																48
49					SPACE																50
51					SPACE																52
		10180	10032	9725.7	SUB - TOTALS											SUB - TOTALS	12901	12194	10515		

SUB - TOTALS 12901 12194 10515

NOTE 1. PANEL SHALL HAVE AN SCCR RATING (BRACING) OF 18KA — LINE TOTALS: 23081 22226 20340

2. MAIN BREAKER SHALL HAVE AIC RATING OF 18KA — 25% OF LARGERST MOTOR: 750.5 750.5 750.5

3. TOTAL VA PER PHASE: 23831 22976 20991

4. LINE AMPS: 199 191 175

PANEL: HC (TOP FED)

120/208 VOLT, 3 PH, 4W — 400 AMP COPPER BUS

(PANEL TO HAVE BOLT-ON BREAKERS)

LOCATION: STORAGE C13 — MAIN: 400 AMP

MOUNTING: FLUSH MOUNTED — LOAD: 91.9 kVA 259 AMPS

CK #	W	VA LOAD LINE A	LINE B	LINE C	LOAD DESCRIPTION	OUTLETS O	R	L	P	CKT BKR A	CKT BKR A	P	L	OUTLETS R	O	LOAD DESCRIPTION	VA LOAD LINE A	LINE B	LINE C	W	CK #
1		3002			RTU"C-1"					30	30					RTU"C-2"	3002				2
3			3002		----------											----------		3002			4
5				3002	----------				3		3					----------			3002		6
7		3002			RTU"C-3"					30	30					RTU"C-4"	3002				8
9			3002		----------											----------		3002			10
11				3002	----------				3		3					----------			3002		12
13		3002			RTU"C-5"					30	30					RTU"C-6"	3002				14
15			3002		----------											----------		3002			16
17				3002	----------				3		3					----------			3002		18
19		3002			RTU"C-7"					30	30					RTU"C-8"	3002				20
21			3002		----------											----------		3002			22
23				3002	----------				3		3					----------			3002		24
25		3002			RTU"C-9"					30	30					RTU"C-10"	3002				26
27			3002		----------											----------		3002			28
29				3002	----------				3		3					----------			3002		30
31		360			CONDENSATE PUMPS-1				1	15	15					HP"C-11"	936				32
33			300		BOOSTER FANS		2		1	15	2					----------		936			34
35				360	SERVICE RECEPTACLE				1	20	20	1				SERVICE RECEPTACLE			540		36
37		936			HP"C-15"					15	20					POWER EXHAUST"C-2,C-9"	660				38
39			936		----------				2							----------		660			40
41				660	POWER EXHAUST"C-1,C-10"					20	3					----------			660		42
43		660			----------					20						POWER EXHAUST"C-3,C-6"	660				44
45			660		----------				3							----------		660			46
47				660	POWER EXHAUST"C-7,C-8"					20	3					----------			660		48
49	660				----------				3		20	1				NR	180				50
51			660		----------											SPACE					52
53				660	POWER EXHAUST"C-4,C-5"					20						SPACE					54
55	660				----------											SPACE					56
57		660			----------				3							SPACE					58
59					SPACE																60
61					SPACE																62
63					SPACE																64
		15543	15492	14748	SUB - TOTALS											SUB - TOTALS	14829	14676	14340		

SUB - TOTALS 14829 14676 14340

NOTE 1. PANEL SHALL HAVE AN SCCR RATING (BRACING) OF 18KA — LINE TOTALS: 30372 30168 29087

2. MAIN BREAKER SHALL HAVE AIC RATING OF 18KA — 25% OF LARGERST MOTOR: 750.5 750.5 750.5

3. TOTAL VA PER PHASE: 31123 30919 29838

4. LINE AMPS: 259 258 249

PANEL: HD (TOP FED)

120/208 VOLT, 3 PH, 4W — 225 AMP COPPER BUS

(PANEL TO HAVE BOLT-ON BREAKERS)

LOCATION: STORAGE D14 — MAIN: 225 AMP

MOUNTING: FLUSH MOUNTED — LOAD: 65.7 kVA 185 AMPS

CK #	W	VA LOAD LINE A	LINE B	LINE C	LOAD DESCRIPTION	OUTLETS O	R	L	P	CKT BKR A	CKT BKR A	P	L	OUTLETS R	O	LOAD DESCRIPTION	VA LOAD LINE A	LINE B	LINE C	W	CK #
1		3002			RTU"D-1"					30	60					RTU"D-2"	6364				2
3			3002		----------											----------		6364			4
5				3002	----------				3		3					----------			6364		6
7		3722			RTU"D-3"					45	45					RTU"D-4"	3602				8
9			3722		----------											----------		3602			10
11				3722	----------				3		3					----------			3602		12
13		750			POWER EXHAUST "D-4"				15	R 15	15					POWER EXHAUST "D-2"	510				14
15			750		----------											----------		510			16
17				750	----------				3		3					----------			510		18
19		360			CONDENSATE PUMPS-1				1	15	15					HP"D-8"	936				20
21			435		POWER EXHAUST "D-3"				15		2					----------		936			22
23				435	----------						20					POWER EXHAUST "D-1,D-6"			660		24
25	435				----------				3							----------	660				26
27		3002			RTU"D-6"					30	3					----------		660			28
29			3002		----------				15	1						BOOSTER FANS			500		30
31	3002				----------				3		20	1				NR	180				32
33		936			HP"D-7"				15		15					SPACE					34
35			936		----------				2							SPACE					36
37	360				SERVICE RECEPTACLE	2	1	20													38
39		360			SERVICE RECEPTACLE	2	1	20								----------					40
41					SPACE											----------					42
		9886.4	10376	10070	SUB - TOTALS											SUB - TOTALS	10414	10261	9890.6		

SUB - TOTALS 10414 10261 9890.6

NOTE 1. PANEL SHALL HAVE AN SCCR RATING (BRACING) OF 18KA — LINE TOTALS: 20301 20637 19961

2. MAIN BREAKER SHALL HAVE AIC RATING OF 18KA — 25% LARGEST MOTOR: 1591 1591 1591

3. TOTAL VA PER PHASE: 21892 22228 21552

4. LINE AMPS: 182 185 180

PANEL: HF (TOP FED)

120/208 VOLT, 3 PH, 4W — 400 AMP COPPER BUS

(PANEL TO HAVE BOLT-ON BREAKERS)

