GENERAL INFORMATION

G000	COVER SHEET
G001	REGULATORY COMPLIANCE SITE PLAN
G002	BUILDING DATA TABLE AND FIRMETTE MAP
G101	REGULATORY COMPLIANCE FLOOR PLAN - BLDG A
G102	REGULATORY COMPLIANCE FLOOR PLAN - BLDG B
G103	REGULATORY COMPLIANCE FLOOR PLAN - BLDG C, E & G
G104	REGULATORY COMPLIANCE FLOOR PLAN - BLDG D AND F
G105	REGULATORY COMPLIANCE FLOOR PLAN - BLDG H
G106	REGULATORY COMPLIANCE FLOOR PLAN - BLDG I
G107	REGULATORY COMPLIANCE FLOOR PLAN - BLDG J
G108	REGULATORY COMPLIANCE FLOOR PLAN - BLDG K
G109	REGULATORY COMPLIANCE FLOOR PLAN - BLDG P

ARCHITECTURAL SITE

SITE DEVELOPMENT

SD/A010	OVERALL SITE DEMOLITION PLAN
SD/A011	PARTIAL SITE DEMOLITION PLAN
SD/A100	OVERALL SITE PLAN
SD/A101	PARTIAL SITE PLAN
SD/A101.1	PARTIAL SITE PLAN - ALTERNATE BID NO. 1
SD/A201	PARTIAL SITE DIMENSION PLAN
SD/A201.1	PARTIAL SITE DIMENSION PLAN - ALTERNATE BID NO. 1
SD/A301	SITE DETAILS
SD/A302	DETAILS - ACCESSIBLE ELEMENTS AND ENCLOSURE DETAILS
SD/A302.1	SCHOOL SIGN - ALTERNATE BID NO. 2
SD/A303	CHAIN LINK FENCE & PORTABLE DETAILS
SD/A304	ORNAMENTAL METAL FENCE & GATES DETAILS

ARCHITECTURAL

TYPICAL INFORMATION

X/A101	WALL ASSEMBLIES
X/A201	INTERIOR & EXTERIOR FINISH SCHEDULE
X/A301	MODULAR CASEWORK SCHEDULE AND DETAILS
X/A302	CUSTOM CASEWORK- BUILDING A- a A-8
X/A303	CUSTOM CASEWORK- BUILDING A- b A-8 and c A-8
X/A305	CUSTOM CASEWORK DETAILS
X/A306	BLDG A - 3D VIEWS
X/A401	OPENING SCHEDULES
X/A402	OPENING DETAILS
X/A501	EXTERIOR PAINTING DETAILS
X/A601	INTERIOR DETAILS
X/A602	INTERIOR DETAILS-ACOUSTICAL CEILINGS
X/A701	OVERALL SIGNAGE SITE PLAN
X/A702	SIGNAGE PLAN AND SCHEDULE

BUILDING A

A/A001	DEMOLITION FLOOR PLAN
A/A002	DEMOLITION REFLECTED CEILING PLAN
A/A101	FLOOR PLAN
A/A201	REFLECTED CEILING PLAN
A/A301	ROOF PLAN
A/A401	EXTERIOR ELEVATIONS
A/A402	BUILDING SECTIONS
A/A601	INTERIOR ELEVATIONS
A/A602	INTERIOR DETAILS
A/A701	SIGNAGE PLAN AND SCHEDULE

BUILDING B

B/A101	DEMOLITION FLOOR AND FLOOR PLAN
B/A201	DEMOLITION AND REFLECTED CEILING PLAN
B/A301	DEMOLITION ROOF PLAN
B/A302	ROOF PLAN
B/A401	EXTERIOR ELEVATIONS
B/A601	INTERIOR ELEVATIONS
B/A701	SIGNAGE PLAN AND SCHEDULE

BUILDING C

C/A301	DEMOLITION ROOF PLAN
C/A302	ROOF PLAN
C/A401	EXTERIOR ELEVATIONS
C/A701	SIGNAGE PLAN AND SCHEDULE

BUILDING D

D/A301	ROOF PLAN
D/A401	EXTERIOR ELEVATIONS

BUILDING E

E/A301	DEMOLITION ROOF PLAN
E/A302	ROOF PLAN
E/A401	EXTERIOR ELEVATIONS
E/A701	SIGNAGE PLAN AND SCHEDULE

BUILDING F

F/A301	ROOF PLAN
F/A401	EXTERIOR ELEVATIONS

BUILDING G

G/A301	DEMOLITION ROOF PLAN
G/A302	ROOF PLAN
G/A401	EXTERIOR ELEVATIONS
G/A701	SIGNAGE PLAN AND SCHEDULE

BUILDING H

H/A301	DEMOLITION ROOF PLAN
H/A302	ROOF PLAN
H/A401	EXTERIOR ELEVATIONS

BUILDING I - ALTERNATE BID NO. 1

I/A001.1	DEMOLITION FLOOR AND CEILING PLAN
I/A101.1	FLOOR AND REFLECTED CEILING PLAN
I/A301.1	ROOF PLAN
I/A401.1	EXTERIOR ELEVATIONS
I/A601.1	INTERIOR ELEVATIONS
I/A701.1	SIGNAGE PLAN AND SCHEDULE

BUILDING J

J/A301	DEMOLITION ROOF AND ROOF PLAN
J/A401	EXTERIOR ELEVATIONS

BUILDING K

K/A301	ROOF PLAN
K/A401	EXTERIOR ELEVATIONS

BUILDING P

P/A101	PORTABLE BUILDING
P/A102	SHADE STRUCTURE
P/A701	SIGNAGE PLAN AND SCHEDULE

CIVIL

SITE DEVELOPMENT

C0	TOPO
C1	GRADING PLAN
C2	GRADING DETAILS
C3	SITE UTILITY PLAN

LANDSCAPE AND IRRIGATION

SITE DEVELOPMENT

SD/L100	LANDSCAPE DEMOLITION PLAN PARTIAL SITE PLAN
SD/L101	IRRIGATION DEMOLITION PLAN PARTIAL SITE PLAN
SD/L102	LANDSCAPE & IRRIGATION DEMOLITION LEGEND & NOTES
SD/L200	LANDSCAPE PLANTING PLAN PARTIAL SITE PLAN
SD/L201	LANDSCAPE PLANTING LEGEND AND NOTES
SD/L202	LANDSCAPE IRRIGATION PLAN PARTIAL SITE PLAN
SD/L203	LANDSCAPE IRRIGATION LEGENDS & KEYNOTES
SD/L300	LANDSCAPE & IRRIGATION DETAILS
SD/L301	LANDSCAPE & IRRIGATION DETAILS

STRUCTURAL

TYPICAL INFORMATION

X/S101	TYPICAL PROJECT NOTES
X/S102	TYPICAL WOOD NOTES & DETAILS
X/S103	TYPICAL WOOD NOTES & PROJECTS

BUILDINGS

B&C/S301	ROOF FRAMING PLAN
E&G/S301	ROOF FRAMING PLAN
H/S301	ROOF FRAMING PLAN
I&J/S301	ROOF FRAMING PLAN

MECHANICAL

SITE DEVELOPMENT

SD/M101	MECHANICAL SITE PLAN
SD/M102	ENLARGED MECHANICAL SITE PLAN

TYPICAL INFORMATION

X/M101	MECHANICAL LEGEND AND GENERAL NOTES
X/M102	MECHANICAL SCHEDULES
X/M103	MECHANICAL SCHEDULES
X/M800	MECHANICAL DETAILS
X/M900	TITLE 24 DOCUMENTATION
X/M901	TITLE 24 DOCUMENTATION
X/M902	TITLE 24 DOCUMENTATION

BUILDINGS

A/M201	MECHANICAL FLOOR PLAN
B/M201	MECHANICAL FLOOR PLAN
B/M301	MECHANICAL ROOF PLAN
C/M301	MECHANICAL ROOF PLAN
E/M301	MECHANICAL ROOF PLAN
G/M301	MECHANICAL ROOF PLAN
H/M301	MECHANICAL ROOF PLAN
J/M301	MECHANICAL ROOF PLAN

PLUMBING

SITE DEVELOPMENT

SD/P101	PLUMBING SITE PLAN
SD/P102	ENLARGED PLUMBING SITE PLAN

TYPICAL INFORMATION

X/P101	PLUMBING SCHEDULE, LEGENDS, AND NOTES
X/P800	PLUMBING DETAILS

BUILDINGS

A/P201	PLUMBING FLOOR PLAN
B/P201	PLUMBING FLOOR PLAN
B/P301	PLUMBING ROOF PLAN
C/P301	PLUMBING ROOF PLAN
E/P301	PLUMBING ROOF PLAN
G/P301	PLUMBING ROOF PLAN
H/P301	PLUMBING ROOF PLAN
J/P301	PLUMBING ROOF PLAN

ELECTRICAL

SITE DEVELOPMENT

SD/E101	ELECTRICAL SITE PLAN
SD/E102	FIRE ALARM SITE PLAN
SD/E201	BUILDING P15 AND SHADE STRUCTURE ENLARGED ELECTRICAL SITE PLAN
SD/E301	PORTABLE BLDGS P1 THRU P14 ENLARGED ELECTRICAL SITE PLAN
SD/E302	PORTABLES P1 THRU P14 FIRE ALARM PLAN

TYPICAL INFORMATION

X/E101	ELECTRICAL SYMBOLS LEGEND AND GENERAL NOTES
X/E201	SINGLE LINE DIAGRAM
X/E202	COMMUNICATIONS RISER DIAGRAM
X/E203	LIGHTING SCHEDULES AND CONTROL DETAILS
X/E301	ELECTRICAL DETAILS
X/E302	ELECTRICAL DETAILS
X/E303	ELECTRICAL DETAILS
X/E401	FIRE ALARM RISER DIAGRAM
X/E402	FIRE ALARM RISER DIAGRAM
X/E403	FIRE ALARM DETAILS
X/E404	FIRE ALARM CALCULATIONS
X/E405	FIRE ALARM CALCULATIONS
X/E406	FIRE ALARM CALCULATIONS
X/E407	FIRE ALARM CALCULATIONS
X/E501	TITLE 24 INTERIOR LIGHTING COMPLIANCE FORMS
X/E502	TITLE 24 EXTERIOR LIGHTING COMPLIANCE FORMS
X/E503	TITLE 24 POWER COMPLIANCE FORMS

BUILDINGS

A/E001	BUILDING A ELECTRICAL DEMOLITION FLOOR PLAN
A/E101	BUILDING A POWER & SIGNAL FLOOR PLAN
A/E201	BUILDING A LIGHTING FLOOR PLAN
A/E401	BUILDING A FIRE ALARM FLOOR PLAN
B/E101	BUILDING B ELECTRICAL FLOOR PLAN
B/E201	BUILDING B LIGHTING FLOOR PLAN
B/E301	BUILDING B ELECTRICAL ROOF PLAN
B/E401	BUILDING B FIRE ALARM FLOOR PLAN
C/E301	BUILDING C ELECTRICAL ROOF PLAN
C/E401	BUILDING C & I-3 FIRE ALARM FLOOR PLAN
D/E401	BUILDING D FIRE ALARM FLOOR PLAN
E/E301	BUILDING E ELECTRICAL ROOF PLAN
E/E401	BUILDING E & F FIRE ALARM FLOOR PLAN
G/E301	BUILDING G ELECTRICAL ROOF PLAN
G/E401	BUILDING G, I-4, I-5 & P15 FIRE ALARM FLOOR PLAN
H/E301	BUILDING H ELECTRICAL ROOF PLAN
H/E401	BUILDING H FIRE ALARM FLOOR PLAN
I/E301	BUILDING I ELECTRICAL ROOF PLANS
I/E401	BUILDING I LIGHTING FLOOR PLANS
J/E301	BUILDING J ELECTRICAL ROOF PLAN
J/E401	BUILDING J FIRE ALARM FLOOR PLAN
K/E401	BUILDING K FIRE ALARM FLOOR PLAN
P/E401	BUILDING P15 POWER AND SIGNAL FLOOR PLAN

PREPARED BY OTHERS

STOCKPILE A-65965, Modified per A04-121040

T-1	COVER SHEET
T-2	SERIAL NUMBERS
T-3	TITLE 24 ENERGY CALCULATIONS
T-4	TITLE 24 ENERGY CALCULATIONS
S-1	MODIFICATION PLAN FOR 48X40 BUILDINGS
A-1	MODIFICATION PLAN FOR 48X40 BUILDINGS
A-2	WINDOW, DOOR & FINISH SCHEDULE
A-3	ROOF PLAN
A-4	EXTERIOR ELEVATION 48X40 BLDG
A-5	GENERAL SPECIFICATIONS
E-1	MODIFICATION PLAN FOR 48X40 BUILDINGS
M-1	MODIFICATION PLAN FOR 48X40 BUILDINGS

PC No. 04-119396 DSA FOUNDATION PLANS

F-1	COVER SHEET
F-2	A-NUMBERS
F-5A	FOUNDATION PLANS
F-6	DETAILS
F-7	GENERAL SPECIFICATIONS
F-7A	DSA FORM 103
F-8	ADJACENT BLDGS
F-9	ADJACENT BLDGS

Fabric Shade Structure PC No. 04-121376

T001	TITLE SHEET
A002	T & I GUIDELINE
S1.1	GENERAL NOTES & TYPICAL DETAILS
S1.2	GENERAL NOTES & TYPICAL DETAILS
S1.3	GENERAL NOTES & TYPICAL DETAILS
S2	CUSTOM CANOPIES 2019 CBC DRAWINGS
S3	CUSTOM CANOPIES 2019 CBC DRAWINGS
S4	CUSTOM CANOPIES 2019 CBC DRAWINGS

SHEET COUNT: 209

The following DSA Applications shall be certified prior to the start of Construction:

DSA #04-121040 Stockpile of Portable Building P15
DSA #03-121657

RECENTLY CERTIFIED:

DSA #03-120925: On 2/13/2023 #1-Certification & Close of File

A7 | Status of DSA Certification & Encumbrance

Statement of General Conformance

FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO, SHOP DRAWINGS PREPARED BY OTHER LICENSED DESIGN PROFESSIONAL AND/OR CONSULTANTS

DSA Application No. 03-122615 **DSA File No.** 15-95

Refer to the Index Sheet indicated "Prepared by Others"

These drawings, specifications, and calculations, have/has been prepared by other Design Professionals or Consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) Design intent, and appears to meet the appropriate requirements of Title 24, California Code of Regulations, and the project specification prepared by me,

and

2) Coordination with my plans and specifications, and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code, and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1 (Title 24, Part 1, Section 4-317 (b)).

I find that: [X] All drawings or sheets listed on the Cover or Index Sheet

[ ] This Drawing or Page

[X] is/are in general conformance with the project design intent,

and

[X] has/have been coordinated with the project plans and specifications

[ ] is/are in general conformance with the project design intent,

and

[ ] has/have been coordinated with the project plans and specifications

Signature	Date	Signature	Date
	06/06/2023		
Architect or Engineer designated to be in general responsible charge		Architect or Engineer delegated responsibility for this portion of the work	
Print Name: Michael K. Fennacy		Print Name	
License Number: C23724	Expiration Date: 04/30/25	License Number	Expiration Date

L11 | Statement of General Conformance

The California Energy Code Section 10-103 requires Acceptance Testing on all newly installed lighting controls, mechanical systems, envelopes, and process equipment after installation and before project completion. An Acceptance Test is a functional performance test to help ensure that newly installed equipment is operating and in compliance with the Energy Code.

Lighting Controls acceptance tests must be performed by a certified lighting controls Acceptance Test Technician (ATT).

Mechanical System acceptance tests must be performed by a certified mechanical ATT for projects submitted on or after October 1, 2021.

Envelope and process equipment acceptance tests shall be performed by the installing Contractor, Engineer/Architect of Record or the Owner's agent.

A listing of certified ATT can be found at:

https://www.energy.ca.gov/programs-and-topics/programs/acceptance-test-technician-certification-provider-program/acceptance

The Acceptance Testing procedures must be repeated, and deficiencies must be corrected by the builder or installing Contractor until the construction/installation of the specified systems conform and pass the required acceptance criteria.

Project Inspectors will collect the forms to confirm that the required Acceptance Tests have been completed.

G11 | California Energy Code Requirement

SCOPE OF WORK:

BUILDINGS:
Remodel the existing Office Lobby at BLDG A
Reconfiguration of the existing interior space at BLDG B and remodel of the existing toilet rooms
Campus-wide HVAC Improvements, see Mechanical Drawings; See Alternate Bid No. 3.
Campus-wide Fire Alarm Replacement, see Electrical Drawings; See Alternate Bid No. 4.
Campus-wide Exterior Painting Improvements
Install one (1) Shade Structure used as Outdoor Classroom; Building P15-S (PC 04-121376)
Addition of one (1) Relocated Portable Building; Building P15 (Stockpile A-65965, Modified per A04-121040)
See Detail A14 on this sheet for the Inspection Requirements for Relocatable Buildings.