LOCATION: STORAGE F9 — MAIN: 400 AMP

MOUNTING: FSURFACE FLUSH STANDING — LOAD: 104.3 kVA 296 AMPS

CK #	W	VA LOAD LINE A	LINE B	LINE C	LOAD DESCRIPTION	OUTLETS O	R	L	P	CKT BKR A	CKT BKR A	P	L	OUTLETS R	O	LOAD DESCRIPTION	VA LOAD LINE A	LINE B	LINE C	W	CK #
1		3602			RTU"F-1"					45	40					RTU"F-2"	3479				2
3			3602		----------											----------		3479			4
5				3602	----------				3		30	1				----------			3479		6
7		2879			RTU"F-3"					30	15	1				CONDENSATE PUMPS-1	540				8
9			2879		----------						15					HP"F-1A"		936			10
11				2879	----------				3		2					----------			936		12
13		540			SERVICE RECEPTACLE				1	20	20					POWER EXHAUST "F-2,F-3"	765				14
15			2080		HP"F-1B"					30						----------		765			16
17				2080	----------				2		3					----------			765		18
19		936			HP"F-5"					15	15					POWER EXHAUST "F-1"	750				20
21			936		----------				2							----------		750			22
23		180			NR				1	20						SPACE					24
25				200	BOOSTER FANS	2			1	15	3					----------			750		26
27					SPACE											SPACE					28
29					SPACE											SPACE					30
31					SPACE						225					(E)PANEL'FA'	25260				32
33					SPACE											----------		25260			34
35					SPACE										3	----------			25260		36
		6916.5	8072.5	7446.9	SUB - TOTALS											SUB - TOTALS	26175	26512	26512		

SUB - TOTALS 26175 26512 26512

NOTE 1. PANEL SHALL HAVE AN SCCR RATING (BRACING) OF 18KA — LINE TOTALS: 33091 34584 33958

2. MAIN BREAKER SHALL HAVE AIC RATING OF 18KA — 25% LARGEST MOTOR: 900.5 900.5 900.5

3. TOTAL VA PER PHASE: 33992 35484 34859

4. LINE AMPS: 283 296 290

PANEL: HG (TOP FED)

120/208 VOLT, 3 PH, 4W — 600 AMP COPPER BUS

(PANEL TO HAVE BOLT-ON BREAKERS)

LOCATION: OFFICE G7 — MAIN: 600 AMP

MOUNTING: SURFACE MOUNTED — LOAD: 135.7 kVA 381 AMPS

CK #	W	VA LOAD LINE A	LINE B	LINE C	LOAD DESCRIPTION	OUTLETS O	R	L	P	CKT BKR A	CKT BKR A	P	L	OUTLETS R	O	LOAD DESCRIPTION	VA LOAD LINE A	LINE B	LINE C	W	CK #
1		3002			RTU"G-1"					30	30					RTU"G-2"	3002				2
3			3002		----------											----------		3002			4
5				3002	----------				3		3					----------			3002		6
7		3002			RTU"G-3"					30	30					RTU"G-4"	3002				8
9			3002		----------											----------		3002			10
11				3002	----------				3		3					----------			3002		12
13		3002			RTU"G-5"					30	30					RTU"G-6"	3002				14
15			3002		----------											----------		3002			16
17				3002	----------				3		3					----------			3002		18
19		180			FCU"G-7" CONDENSATE PUMP				1	20	20	1				SERVICE RECEPTACLE	540				20
21			660		POWER EXHUAST"G-1,G-2"					20	20	1				SERVICE RECEPTACLE		540			22
23				660	----------						20					POWER EXHUAST"G-3,G-4"			660		24
25	660				----------				3							----------	660				26
27		660			POWER EXHUAST"G-5,G-6"					20	3					----------		660			28
29			660		----------						20	1	1			BOOSTER FANS			100		30
31	660				----------				3		20	1				NR	180				32
33		1872			HP"G-7"				25							SPACE					34
35			1872		----------				2							SPACE					36
37					SPACE						300					(E)PANEL'GA'	30560				38
39					SPACE											----------		30560			40
41					SPACE										3	----------			30560		42
		8930.1	10368	10368	SUB - TOTALS											SUB - TOTALS	34804	34651	34277		

SUB - TOTALS 34804 34651 34277

NOTE 1. PANEL SHALL HAVE AN SCCR RATING (BRACING) OF 18KA — LINE TOTALS: 43734 45019 44645

2. MAIN BREAKER SHALL HAVE AIC RATING OF 18KA — 25% LARGEST MOTOR: 750.5 750.5 750.5

3. TOTAL VA PER PHASE: 44485 45770 45396

4. LINE AMPS: 371 381 378

PANEL: HH (TOP FED)

120/208 VOLT, 3 PH, 4W — 600 AMP COPPER BUS

(PANEL TO HAVE BOLT-ON BREAKERS)

LOCATION: ELECTRICAL ROOM H14 — MAIN: 600 AMP

MOUNTING: FLUSH MOUNTED — LOAD: 45.8 kVA 131 AMPS

CK #	W	VA LOAD LINE A	LINE B	LINE C	LOAD DESCRIPTION	OUTLETS O	R	L	P	CKT BKR A	CKT BKR A	P	L	OUTLETS R	O	LOAD DESCRIPTION	VA LOAD LINE A	LINE B	LINE C	W	CK #
1		3002			RTU"H-1"					30	30					RTU"H-2"	3002				2
3			3002		----------											----------		3002			4
5				3002	----------				3		3					----------			3002		6
7		3002			RTU"H-3"					30	30					RTU"H-4"	3002				8
9			3002		----------											----------		3002			10
11				3002	----------				3		3					----------			3002		12
13		3002			RTU"H-5"					30	20					POWER EXHAUST"H-4,H-5"	660				14
15			3002		----------											----------		660			16
17				3002	----------				3		3					----------			660		18
19		540			SERVICE RECEPTACLE				1	20	20					POWER EXHAUST"H-2,H-3"	660				20
21			360		SERVICE RECEPTACLE				1	20						----------		660			22
23				330	POWER EXHAUST"H-1"					20	3					----------			660		24
25	330				----------						20	1				NR & CP	360				26
27		330			----------				3							SPACE					28
29					SPACE											SPACE					30
31					SPACE											SPACE					32
33					SPACE											SPACE					34
35					SPACE											SPACE					36
37					SPACE						300					(E)PANEL'HA'					38
39					SPACE											----------					40
41					SPACE											----------					42
		8394.6	8241.6	7935.6	SUB - TOTALS											SUB - TOTALS	6531.4	6225.4	6225.4		

SUB - TOTALS 6531.4 6225.4 6225.4

NOTE 1. PANEL SHALL HAVE AN SCCR RATING (BRACING) OF 18KA — LINE TOTALS: 14926 14467 14161

2. MAIN BREAKER SHALL HAVE AIC RATING OF 18KA — 25% LARGEST MOTOR: 750.5 750.5 750.5

3. TOTAL VA PER PHASE: 15677 15218 14912

4. LINE AMPS: 131 127 124

PANEL: HI (TOP FED)

120/208 VOLT, 3 PH, 4W — 400 AMP COPPER BUS

(PANEL TO HAVE BOLT-ON BREAKERS)