SITE DEVELOPMENT:
Site Development work required for new Relocatable Portable Building
Remove and replace portions of concrete as required for path-of-travel improvements
Remove and replace portions of concrete, landscape, utilities, and irrigation for new campus entry improvements
Accessible Parking Improvements at Parking Lot 3
Add new accessible drinking fountain east of the new Relocatable Portable Building

OWNER FURNISHED ITEMS (NOT PART OF DSA APPROVAL):
The materials will be delivered to the site, FOB
Contractor shall off-load materials and place them in an area approved by the Owner
Contractor shall fence and protect materials
Prepare site for OFCI Shade Structure

ALTERNATES: Refer to Specification Section 012300 - ALTERNATES

ADDITIVE ALTERNATE BID NO. 1: Building I-1 and I-5 Improvements
1) Refer to Drawings SD/011.1 and SD/A101.1 for the area of Alternate Bid No. 1
2) Refer to Drawings I/A001.1, I/A101.1, I/A301.1, I/A401.1, and I/A601.1 for improvements to BLDG I-1 and I-5

ADDITIVE ALTERNATE BID NO. 2: School Sign
1) Refer to Drawing SD/A302.1,
2) Refer to 10 05 00 MISCELLANEOUS SPECIALTIES
3) Provide all work to remove and replace the school sign

ADDITIVE ALTERNATE BID NO. 3: HVAC Units replacement and electrical connections
1) Provide all Mechanical work at Buildings C, E, G, H, and J.
2) Provide all Electrical work at Buildings C, E, G, H, and J.
3) The Mechanical and Electrical work at Buildings A and B are Base Bid.

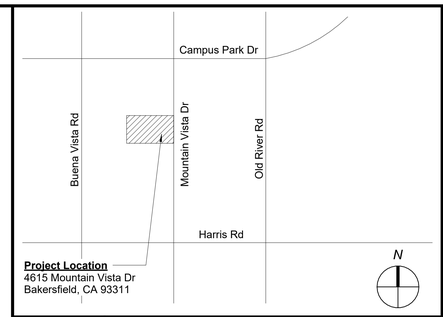
ADDITIVE ALTERNATE BID NO. 4: Electrical Fire Alarm Upgrades
1) Provide all Fire Alarm work at Buildings C, E, F, G, J, H, and K.
2) The Electrical Fire Alarm work at Buildings A and B are Base Bid.

FIRE ALARM SYSTEM
Remove and replace the fire alarm system; all devices, wires and panels. See Alternate Bid No. 4.

ABBREVIATIONS:

CFCI Contractor Furnished Contractor Installed
OFOI Owner Furnished Owner Installed, coordinated by GC
OFCI Owner Furnished Contractor Installed
GC General Contractor
RBM Relocatable Building Manufacturer
PB Portable Building (aka Relocatable Building)
FA Fire Authority

B11 | Project Description



Project Location
4615 Mountain Vista Dr
Bakersfield, CA 93311

N14 | Vicinity Map

All work shall be performed in accordance with current applicable codes and standards including, but not limited to, the following:

California Code of Regulations (CCR)
CCR-T5: Title 5-Education
CCR-T8: Title 8-Industrial Safety
CCR-T19: Title 19-Public Safety
CCR-Title 24:

Building Codes and Standards:

2022 California Building Standards Administrative Code (Part 1, Title 24, CCR)

2019 California Building Code, Volumes 1 and 2 (Part 2, Title 24, CCR)

2019 California Electrical Code (Part 3, Title 24, CCR)

2019 California Mechanical Code (Part 4, Title 24, CCR)

2019 California Plumbing Code (Part 5, Title 24, CCR)

2019 California Energy Code (Part 6, Title 24, CCR)

2019 California Elevator Safety Construction Code (Part 7, Title 24, CCR)

2019 California Fire Code, Part 9, Title 24, CCR)

2019 California Referenced Standards Code (Part 12, Title 24, CCR)

2019 California Green Building Standards Code

NFPA 72, 2016 Edition, National Fire Alarm Code

Division of the State Architect (DSA):
SSS: Structural Safety Section
ACS: Access Compliance Section
FLS: Fire Life Safety
Interpretation of Regulation Manual

J14 | Applicable Codes

Notes:
1. The Contractor Shall Be Responsible For The Preparation and Submittal Of The Deferred Approval Items To The Division Of The State Architect (DSA) For Review and Approval Prior To The Installation. The Submittal Shall Comply With The Requirements Of Specification Section 013300: Submittals.
2. Installation of Deferred Approval items shall not be started until Contractor's drawing, specifications, and engineering calculations for the actual system(s) to be installed have been reviewed by the Architect and/or the Structural Engineer, and approved by the DSA.

Description of Deferred Item
None
.
.

G14 | Deferred Approval

These drawings and specifications intend that the work of the alteration, rehabilitation, or reconstruction is to be in accordance with Title 24, CCR. Should any existing conditions, such as deterioration or non-complying construction be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, CCR, a Construction Change Document (CCD), or a separate set of plans and specifications, detailing and specifying the required work shall be submitted to and approved by DSA before proceeding with the work. (Section 4-317 (C), Part 1, Title 24, CCR).

Changes to the approved drawings and specifications shall be made by an Addendum or a Construction Change Document (CCD) approved by the Division of the State Architect. (Section 4-338, Part 1. Title 24, CCR).

A "DSA Certified" Class 2 Project Inspector employed by the Owner and approved by DSA shall continuously inspect the work. The duties of the inspector are defined in Section 4-342, Part 1, Title 24, CCR.

A DSA accepted Testing Laboratory directly employed by the Owner shall conduct all the required tests and inspections for the project.

Grading plans, drainage improvements, road and access requirements, and environmental health considerations shall comply with all local ordinances.

The Site Inspector shall verify that the above documents apply to each unit before the unit(s) are installed. Notify the Architect and DSA/SSS Field Engineer if any discrepancies occur.

Provide a Copy of the Above Reports for each Stockpile Building(s) at Back Check.

Project Inspector to verify site inspections per DSA IR 16-1, Appendix A

A. Building identification: Permanent identification label has the correct application number. For new construction, the DSA application number and serial numbers shall match the in-plant inspector's form DSA 152 IPI: In-plant Inspector Inspection Card/Verified Report, and correct floor live load, live roof load, wind speed, seismic design parameter, and climate zone for site per the approved plans.

B. Under-floor ventilation sizes and locations are the same as shown on approved plans and are unobstructed.

C. Wood foundation plates are pressure-treated and identified with tags having appropriate treatment identification.

D. Wood foundation plate size and layout and steel pipes are per approved plans.

E. Shear transfer plates, connectors, structural plywood skirting, and nailing are per approved plans.

F. Ramp slope starts a minimum of 42 inches from the door strike.

G. Electrical bonding is provided between steel frame modules and ramp. Project Inspector to verify and witness Grounding Tests.

A14 | General Requirements

DSA File No.: *15-95*

DSA Application No.: *03-122615*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

STRUCTURAL
Brooks Ransom Associates
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Fresno CA 93711
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F (559) 449-8404

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Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District

Bakersfield, CA 93313

Date: 3/20/2022 Darden Project Number: 2228

Project Information

darden architects
ARCHITECTURE PLANNING INTERIORS
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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT REGISTERED PROFESSIONAL No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

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G000

darden architects, inc.
ARCHITECTURE ▪ PLANNING ▪ INTERIORS

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Parking Lot	Accessible Parking Spaces CBC Table 11B-208.2				Electric Charging Spaces CBC Table 11B-228.3.2.1				
	Total Spaces	Required Accessible	Van Accessible	Standard Accessible	Total EV	EV-V	EV-S	V-A	DSA Application Number
Lot 1	64	3	5	1	0	0	0	0	DSA No. 03-58053, 1992
Lot 2	25	1	1	1	0	0	0	0	DSA No. 03-58053, 1992 DSA No. 03-116944, 2016
Lot 3	17	1	1	1	0	0	0	0	DSA No. 03-58053, 1992

ABBREVIATIONS

EV-A Ambulatory
EV-S Standard Accessible
EV-V Van Accessible
EV Electric Vehicle Charging Station

N1 Parking Lot Table
NO SCALE

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION

School District/Owner: Panama-Buena Vista Union School District
Project Name/School: Earl Warren Junior High School - Modernization Phase I
Project Address: 4615 Mountain Vista Drive, Bakersfield, CA 93311

FIRE & LIFE SAFETY INFORMATION

1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☑	No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐	No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐	No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐ High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*		WIFA ☐

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 1 of 4 STATE OF CALIFORNIA

DSA 810
FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

CONDITION MEANS AND METHODS RESOLUTION		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.				✓
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.				✓
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.				✓
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.				✓
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: ______ Title: ______
Signature: ______ Date: ______

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name:
LFA Review Official:
Title: Work Phone:
Work Email:
LFA Reviewer's Signature: Date:

DGS DSA 810 (revised 12/29/20) DIVISION OF THE STATE ARCHITECT — DEPARTMENT OF GENERAL SERVICES — Page 2 of 4 STATE OF CALIFORNIA

PAID 12-16-22 5285

Warren JHS 4615 Mountain Vist. (CBK)

HYDRANT FLOW TEST FORM
CITY OF BAKERSFIELD WATER RESOURCES DEPARTMENT
1000 Buena Vista Road, Bakersfield, CA 93311
Phone: (661) 326-3715 Fax: (661) 852-2127
Email: Water@bakersfieldcity.us
Instructions: Complete Applicant Section • Return to City Water with Deposit of $285.00

I. PROJECT INFORMATION (TO BE COMPLETED BY APPLICANT) pjohnson@pbvusd.k12.ca.us
Name: Paul Johnson Phone: (661) 831-8331 Dec/2022
Company Address: Panama -Buena Vista USD 4200 Ashe Road Bakersfield, CA 93311
Project Address: 4615 Mountain Vista Drive (Warren Jr High School)
Nearest Cross Street/Distance (ft.): Campus Park
Occupancy (Use of Building): School Sprinklered (Y/N): N
Square Footage: 1920 Number of Stories: 1

II. FLOW TEST DATA (TO BE COMPLETED BY WATER DEPARTMENT)
FLOW HYDRANT:
ATLAS PAGE: 123-18 HYDRANT #: C010 OUTLET DIAMETER: 4" ✓ 2-1/2"
SIZE & MATERIAL OF WATER MAIN: unknown
Static PSI: 92 Residual PSI: 86 Pitot (PSI): 38 Observed Flow (GPM): 2649
Calculated Fire Flow @ 20 PSI: 10,149 Duration of Flow: 1 min. Date and Time: 12/20/2022 10:00 am
TEST (RESIDUAL) HYDRANT:
ATLAS PAGE: 123-18 HYDRANT #: C014
SIZE & MATERIAL OF WATER MAIN: 12" PVC
Static PSI: 92 Residual PSI: 86
TEST (RESIDUAL) HYDRANT:
ATLAS PAGE: ______ HYDRANT #: ______
SIZE & MATERIAL OF WATER MAIN: ______
Static PSI: ______ Residual PSI: ______

III. PUBLIC FIRE HYDRANT FIRE FLOW REQUIREMENTS (TO BE COMPLETED BY WATER DEPARTMENT)
Signature of WATER RESOURCES DEPARTMENT — Tylor S. Hester, Please Print Name
Time: 2:53 (am/pm) Date: 12-21-22
CC: Courtney Camps and Tamra Lopez of City Building and Planning
SCANNED 12/22/22
Y:\06- Facilities Tool Box\Hydrant Fire Flow Test\Warren\Warren Jr High - City of Bakersfield HYDRANT FLOW TEST 2017.docx

Hydrant Flow Test Report

Test Date 12/20/2022 **Test Time** 10:00am

Location
Earl Warren Junior High School
4615 Mountain Vista Drive

Tested by
Dan Perez
Lilian Vance
Mike Vradenburg
Jonathan Prieto

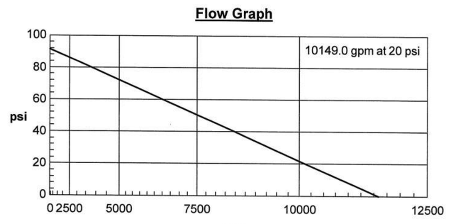
Notes
Flow hydrant is an private hydrant located on the westerly onsite driveway. Read hydrant is located on the westside of Mt Snow Lane & Mountain Vista Drive.

Read Hydrant
92 psi **static pressure**
86 psi **residual pressure**
358 ft **hydrant elevation**

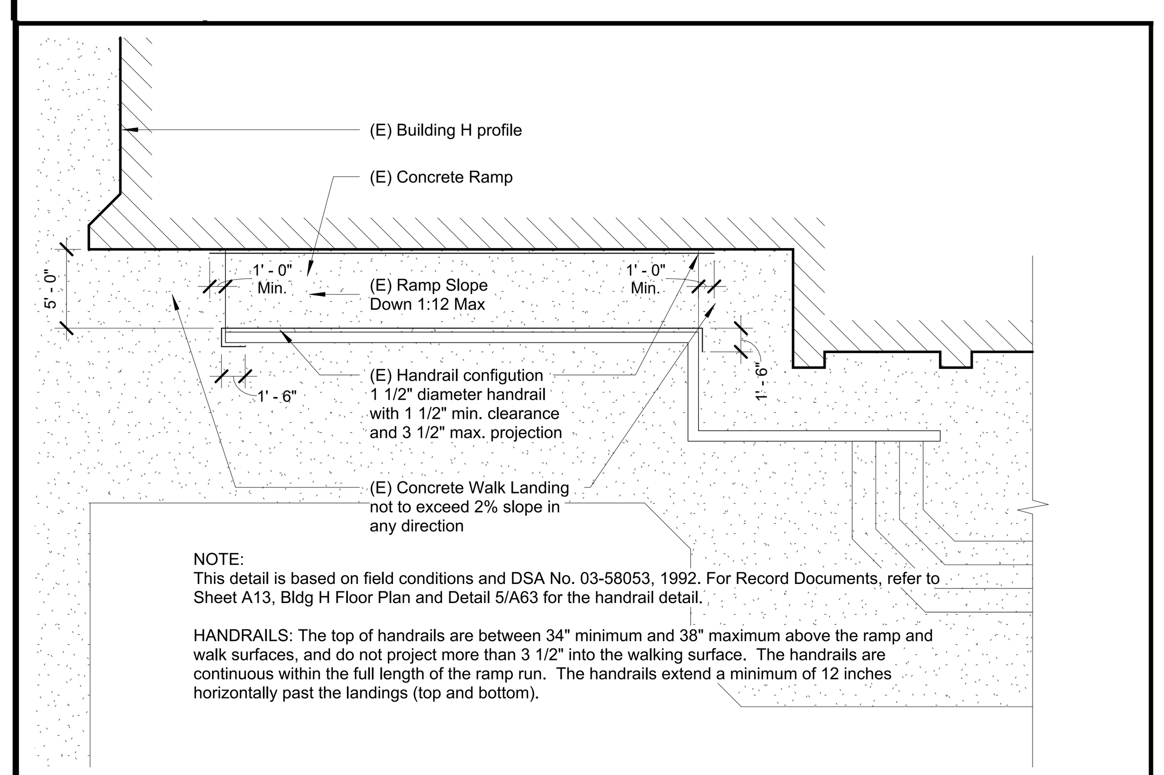
Flow Hydrant(s)

Outlet	Elev	Size	C	Pitot Pressure	Flow
#1	360	4	.9	38	2649 gpm

Flow Graph



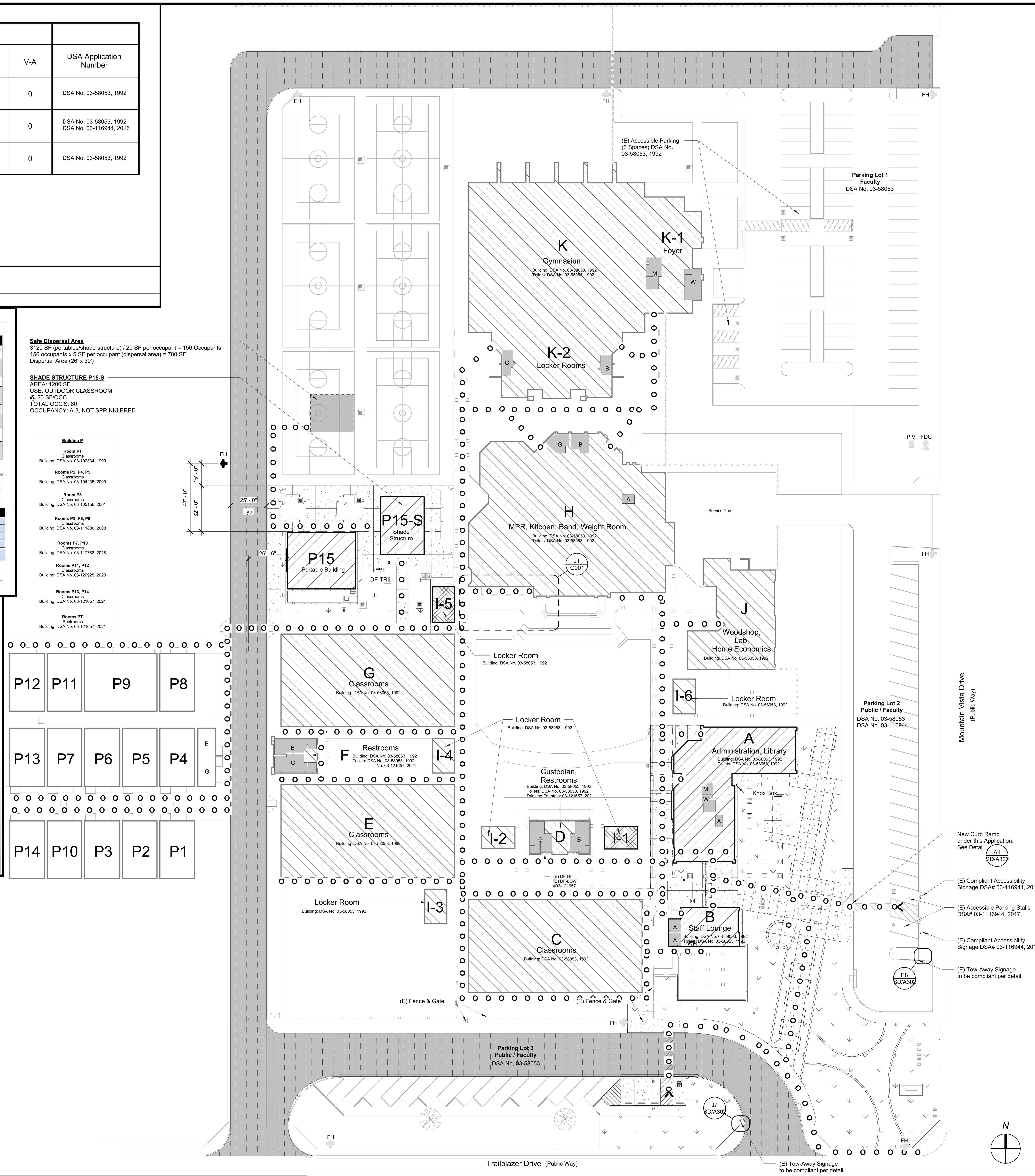
Created with the free hydrant flow test program from www.igneusinc.com