LOCATION: OFFICE I12 — MAIN: 250 AMP

MOUNTING: FLUSH MOUNTED — LOAD: 78.3 kVA 231 AMPS

CK #	W	VA LOAD LINE A	LINE B	LINE C	LOAD DESCRIPTION	OUTLETS O	R	L	P	CKT BKR A	CKT BKR A	P	L	OUTLETS R	O	LOAD DESCRIPTION	VA LOAD LINE A	LINE B	LINE C	W	CK #
1		9606			RTU"I-1"					100	30					RTU"I-5"	2762				2
3			9606		----------											----------		2762			4
5				9606	----------				3		3					----------			2762		6
7		3722			RTU"I-4"					45	30					RTU"I-2"	2762				8
9			3722		----------											----------		2762			10
11				3722	----------				3		3					----------			2762		12
13		930			POWER EXHAUST "I-1"					15	15	1				CONDENSATE PUMPS-1	540				14
15			930		----------						15					HP"I-12"		936			16
17				930	----------				3		2					----------			936		18
19		1768			HP"I-13"					30	20					HP"I-1B"	1560				20
21			1768		----------				2		2					----------		1560			22
23				540	SERVICE RECEPTACLE				1	20	20					POWER EXHAUST "I-2,I-5"			660		24
25	435				POWER EXHAUST "I-4"					15						----------	660				26
27		435			----------						3					----------		660			28
29			435		----------				3		15	1			3	BOOSTER FANS			300		30
31	360				NR & CP				1	20	20	1			1	DUCT COLLECTOR SERVICE RECEP	180				32
33		1560			HP"I-15"					20						SPACE					34
35			1560		----------				2							SPACE					36
37	1560				HP"I-20"				1	20						SPACE					38
39		1560			----------				2							SPACE					40
41					SPACE											SPACE					42
		15624	16644	14274	SUB - TOTALS											SUB - TOTALS	9541.1	9957.1	7742		

SUB - TOTALS 9541.1 9957.1 7742

NOTE 1. PANEL SHALL HAVE AN SCCR RATING (BRACING) OF 18KA — LINE TOTALS: 24088 25324 21694

2. MAIN BREAKER SHALL HAVE AIC RATING OF 18KA — 25% LARGEST MOTOR: 2401.5 2401.5 2401.5

3. TOTAL VA PER PHASE: 26489 27725 24096

4. LINE AMPS: 221 231 201

PANEL: HJ (TOP FED)

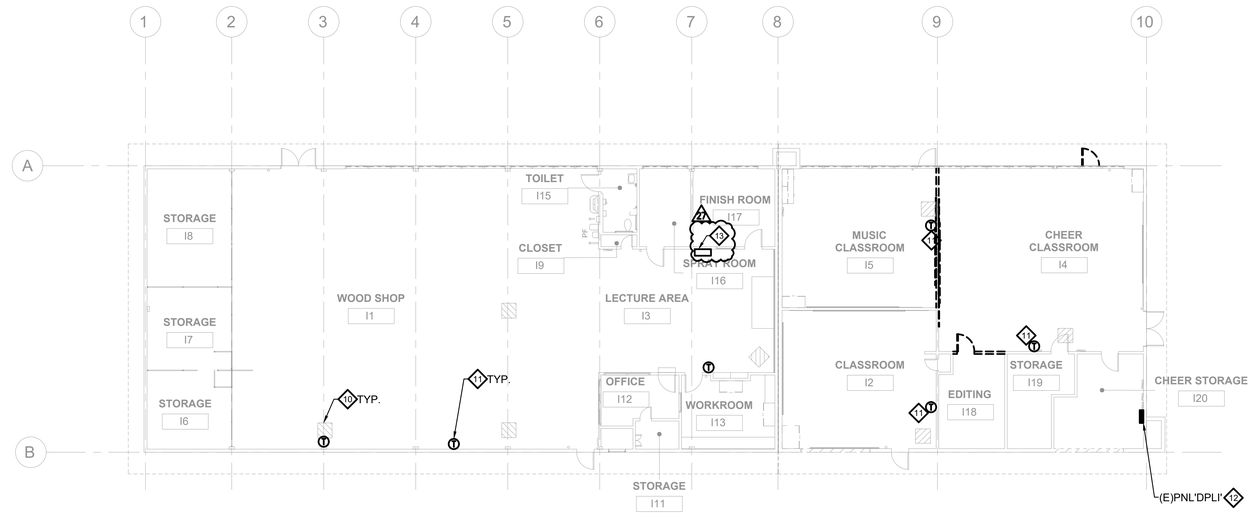
120/208 VOLT, 3 PH, 4W — 600 AMP COPPER BUS

(PANEL TO HAVE BOLT-ON BREAKERS)

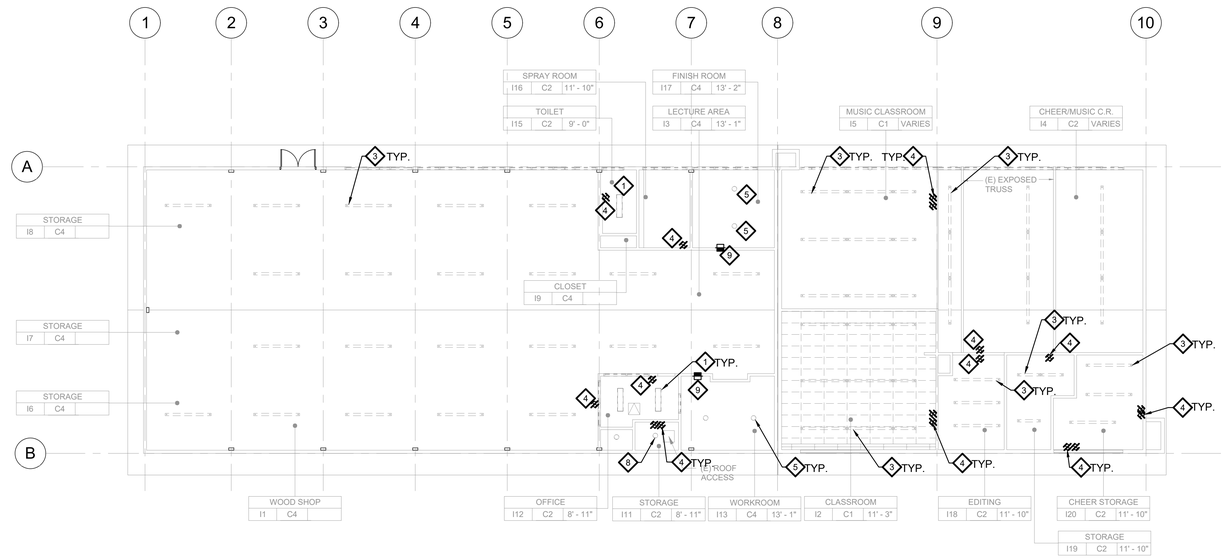
LOCATION: STORAGE J8 — MAIN: 600 AMP

MOUNTING: FLUSH MOUNTED — LOAD: 43.8 kVA 131 AMPS

CK #	W	VA LOAD LINE A	LINE B	LINE C	LOAD DESCRIPTION	OUTLETS G	R	L	P	CKT BKR A	CKT BKR A	P	L	OUTLETS R	O	LOAD DESCRIPTION	VA LOAD LINE A	LINE B	LINE C	W	CK #
1		3602			RTU"J-1"					45	45					RTU"J-2"	3602				2
3			3602		----------											----------		3602			4
5				3602	----------				3		3					----------			3602		6
7		3602			RTU"J-3"					45	20	1				CONDENSATE PUMPS	720				8
9			3602		----------						20	1				EXHAUST FAN "J-2"		1590			10
11				3602	----------				3		20	1				EXHAUST FAN "J-3"			1590		12
13					SPACE											SPACE					14
15					SPACE											SPACE					16
17					SPACE											SPACE					18
18		1872			HP"J-7"					25	20	1	3			SERVICE RECEPTACLE	540				20
21			1872		----------				2		15					HP"J-1"		936			22
23				100	BOOSTER FAN	1			1	15	2					----------			936		24
25	100				SMOKE DAMPERS	1			1	15	15					HP"J-2"	936				26
27					SPACE						2					----------		936			28
29					SPACE						15					HP"J-3"			936		30
31	1590				EXHAUST FAN "J-1"				1	20	2					----------	936				32
33		360			NR & CP				1	20						SPACE					34
35					SPACE											SPACE					36
37					SPAC