NOTE:
This detail is based on field conditions and DSA No. 03-58053, 1992. For Record Documents, refer to Sheet A13, Bldg H Floor Plan and Detail 5/A63 for the handrail detail.

HANDRAILS: The top of handrails are between 34" minimum and 38" maximum above the ramp and walk surfaces, and do not project more than 3 1/2" into the walking surface. The handrails are continuous within the full length of the ramp run. The handrails extend a minimum of 12 inches horizontally past the landings (top and bottom).

A1 BLDG H - STAGE RAMP DETAIL
1/8" = 1'-0"



A5 Regulatory Compliance Site Plan
1" = 30'-0"

DSA File No.: *15-95*

DSA Application No.: *03-122615*

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

Assumed Property Line
Accessible Path of Travel
(E) Fence Line
(E) Fire Truck Access Lane
FH CIVIL, New Fire Hydrant
FH (E) Fire Hydrant
FDC (E) Fire Department Connection (Siamese)
PIV (E) Post Indicator Valve

BUILDING OUTLINE
Accessible Restroom Location:
B = Boys
G = Girls
M = Men
W = Women
A = All-Gender

New Construction

Additive Alternate Bid No. 1
BLDG I-1 and I-5 Modernization

Base Bid: Exterior Painting,
Additive Alternate Bid No. 3 and No. 4
Fire Alarm and HVAC Replacement

ABBREVIATIONS

DF ACCESSIBLE DRINKING FOUNTAIN LOCATION
(-HA = High Adult)
(-LA = Low Adult)
(-TRI = High-Low and Water Bottle Filler)

(E) Existing

NOTES

1. **Path of Travel, Technical Requirements for Accessible Route**
Accessible Path of Travel as indicated on plan is a barrier-free access route without abrupt level changes exceeding 1/2" if beveled at 1:2 minimum slope or vertical level changes not exceeding 1/4" maximum and at least 48" in width. Surface is stable, firm, and slip-resistant. Cross-slope shall not be steeper than 1:48 and slope in the direction of travel shall not be steeper than 1:20. Accessible Path of Travel shall be maintained free of overhanging obstructions to 80" minimum and free of objects protruding more than 4" from the wall, above 27" and less than 80" above the floor. Architect shall verify that there are no barriers in the Path of Travel.

2. **Design Professional in General Responsible Charge Statement**
The Path of Travel identified in these Construction Documents meets the requirements of the current applicable California Building Code (CBC) accessibility provisions for Path of Travel requirements for alterations, additions and structural repairs. As part of the design of this project, the Path of Travel was examined and any elements, components or portions of the Path of Travel that were determined to be non-compliant with the CBC have been identified and the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specifications incorporated into these Construction Documents. Any noncompliant elements, components or portions of the Path of Travel that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are indicated in these Construction Documents.

During construction, if Path of Travel items within the scope of the project represented as CBC compliant are found to be nonconforming beyond reasonable construction tolerances, the items shall be brought into compliance with the CBC as a part of this project by means of a Construction Change Document.

3. Site Gates and Site Ramps in the "Path of Travel" are indicated on the REGULATORY COMPLIANCE SITE PLAN and FLOOR PLAN.

4. All new concrete surface within the "Path of Travel" shall have a non-slip medium broom finish as called for in Specification Section CAST-IN-PLACE CONCRETE. A heavy broom finish shall be used on all slopes greater than 6%.

F18 Regulatory Compliance Site Plan Legend

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

GENERAL INFORMATION
REGULATORY COMPLIANCE SITE PLAN
Drawing

darden architects — ARCHITECTURE PLANNING INTERIORS — www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright 2022 Darden Architects
Scale: As indicated	Drawn By: KX	G001
Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

5/26/2023 9:50:15 AM
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National Flood Hazard Layer FIRMette

FEMA

0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/9/2022 at 4:11 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

K1 | FIRMette Flood Zone Map

NO SCALE

BLDG NO.	OCCUPANCY CLASSIFICATION	OCCUPANCY GROUP	BUILDING AREA	CONSTRUCTION TYPE	FIRE SPRINKLER SYSTEM	BASIC ALLOWABLE AREA	ALLOWABLE AREA INCREASE	ACTUAL BUILDING & FIRE AREA SYSTEM	FIRE FLOW AND DURATION	DSA APPLICATION NUMBER	DSA APPROVAL DATES	APPLICABLE BUILDING CODE	REMARKS
A	Administration	B			Not Sprinklered					03-58053	1992	Title 24, C.C.R. Part 2, 1989 C.B.C. Part 3, 1989 C.E.C Part 4, 1989 C.M.C. Part 5, 1989 C.P.C.	Title 24, C.C.R. Building Code is applicable for all buildings under DSA Application Number 03-58053
	Library	E - 1											
	Building	Business, Educational	4,974 SF	Type V-N									
B	Staff Lounge	B			Not Sprinklered					03-58053	1992		
	Building	Educational	939 SF	Type V-N									
C	Classrooms	E - 1			Not Sprinklered					03-58053	1992		
	Building	Educational	7,680 SF	Type V-N									
D	Custodian	B			Not Sprinklered					03-58053	1992		
	Restrooms	E - 1											
	Building	Educational	942 SF	Type V-N									
E	Classrooms	E - 1			Not Sprinklered					03-58053	1992		
	Building	Educational	7,680 SF	Type V-1HR									
F	Restrooms	E - 1			Not Sprinklered					03-58053	1992		
	Building	Educational	720 SF	Type V-1HR									
G	Classrooms	E - 1			Not Sprinklered					03-58053	1992		
	Building	Educational	7,680 SF	Type V-1HR									
H	MPR, Stage	A - 3			Not Sprinklered					03-58053	1992		
	Kitchen	A - 2											
	Band	E - 1											
	Weight Room	E - 1											
	Building	Mixed, Educational	13,338 SF	Type V-1HR									
I-1	Lockers	E - 1		Type V-N	Not Sprinklered					03-58053	1992		ADDITIVE ALTERNATE BID NO. 1 includes work for Building I-1 and I-5.
I-2	Lockers	E - 1		Type V-N	Not Sprinklered								
I-3	Lockers	E - 1		Type V-1HR	Not Sprinklered								
I-4	Lockers	E - 1		Type V-1HR	Not Sprinklered								
I-5	Lockers	E - 1		Type V-1HR	Not Sprinklered								
I-6	Lockers	E - 1		Type V-1HR	Not Sprinklered								
	Building	Educational	2,160 SF		Not Sprinklered								
J	Woodshop, Lab	E - 1			Not Sprinklered					03-58053	1992		
	Home Economics	E - 1											
	Building	Educationa	4,924 SF	Type V-N									
K	Gymnasium	A - 3		Type II-1HR	Not Sprinklered					03-58053	1992		
K-1	Foyer	A - 3											
K-2	Locker Rooms	E - 1											
	Building	Assembly, Educational	18,946 SF	Type V-1HR									
P	Relocatables P1	E - 1								03-102334	1999	1995, Title 24 C.C.R.	
	Building	Educational	960 SF	Type V-N									
	Relocatables P2, P4, & P5	E - 1								03-104235	2000		
	Building	Educationa	2,880 SF	Type V-B									
	Relocatables P8	E - 1								03-105156	2001		
	Building	Educational	960 SF	Type V-B									
	Relocatables P3, P6, & P9	E - 1								03-111880	2008	2007, Title 24 C.C.R.	
	Building	Educational	3,840 SF	Type V-B									
	Relocatables P7 & P10	E - 1								03-117788	2018	2013	
	Building	Educational	1,920 SF	Type V-B									
	Relocatables P11 - P12	E - 1								03-120925	2020	2019	
	Building	Educational	1,920 SF	Type V-N									
	Relocatables P13 - P14	E - 1								03-121657	2021	2019	
	Building	Educational	1,920 SF	Type V-N									
	Relocatables P15	E - 1								03-122615	2022	2022	
	Building	Educational	1,920 SF	Type V-N	Not Sprinklered	9,500 SF							
	Shade Structure	Educational	1,200 SF	Type II-B	Not Sprinklered	26,500 SF							
	Total		3,120 SF										
Building Total:			86,303 SF										