1 BUILDING 'I' DEMOLITION POWER PLAN
3/32" = 1'-0"



2 BUILDING 'I' DEMOLITION LIGHTING PLAN
3/32" = 1'-0"

DEMOLITION GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DEMOLITION OF ANY WORK.

B. EACH UNIT SHOWN FOR DEMOLITION ON MECHANICAL PLANS IS TO BE COMPLETELY DISCONNECTED FOR DEMOLITION/REMOVAL. EXISTING DISCONNECTS AND CIRCUIT BREAKERS ARE TO BE SWITCHED OFF.

C. AS A RESULT OF ANY DEMOLITION, ALLOW NO 'ORPHANED' OR ISOLATED DEVICES OUTSIDE OF WORK SCOPE AREA TO REMAIN DISCONNECTED. PROVIDE ANY NECESSARY NEW TERMINATIONS, CONDUCTORS, CONNECTIONS, CONDUIT, ETC.

D. ANY CONDUITS NOT SUITABLE FOR REUSE SHALL NOT BE ABANDONED IN PLACE. REMOVE BACK TO FEEDING PANEL OR NEAREST PRECEDING JUNCTION BOX.

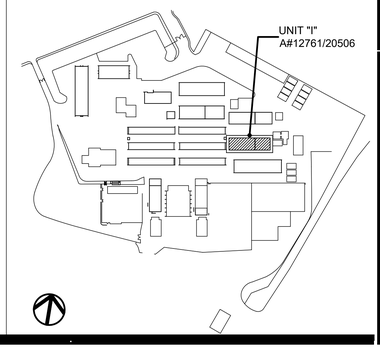
E. PRIOR TO COMMENCING ANY WORK THE CONTRACTOR SHALL CONSULT WITH OWNER REPRESENTATIVE ELECTRICIAN AND CONDUCT THE NECESSARY PROTOCOLS FOR THE LOCK OUT/TAG OUT PROCEDURE AND DISABLING OF BEAM DETECTORS.

DEMOLITION KEY NOTES

1. EXISTING SURFACE MOUNT LINEAR LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
2. EXISTING RECESSED LINEAR LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
3. EXISTING PENDANT MOUNT LINEAR LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
4. EXISTING LIGHT SWITCH TO BE REMOVED. PROTECT AND IDENTIFY CONFIGURATION AND MAINTAIN SAME CONFIGURATION DURING CONSTRUCTION. NEW SWITCHES TO BE COMPATIBLE WITH WIRELESS OCCUPANCY SENSORS AS SHOWN ON CONSTRUCTION PLAN.
5. EXISTING SUSPENDED CIRCULAR LIGHT FIXTURES TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
6. EXISTING SURFACE MOUNT CIRCULAR LIGHT FIXTURES TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
7. NOT USED.
8. EXISTING SURFACE MOUNT DRUM LIGHT FIXTURE TO BE REMOVED AND REPLACED WITH NEW LED FIXTURE AS SHOWN ON CONSTRUCTION PLAN. IDENTIFY AND PROTECT EXISTING CIRCUIT FOR RECONNECTION.
9. EXISTING WALL MOUNTED COMBINATION SWITCH OCCUPANCY SENSOR TO REMAIN.
10. EXISTING FURNACE TO BE REMOVED. REMOVE ALL ASSOCIATED ACCESSORIES INCLUDING EXISTING DISCONNECTS, CONDUCTORS. CUT, CAP & ABANDON CONDUIT IN PLACE. LABEL CONDUIT & THE ASSOCIATED BREAKER AS "SPARE". FIELD VERIFY THE EXACT LOCATION OF FURNACE AND ASSOCIATED ACCESSORIES.
11. EXISTING THERMOSTATS ASSOCIATED WITH THE FURNACE TO BE REMOVED, REMOVE ALL ASSOCIATED ACCESSORIES INCLUDING CONTROL CONDUCTORS. CUT, CAP & ABANDON CONDUIT IN PLACE. LABEL CONDUIT & ANY ASSOCIATED BREAKER AS "SPARE". FIELD VERIFY THE EXACT LOCATION OF THERMOSTAT. FIELD VERIFY THE EXACT LOCATION OF THERMOSTAT AND ASSOCIATED ACCESSORIES.
12. FIELD VERIFY THE LOCATION OF ALL (E) PANELS.
13. EXISTING DUST COLLECTOR SWITCH TO BE REMOVED, PROVIDE A NEW SWITCH.

AS REVISED
CCD 27
DSA A# 03-120049

KEY PLAN



APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-120049 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/26/2024

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ELECTRICAL
STATE OF CALIFORNIA

Drawn by: -

Check by: -

Revisions

No.	Date	Description
1	02/01/2024	CCD 27A

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT

CAMARILLO HIGH SCHOOL ALERATIONS PROJECT

4660 MISSION OAKS BLVD.
CAMARILLO, CA 93012

Drawing Title

BUILDING 'I'
DEMOLITION
POWER PLAN AND
DEMOLITION LIGHTING PLAN

Job No. 2840.100

Sheet No. EI-201D

Date 09/08/2020

A:\18-439 F&M OUHSD Camarillo HS HVAC Upgrade\EI\18-439 EI-201D Classroom Building 'I' Demolition Power Plan and Demolition Lighting Plan.dwg, 2/1/2024 11:19:47 AM, patrick