DSA File No.: *15-95*

DSA Application No.: *03-122615*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

GENERAL INFORMATION
BUILDING DATA TABLE AND FIRMETTE MAP

Drawing

darden architects
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
LICENSED ARCHITECT MICHAEL K. FERRARI No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

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Scale: 12" = 1'-0"
Project Number: 2228
Date: 3/20/2022

G002

5/26/2023 9:50:17 AM
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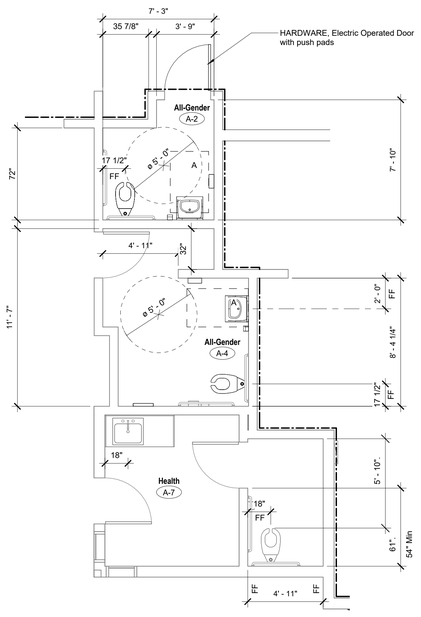

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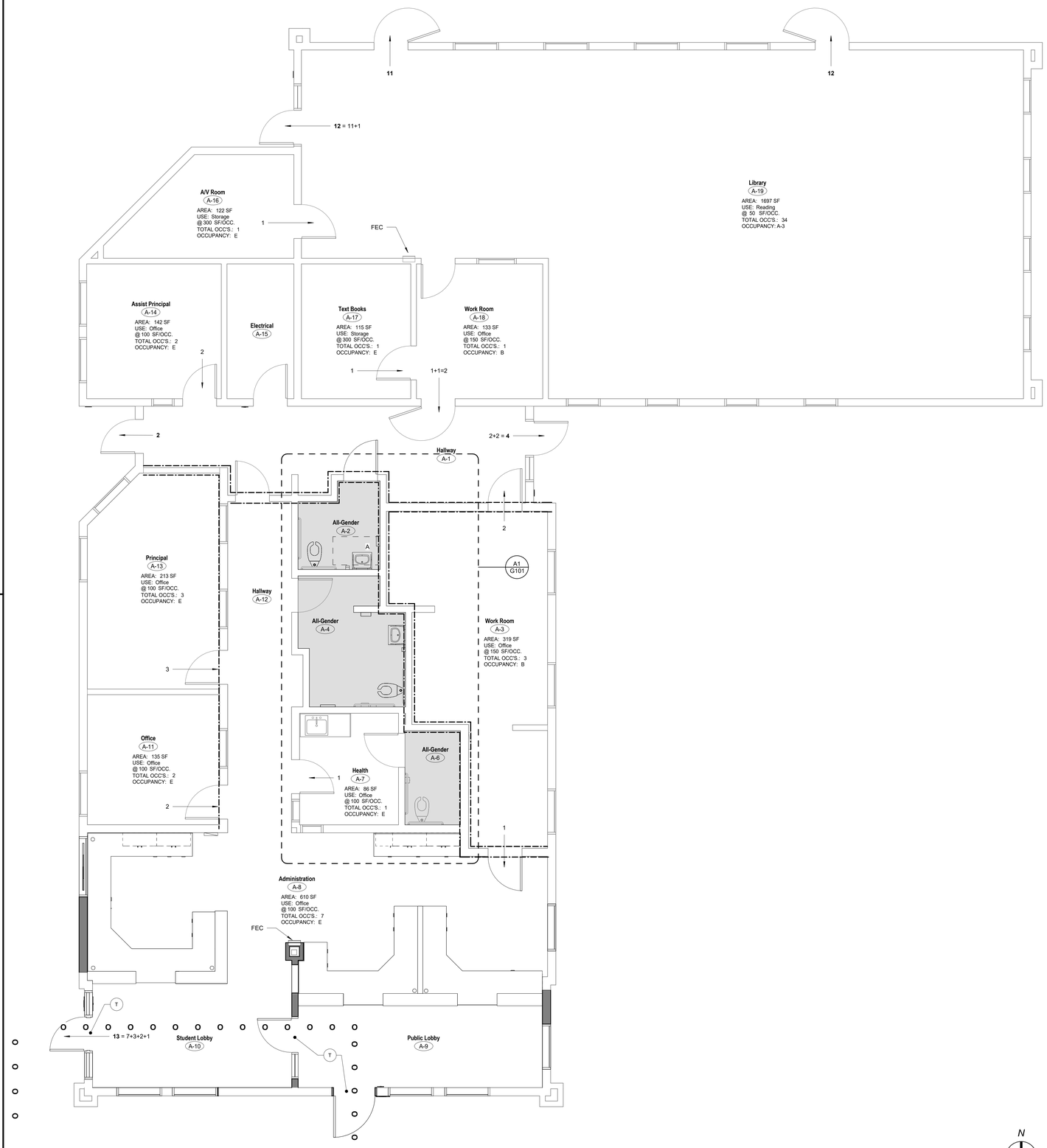
A1

Regulatory Compliance Floor Plan, Restrooms, Building A

1/4" = 1'-0"



N

A6

Regulatory Compliance Floor Plan, Building A

1/4" = 1'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

	1 Hr Corridor Wall		1 Hr Partition
	1 Hr Fire Barrier Occ Sep		1 Hr Fire Barrier
	2 Hr Fire Barrier		3 Hr Fire Barrier
	2 Hr. Fire Wall		3 Hr. Fire Wall

O O O O O — Indicates Path of Travel to Building Entrance

— Indicates Exit Occupant Loading

A — Indicates Required Accessible Clearance Space

T — Indicates Accessible Threshold. See Detail E1 X/A401

B G — Accessible Restroom Location:
B = Boys
G = Girls
M = Men
W = Women
U = Unisex

ABBREVIATIONS

DF — ACCESSIBLE DRINKING FOUNTAIN LOCATION
(-HA = High Adult)
(-LA = Low Adult)

FEC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet. Provide Fire Rated Cabinet at Rated Walls.

FEBC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher, Blanket and Cabinet, Provide Fire Rated Cabinet at Rated Walls.

NOTES

1) Scope of work includes ALTERNATE BIDS:

ADDITIVE ALTERNATE BID NO. 1:
Building I-1 and I-5 Improvements

ADDITIVE ALTERNATE BID NO. 2:
School Sign

ADDITIVE ALTERNATE BID NO. 3:
HVAC Units replacement and electrical connections:
Provide all Mechanical work at Buildings C, E, G, H, and J.
Provide all Electrical work at Buildings C, E, G, H, and J.
The Mechanical and Electrical work at Buildings A and B are Base Bid.

ADDITIVE ALTERNATE BID NO. 4:
Electrical Fire Alarm Upgrades:
Provide all Fire Alarm work at Buildings C, E, F, G, J, and K.
The Electrical Fire Alarm work at Buildings A and B are Base Bid.

CONSTRUCTION PROJECTS AND ITEMS EXEMPT FROM DSA REVIEW

1) Restrooms located in Buildings D, F, H, and K were originally constructed under DSA application 58053 (1992)

2) Due to the DSA exemptions, no work is occurring in this restroom.