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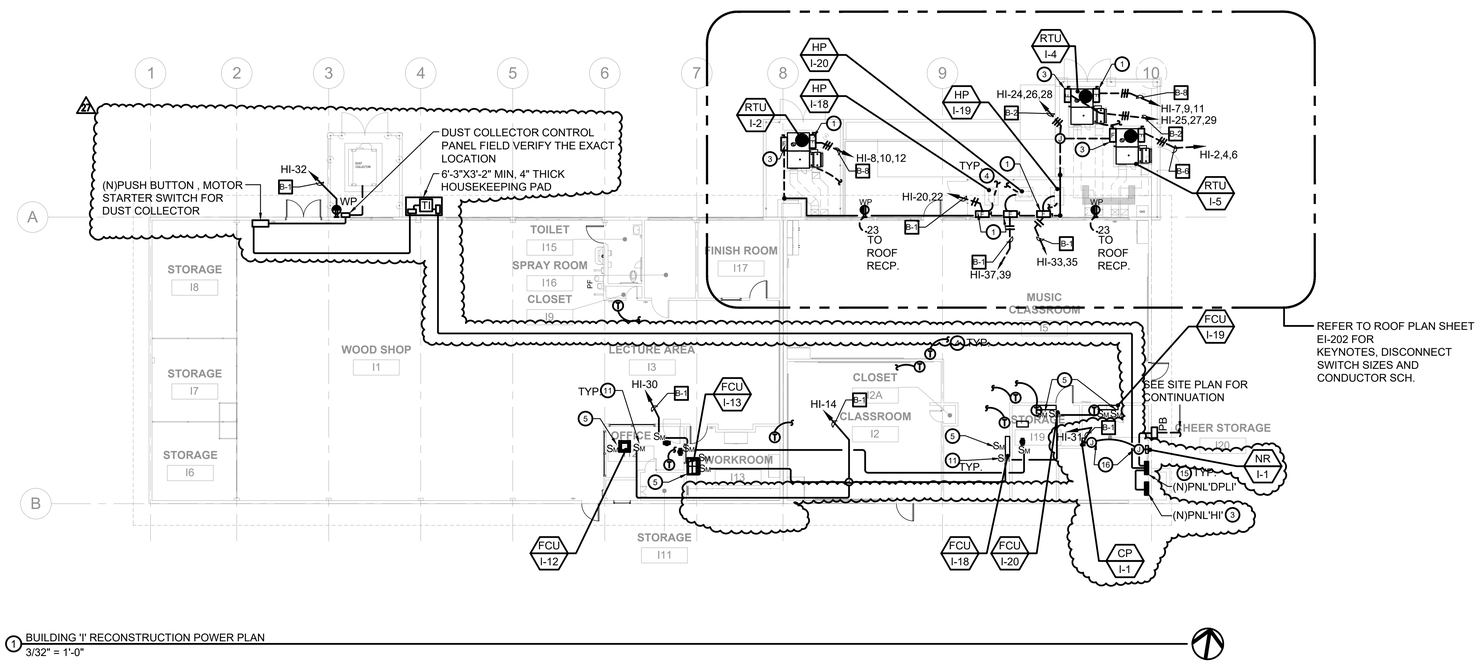
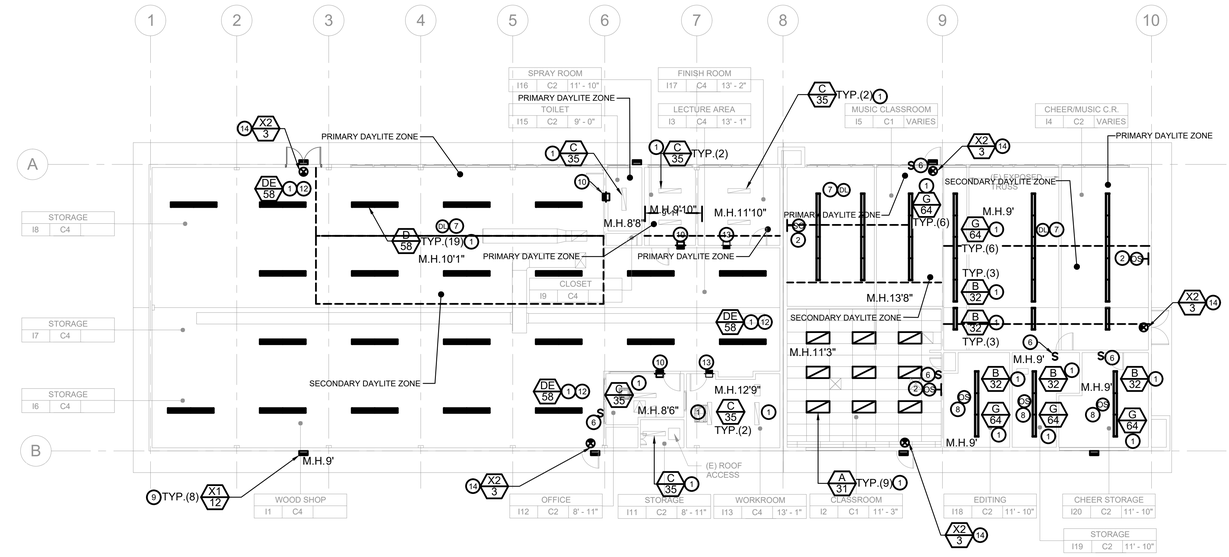


1 BUILDING 'I' RECONSTRUCTION POWER PLAN
3/32" = 1'-0"



2 BUILDING 'I' RECONSTRUCTION LIGHTING PLAN
3/32" = 1'-0"

GENERAL NOTES

A. ALL EQUIPMENT SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING.

B. ALL TERMINALS SHALL BE TORQUED TO MANUFACTURERS LISTED SPECIFICATIONS.

C. ALL RACEWAYS SHALL CONTAIN A CODE-SIZED (NEC-250), INSULATED, GREEN, COPPER EQUIPMENT GROUNDING CONDUCTOR AND SHALL BE BONDED TO THE METALLIC COMPONENTS OF THE RACEWAY SYSTEM.

D. MARK ALL EXPOSED JUNCTION BOXES WITH THE PANEL AND CIRCUIT NUMBERS OF THE CIRCUITS ENCLOSED WITHIN THE JUNCTION BOX USING A PERMANENT, FELT TIP MARKER.

E. ALL ELECTRICAL EQUIPMENTS LOCATED IN CEILING SPACES/WALL CAVITIES SHALL BE ACCESSIBLE BY AN ACCESS PANEL OR OTHER MEANS.

F. ALL CONDUCTORS TO BE COPPER, TYPE THWN/THHN.

G. ALL SWITCH LOCATIONS SHALL BE VERIFIED WITH ARCHITECT PRIOR TO ROUGH IN.

H. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND QUANTITIES OF LIGHTS.

I. PROVIDE THE REQUIRED AUXILIARY J-BOXES, PULL-BOXES OR HANDHOLDS PER CEC 352.26/358.26 TO FACILITATE THE INSTALLATION OF BRANCH CIRCUIT WIRING OR FEEDERS. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS(360 DEGREES TOTAL) BETWEEN PULL POINTS FOR EXAMPLE, CONDUIT BODIES AND BOXES.

J. CONTRACTOR TO FIELD VERIFY AND RE-USE EXISTING BRANCH CIRCUIT BREAKERS AS MUCH AS POSSIBLE. CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AND RECONFIGURE BREAKER LAYOUT AS REQUIRED TO MEET DESIGN REQUIREMENTS WHILE ALSO MAINTAINING ALL CIRCUITS TO REMAIN AS SHOWN ON PANEL SCHEDULE. ANY DISCREPANCY IN QUANTITIES OF SPARES SHOWN ON DRAWING AND ACTUAL FINDINGS MUST BE REPORTED TO BUILDING ENGINEER FOR REVIEW.

K. CONTRACTOR SHALL PERMANENTLY LABEL ALL OUTLETS WITH CIRCUIT NUMBERS AND PROVIDE UPDATED PANEL SCHEDULES FOR ALL AFFECTED PANELS.

L. CONTRACTOR SHALL COORDINATE ALL REQUIRED SHUT DOWN OF SYSTEMS WITH DISTRICT.

M. ALL THE EXTERIOR LIGHTING IS BEING REPLACED TO MEET EGRESS LIGHTING ILLUMINATION REQUIREMENTS.

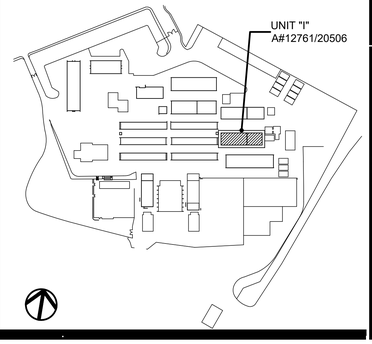
N. PROVIDE SEISMIC BRACING TO ALL PENDANT MOUNTED LIGHTING FIXTURE THAT CAN NOT SWING FREELY BY 45 IN BOTH "X" AND "Y" DIRECTION. SEE DETAIL 4/E-113.

KEY NOTES

1. PROVIDE NEW LED LIGHT FIXTURE. CONNECT THE NEW FIXTURE TO THE EXISTING CIRCUIT IDENTIFIED DURING DEMOLITION. PROVIDE ALL NECESSARY CONDUIT AND CONDUCTOR EXTENSIONS AND ACCESSORIES AS NEEDED.
2. PROVIDE NEW LUTRON WALL MOUNTED OCCUPANCY SENSOR MODEL #LRF2-OWLB-P-WH. PROVIDE LUTRON POWER PACK MODEL #RMJS-8TN-DV-B AND OTHER ACCESSORIES AS NEEDED FOR FULL FUNCTIONALITY OF THE SENSOR. REFER TO LIGHTING CONTROLS DIAGRAM SHEET E-114.
3. 120/208V, 3PH, 4W, SURFACE MOUNTED PANEL FOR NEW HVAC DISTRIBUTION. SEE PANEL SCHEDULE FOR SIZING AND AIR RATING INFO.
4. PROVIDE WIREMOLD SERIES 2400 MOUNTED TO WALL & 3/4"C w/ PULL STRING WITHIN CEILING SPACE FOR CONTROL WIRING FROM THERMOSTAT TO ASSOCIATED FAN COIL UNIT & HEAT PUMP UNIT / ROOFTOP UNIT AS REQUIRED, PROVIDE NECESSARY ADAPTORS TO TRANSITION FROM CONDUIT TO RACEWAY. COORDINATE WITH HVAC CONTROLS CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR THE EXACT LOCATION OF THERMOSTATS.
5. INDOOR FAN COIL UNIT IS POWERED BY THE OUTDOOR HEAT PUMP UNIT, PROVIDE A 3/4"C AND A MOTOR RATED SWITCH. PROVIDE WIRING PER MFG REQ.
6. PROVIDE NEW LUTRON PICO WIRELESS REMOTE SWITCH MODEL # PJ2-3BRL-GWH-L01. ADJUST THE NEW SWITCH HEIGHT TO 48" FROM FINISHED FLOOR.
7. PROVIDE NEW LUTRON CEILING MOUNTED DAYLIGHT SENSOR MODEL #LRF2-DCRB-WH. PROVIDE LUTRON POWER PACK MODEL #RMJS-8TN-DV-B AND OTHER ACCESSORIES AS NEEDED FOR FULL FUNCTIONALITY OF THE SENSOR. REFER TO LIGHTING CONTROLS DIAGRAM SHEET E-114.
8. PROVIDE NEW LUTRON CEILING MOUNTED OCCUPANCY SENSOR MODEL #LRF2-OCR2B-P-WH. PROVIDE LUTRON POWER PACK MODEL #RMJS-8TN-DV-B AND OTHER ACCESSORIES AS NEEDED FOR FULL FUNCTIONALITY OF THE SENSOR. REFER TO LIGHTING CONTROLS DIAGRAM SHEET E-114.
9. PROVIDE NEW EXTERIOR LIGHT FIXTURE WITH EMERGENCY BATTERY PACK (MINIMUM 90 MINUTES BATTERY RUN TIME). CONNECT TO NEAREST EXTERIOR LIGHTING CIRCUIT. PROVIDE ALL NECESSARY CONDUITS, CONDUCTORS AND ACCESSORIES FOR FULLY OPERATIONAL SYSTEM. PROVIDE A SEPARATE UN-SWITCHED HOT WIRE TO THE LIGHT FIXTURE.
10. PROVIDE NEW WALL MOUNTED COMBINATION SWITCH/ OCCUPANCY SENSOR MODEL #MS-OPS2-WH. ADJUST THE NEW SWITCH HEIGHT TO 48" FROM FINISHED FLOOR.
11. PROVIDE 20-AMP MOTOR RATED SWITCH FOR CONDENSATE PUMP POWER, FIELD VERIFY THE LOCATION , REFER TO PLUMBING DETAIL 6 ON PLUMBING SHEET P-002.
12. PROVIDE LIGHT FIXTURE WITH INTEGRATED BATTERY PACK. PROVIDE A SEPARATE UN-SWITCHED HOT WIRE TO THE LIGHT FIXTURE.
13. EXISTING WALL MOUNTED COMBINATION SWITCH/ OCCUPANCY SENSOR TO REMAIN.
14. PROVIDE NEW EXIT SIGN WITH EMERGENCY BATTERY PACK (MINIMUM 90 MINUTES BATTERY RUN TIME). CONNECT TO NEAREST LIGHTING CIRCUIT. PROVIDE ALL NECESSARY CONDUITS, CONDUCTORS AND ACCESSORIES FOR FULLY OPERATIONAL SYSTEM. PROVIDE A SEPARATE UN-SWITCHED HOT WIRE TO THE FIXTURE.
15. REPLACE (E) PANEL WITH (N) IN PLACE AS SHOWN ON SINGLE LINE DIAGRAM, FIELD VERIFY THE LOCATION OF ALL (E) PANELS
16. J-BOX FOR HVAC CONTROL PANEL SUPPLY, COORDINATE WITH HVAC CONTROLS MFG AND PROVIDE ALL REQUIRED ACCESSORIES INCLUDING BUT NOT LIMITED TO CONDUITS, WIRES, EXTENSIONS, 24V TRANSFORMERS FOR A FULLY OPERATIONAL SYSTEM

AS REVISED
CCD 27
DSA A# 03-120049

KEY PLAN



APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-120049 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 03/26/2024

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Check by: -
Revisions

No.	Date	Description
2	02/01/2024	CCD 27A

All dimensions must be checked at the job by the contractor who accepts full responsibility for their accuracy under the contract. These plans & the specifications in connection therewith have been prepared for a specific site. Any and all responsibility for their use in whole or in part on any other site is hereby disclaimed by Flewelling & Moody.

OXNARD UNION HIGH SCHOOL DISTRICT

CAMARILLO HIGH SCHOOL ALERATIONS PROJECT

4660 MISSION OAKS BLVD.
CAMARILLO, CA 93012

Drawing Title

BUILDING 'I'
RECONSTRUCTION
EQ. POWER PLAN AND
RECONSTRUCTION
LIGHTING PLAN

Job No. 2840.100
Sheet No. EI-201
Date 09/08/2020

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER & MODEL NUMBER	MOUNTING	SOURCE COLOR TEMP LUMENS	WATTS	SYSTEM INPUT WATTS	VOLTAGE	DIMMING	DESCRIPTION	NOTES
A	LITHONIA#2BLT4-40L-ADP-MVOLT-GZ1-LP840	RECESSED	LED 4000K 6400lm	31W	31W	MVOLT	DIMMABLE	BLT 600X1200 MG, 4000 NOMINAL LUMENS, CURVED LINEAR PRISMATIC LENS, 4000K, 82CRI	
B	LITHONIA#GRD-LSL-4FT-MSL8-80CRI-40K-ID1000LMF-20/80	PENDANT	LED 4000K 1000lm	32W	32.2W	UNV	DIMMABLE	GRAD LED, 4 FT SECTION, 1000LMF, 20% UP, 80% DOWN, 80CRI, 4000K	
C	LITHONIA#STL4-40L-MVOLT-LP840	SURFACE	LED 4000K 4000lm	35W	35W	MVOLT	DIMMABLE	STL4 4FT, 4000 NOMINAL LUMENS, 4000K	
CE	LITHONIA#STL4-40L-MVOLT-LP840I-E10WLCP	SURFACE	LED 4000K 4000lm	35W	35W	MVOLT	DIMMABLE	STL4 4FT, 4000 NOMINAL LUMENS, 4000K, EMERGENCY BATTERY PACK (MINIMUM 90 MINUTES BATTERY RUN TIME)	
D	LITHONIA#TMSL-MVOLT-GZ10-40K-90CRI	PENDANT	LED 4000K 8000lm	58W	58W	MVOLT	DIMMABLE	TMSL, 4000K, 8000LM, 90CRI, MVOLT	
DE	LITHONIA#TMSL-MVOLT-GZ10-40K-90CRI-E10WLCP	PENDANT	LED 4000K 8000lm	58W	58W	MVOLT	DIMMABLE	TMSL, 4000K, 8000LM, 90CRI, MVOLT, EMERGENCY BATTERY PACK (MINIMUM 90 MINUTES BATTERY RUN TIME)	
F	LITHONIA#IBGN-18000LM-HEF-MVOLT-GZ10-40K90CRI	SURFACE	LED 4000K 18000lm	102W	102W	MVOLT	DIMMABLE	IBGN 4FT, 18000LM, PREMIUM EFFICIENCY, WIDE DISTRIBUTION, CLEAR POLYCARBONATE LENS, 4000K, 90CRI	
FE	LITHONIA#IBGN-18000LM-HEF-MVOLT-GZ10-40K90CRI-PS10250BC- E10WCP	SURFACE	LED 4000K 18000lm	102W	102W	MVOLT	DIMMABLE	IBGN 4FT, 18000LM, PREMIUM EFFICIENCY, WIDE DISTRIBUTION, CLEAR POLYCARBONATE LENS, 4000K, 90CRI, EMERGENCY BATTERY PACK (MINIMUM 90 MINUTES BATTERY RUN TIME)	
G	LITHONIA#GRD-LSL-8FT-MSL8-80CRI-40K-ID1000LMF-20/80-ZT-UNV	PENDANT	LED 4000K 1000lm	64W	64.4W	UNV	DIMMABLE	GRAD LED, 8 FT SECTION, 1000LMF, 20% UP, 80% DOWN, 80CRI, 4000K	
H	LITHONIA#2BLT2-33L-MVOLT-GZ10-LP840	RECESSED	LED 4000K 3300lm	26W	26W	MVOLT	DIMMABLE	BLT 600X600 MG, 3300 NOMINAL LUMENS, CURVED LINEAR PRISMATIC LENS, 4000K, 82CRI	
JE	LITHONIA#2BLT4-40L-ADP-MVOLT-GZ1-LP840-E10WLCP	RECESSED	LED 4000K 6400lm	31W	31W	MVOLT	DIMMABLE	BLT 600X1200 MG, 4000 NOMINAL LUMENS, CURVED LINEAR PRISMATIC LENS, 4000K, 82CRI, EMERGENCY BATTERY PACK (MINIMUM 90 MINUTES BATTERY RUN TIME)	
X1	LITHONIA#WSTLED-P1-40K-VW-MVOLT-E20WH	SURFACE	LED 4000K 1659lm	12W	12W	MVOLT	-	4000K, EMERGENCY BATTERY PACK (MINIMUM 90 MINUTES BATTERY RUN TIME)	
X2	LITHONIA#LV-S-W-1-R-120/277-ELN-UM	UNIVERSAL MOUNT	LED	3W	3.3W	MVOLT	-	LITHONIA LED EXIT LIGHTING, EMERGENCY BATTERY PACK (MINIMUM 90 MINUTES BATTERY RUN TIME)	

GENERAL NOTES:

1 - PROVIDE ALL LIGHTING FIXTURES AS SHOWN COMPLETE WITH LAMPS, WIRED, CONTROLLED AND SECURELY ATTACHED TO SUPPORTS.
2 - PROVIDE UL LISTED DRIVERS OR SCOKETS WITH MANUFACTURER LABEL LISTED PER THE INPUT SYSTEM WATTS AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE.
3 - THE LIGHTING FIXTURES AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STANDARDS AND REGULATIONS OF THE FOLLOWING:
A. UNDERWRITERS LABORATORIES (UL)
B. CALIFORNIA ELECTRICAL CODE (CEC)
C. LOCAL BUILDING AND LIFE SAFETY CODE AGENCIES.
D. LM-79-08, LM-80-08 AND TM-21-11 LISTED
4 - ALL FIXTURES AND WORKMANSHIP SHALL BE GUARANTEED FREE OF DEFECTS AND FULLY OPERATIONAL. ANY FIXTURES OR WORKMANSHIP FOUND TO BE DEFECTIVE DURING THE WARRANTY PERIOD WILL BE EITHER FIXED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
5 - PROVIDE ADEQUATE AND STURDY SUPPORT FOR EACH LIGHTING FIXTURE OR POLE LIGHT ASSEMBLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERFYING THE WEIGHT AND MOUNTING METHOD OF ALL FIXTURES AND FURNISH AND INSTALL SUITABLE SUPPORTS OR BASE FOOTINGS. FIXTURE MOUNTING ASSEMBLIES SHALL COMPLY WITH ALL LOCAL SEISMIC CODES AND REGULATIONS.
NOTE: CONTRACTOR SHALL REFER TO ARCHITECTURAL OR STRUCTURAL DRAWINGS FOR FOOTING REQUIREMENTS.
6 - PROVIDE ALL LIGHT FIXTURES EQUIPPED WITH COMPATIBLE DIMMING DRIVERS PER THE LIGHTING CONTROLS SYSTEM.
7 - PROVIDE UL924 DEVICES FOR ALL EMERGENCY FIXTURES.
8- AT THE COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL CLEAN LENSES AND REFLECTORS OF ALL LIGHT FIXTURES SO AS TO RENDER THEM FREE OF ANY MATERIAL, SUBTANCE OR FILM FOREIGN TO THE FIXTURE. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES SHALL BE REPLACED IN A SATISFACTORY MANNER.
9 - CONTRACTOR SHALL CONFIRM ALL LIGHT FIXTURE VOLTAGES WITH LIGHTING PLANS AND LIGHTING PANEL SCHEDULES.
10 - PROVIDE ALL FINISHES FOR ALL LIGHT FIXTURES PER THE ARCHITECTS FINAL SELECTION.

(2) ELECTRICAL LIGHT FIXTURE SCHEDULE
N.T.S

FUTURE LOAD

Future buildings - Classroom Unit T4+T3+5(24X40)

Area classification	Area(Sqft) (Approx)	Lighting (VA/sf)	A/C (VA/sf)	Misc (VA/sf)	Total (VA/sf)	Total VA
Classrooms	13,800	3	7.03370493	2	12.0337049	166,065

Future Building - Snack shack

Area classification	Area(Sqft) (Approx)	Lighting (VA/sf)	A/C (VA/sf)	Misc (VA/sf)	Total (VA/sf)	Total VA
Food Courts	2,500	2	7.03370493	4	13.0337049	32,584

Future Building - Cafeteria storage

Area classification	Area(Sqft) (Approx)	Lighting (VA/sf)	A/C (VA/sf)	Misc (VA/sf)	Total (VA/sf)	Total VA
Storage	250	0.25	3	1	4.25	1,063

Future Building - Performance arts center

Area classification	Area(Sqft) (Approx)	Lighting (VA/sf)	A/C (VA/sf)	Misc (VA/sf)	Total (VA/sf)	Total VA
Art theatre	5,000	1	7.03370493	2	10.0337049	50,169

Future Gym modernization

	Total VA
Addition - Teadmills(5@ 1500VA)	7,500
Addition - Elliptical/Arc Trainers(5@ 1500VA)	7,500
Addition - Stairmasters(5@ 1500VA)	7,500
Future FA system supply	4,500
Future PA/security system supply	4,500
Future LV System supply	4,500
Future Data/Voice System supply	4,500

Total building	**21,550**		**290,380**
		or	**807** amps
			@ 120/208volt, 3 phase, 4 wire

HVAC LOAD	ADDED LOAD	DEMO LOAD	OVERALL LOAD
BUILDING	KVA	KVA	KVA
A	102.43	11.00	91.43
B	67.80	6.00	61.80
C	91.88	10.00	81.88
D	65.67	6.00	59.67
F	104.34	1.00	103.34
G	135.65	3.00	132.65
H	45.81	4.00	41.81
(HVAC+DUST COLLECTOR LOAD)	109.31	5.00	104.31
J	43.81		43.81
K	49.17	3.00	46.17
L	109.52	12.00	97.52
M	76.21	5.00	71.21
N	146.18	3.00	143.18
O	82.08		82.08
P	12.04	1.00	11.04
Q	58.90	2.00	56.90
U	15.27		15.27
V	143.12	6.00	137.12
W	23.00		23.00
X	19.43	4.00	15.43
Y	19.43	4.00	15.43
AQUATIC CENTER	3.54	1.00	2.54
SUBTOTAL KVA			1437.56
25% LARGEST MOTOR(CEC 430.24)			22.86
TOTAL KVA			1460.42

(1) ELECTRICAL LOAD CALCULATION
N.T.S

ADOLFO CAMARILLO HS, OUHSD
EXISTING MAIN SERVICE LOAD CALCULATION

	MAX. kW	MAX kVA AT 0.85 PF	TOTAL KVA
MAXIMUM(PEAK)DEMAND OF EXISTING LOAD x 1.25	295	347	2166
NEW HVAC LOAD	---	1460	
FUTURE LOAD	---	358	
MAX. PEAK AMPS OF EXISTING LOAD @ 4.16KV		48	AMPS
HVAC AMPS @ 4.16KV		203	AMPS
~~FUTURE LOAD @ 4.16KV~~		~~50~~	~~AMPS~~
TOTAL AMPS@4.16KV		301	AMPS

DS1 SUBSTATION LOAD CALCULATION

	MAX. kW	MAX kVA	TOTAL KVA
MAXIMUM(PEAK)DEMAND OF EXISTING LOAD	109	154	752
NEW HVAC LOAD		384	
FUTURE LOAD		214	
MAX. PEAK AMPS OF EXISTING LOAD @ 4.16KV		21	AMPS
MAX. PEAK AMPS OF EXISTING LOAD @ 208V		428	AMPS
HVAC AMPS @ 208V		1067	AMPS
~~FUTURE LOAD @ 208V~~		~~594~~	~~AMPS~~
TOTAL AMPS@208V		2089	AMPS

DS2 SUBSTATION LOAD CALCULATION

	MAX. kW	MAX kVA	TOTAL KVA
MAXIMUM(PEAK)DEMAND OF EXISTING LOAD	161	203	661
NEW HVAC LOAD		362	
FUTURE LOAD		97	
MAX. PEAK AMPS OF EXISTING LOAD @ 4.16KV		28	AMPS
MAX. PEAK AMPS OF EXISTING LOAD @ 208V		563	AMPS
HVAC AMPS @ 208V		1006	AMPS
FUTURE LOAD @ 208V		269	AMPS
TOTAL AMPS@208V		1838	AMPS

DS3 SUBSTATION LOAD CALCULATION

	MAX. kW	MAX kVA	
MAXIMUM(PEAK)DEMAND OF EXISTING LOAD	95	133	904
NEW HVAC LOAD		723	
FUTURE LOAD		48	
MAX. PEAK AMPS OF EXISTING LOAD @ 4.16KV		19	AMPS
MAX. PEAK AMPS OF EXISTING LOAD @ 208V		370	AMPS
HVAC AMPS @ 208V		2008	AMPS
FUTURE LOAD @ 208V		134	AMPS
TOTAL AMPS@208V		2512	AMPS

AS REVISED
CCD 27
DSA A# 03-120049

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 03-120049 INC:
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SS ☑ FLS ☑ ACS ☐
DATE: 03/26/2024

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Revisions

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OXNARD UNION HIGH SCHOOL DISTRICT

CAMARILLO HIGH SCHOOL ALERATIONS PROJECT

4660 MISSION OAKS BLVD.
CAMARILLO, CA 93012

Drawing Title

ELECTRICAL
LIGHT FIXTURE SCHEDULE
& LOAD CALCULATION

Job No. 2840.100
Sheet No. E-110
Date 09/08/2020