3) DSA IR A-22 exemptions include these items
Exemption 15. Replacement in-kind of mechanical units.
Exemption 17. Painting of the building exterior.
Exemption 33. Replacement of Fire Alarm system

H18

Regulatory Compliance Floor Plan Legend

No Scale

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

GENERAL INFORMATION
REGULATORY COMPLIANCE FLOOR PLAN - BLDG A

Drawing

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LICENSED ARCHITECT REGISTERED K. F. KAPOOR No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: KX
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

G101

5/26/2023 9:50:18 AM
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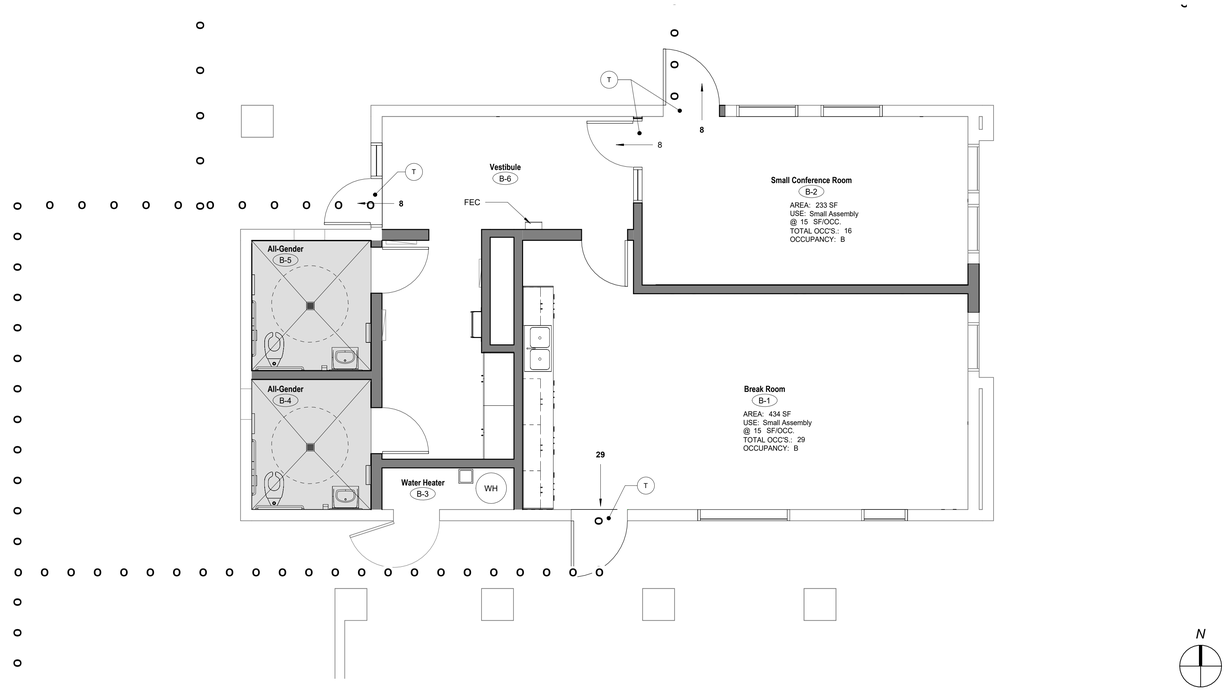

J7

1/4" = 1'-0"

Regulatory Compliance Floor Plan, Building B

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

	1 Hr Corridor Wall		1 Hr Partition
	1 Hr Fire Barrier Occ Sep		1 Hr Fire Barrier
	2 Hr Fire Barrier		3 Hr Fire Barrier
	2 Hr. Fire Wall		3 Hr. Fire Wall

Indicates Path of Travel to Building Entrance

Indicates Exit Occupant Loading

Indicates Required Accessible Clearance Space

Indicates Accessible Threshold. See Detail E1 X/A401

Accessible Restroom Location:
B = Boys
G = Girls
M = Men
W = Women
U = Unisex

ABBREVIATIONS

DF ACCESSIBLE DRINKING FOUNTAIN LOCATION
(-HA = High Adult)
(-LA = Low Adult)

FEC FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet.
Provide Fire Rated Cabinet at Rated Walls.

FEBC FIRE PROTECTION SPECIALTIES, Fire Extinguisher, Blanket and Cabinet,
Provide Fire Rated Cabinet at Rated Walls.

NOTES

1) Scope of work includes ALTERNATE BIDS:

ADDITIVE ALTERNATE BID NO. 1:
Building I-1 and I-5 Improvements

ADDITIVE ALTERNATE BID NO. 2:
School Sign

ADDITIVE ALTERNATE BID NO. 3:
HVAC Units replacement and electrical connections:
Provide all Mechanical work at Buildings C, E, G, H, and J.
Provide all Electrical work at Buildings C, E, G, H, and J.
The Mechanical and Electrical work at Buildings A and B are Base Bid.

ADDITIVE ALTERNATE BID NO. 4:
Electrical Fire Alarm Upgrades:
Provide all Fire Alarm work at Buildings C, E, F, G, J, and K.
The Electrical Fire Alarm work at Buildings A and B are Base Bid.

CONSTRUCTION PROJECTS AND ITEMS EXEMPT FROM DSA REVIEW

1) Restrooms located in Buildings D, F, H, and K were originally constructed under DSA application 58053 (1992)

2) Due to the DSA exemptions, no work is occurring in this restroom.

3) DSA IR A-22 exemptions include these items
Exemption 15. Replacement in-kind of mechanical units.
Exemption 17. Painting of the building exterior.
Exemption 33. Replacement of Fire Alarm system

H18

No Scale

Regulatory Compliance Floor Plan Legend

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

GENERAL INFORMATION
REGULATORY COMPLIANCE FLOOR PLAN - BLDG B

Drawing

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LICENSED ARCHITECT
MICHAEL K. FERGUSON
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: CC	G102
Project Number:	2228	Checked By: KX	
Date:	3/20/2022	Reviewed By: MF	

5/26/2023 9:50:19 AM
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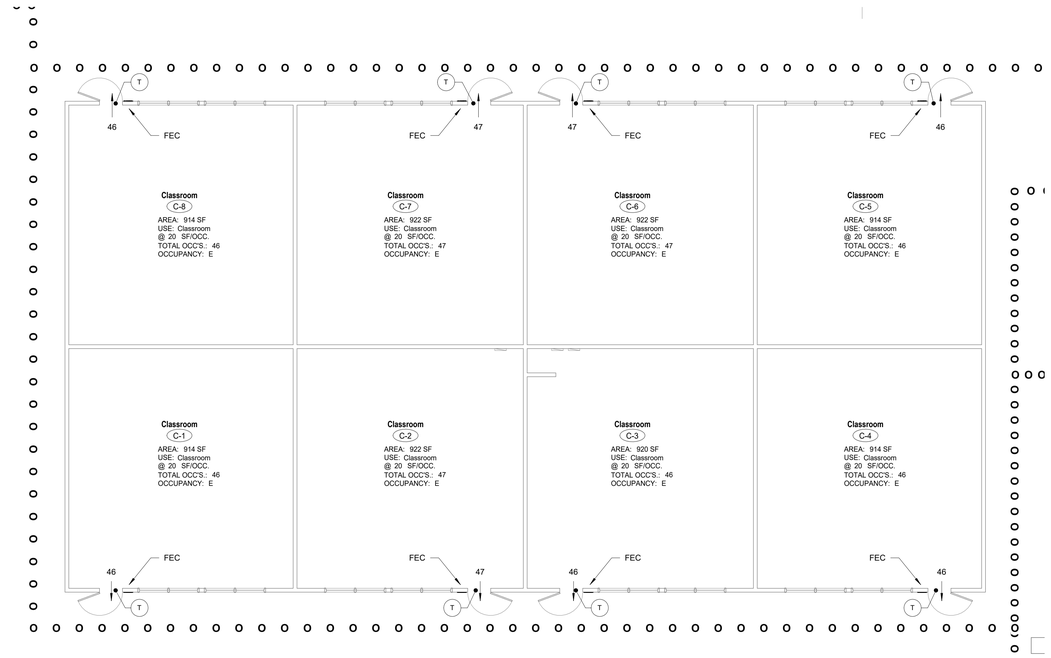


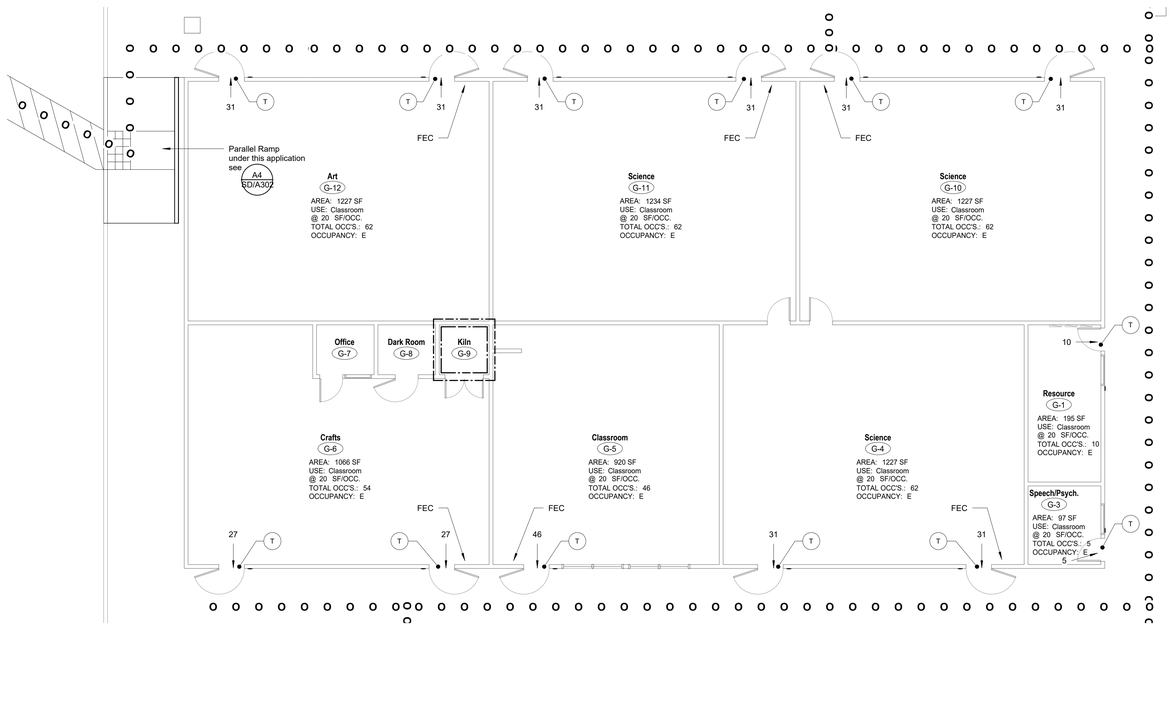
NOTE:

1. Building E is a duplicate of Building C.

2. Refer to Note 4.

J7
1/8" = 1'-0"

Building C
Regulatory Compliance Floor Plan



A7
1/8" = 1'-0"

Building G
Regulatory Compliance Floor Plan

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023
Agency Approval

SYMBOLS

- 1 Hr Corridor Wall
- 1 Hr Partition
- 1 Hr Fire Barrier Occ Sep
- 1 Hr Fire Barrier
- 2 Hr Fire Barrier
- 3 Hr Fire Barrier
- 2 Hr. Fire Wall
- 3 Hr. Fire Wall
- Indicates Path of Travel to Building Entrance
- # — Indicates Exit Occupant Loading
- A — Indicates Required Accessible Clearance Space
- T — Indicates Accessible Threshold. See Detail E1 X/A401
- B G — Accessible Restroom Location:
  - B = Boys
  - G = Girls
  - M = Men
  - W = Women
  - U = Unisex

ABBREVIATIONS

DF	ACCESSIBLE DRINKING FOUNTAIN LOCATION (-HA = High Adult) (-LA = Low Adult)
FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet. Provide Fire Rated Cabinet at Rated Walls.
FEBC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher, Blanket and Cabinet, Provide Fire Rated Cabinet at Rated Walls.

NOTES

1) Scope of work includes ALTERNATE BIDS:

ADDITIVE ALTERNATE BID NO. 1:
Building I-1 and I-5 Improvements

ADDITIVE ALTERNATE BID NO. 2:
School Sign

ADDITIVE ALTERNATE BID NO. 3:
HVAC Units replacement and electrical connections:
Provide all Mechanical work at Buildings C, E, G, H, and J.
Provide all Electrical work at Buildings C, E, G, H, and J.
The Mechanical and Electrical work at Buildings A and B are Base Bid.

ADDITIVE ALTERNATE BID NO. 4:
Electrical Fire Alarm Upgrades:
Provide all Fire Alarm work at Buildings C, E, F, G, J, and K.
The Electrical Fire Alarm work at Buildings A and B are Base Bid.

CONSTRUCTION PROJECTS AND ITEMS EXEMPT FROM DSA REVIEW

1) Restrooms located in Buildings D, F, H, and K were originally constructed under DSA application 58053 (1992)

2) Due to the DSA exemptions, no work is occurring in this restroom.

3) DSA IR A-22 exemptions include these items
Exemption 15. Replacement in-kind of mechanical units.
Exemption 17. Painting of the building exterior.
Exemption 33. Replacement of Fire Alarm system

H18
No Scale

Regulatory Compliance Floor Plan Legend

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

GENERAL INFORMATION
REGULATORY COMPLIANCE FLOOR PLAN - BLDG C, E & G
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LICENSED ARCHITECT MICHAEL K. FENBOCK No. C23724 Exp. 4-30-23 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2022 Darden Architects
Scale:	1/8" = 1'-0"	Drawn By: KX	G103
Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

5/26/2023 9:50:20 AM
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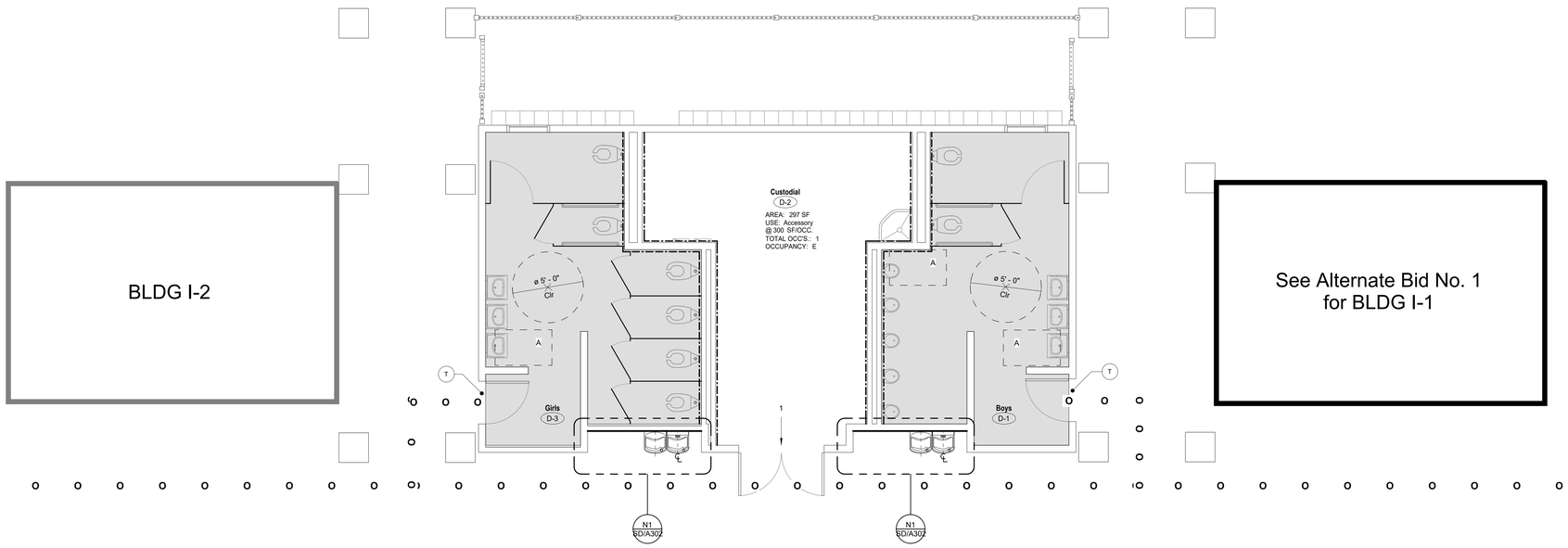
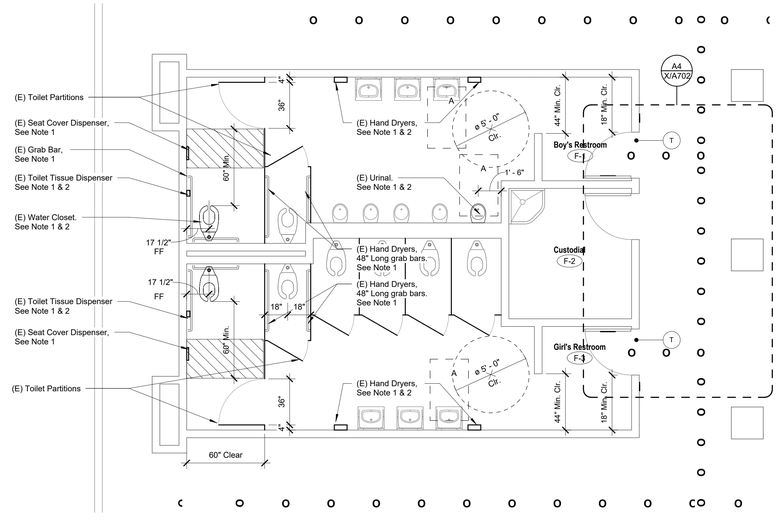


J1

1/4" = 1'-0"

Regulatory Compliance Floor Plan,
Building D



ACCESS COMPLIANCE NOTES

1) Toilet Room Accessories comply with Detail A11/X/A601

2) DSA Application No. 03-121657 (2021) is pending certification. See Detail B14/G000

3) Per CBC 11B-606.5, protective wrap is installed at all accessible water and drain pipes underneath lavatories.

A11

1/4" = 1'-0"

Regulatory Compliance Floor Plan,
Building F

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

- 1 Hr Corridor Wall
- 1 Hr Partition
- 1 Hr Fire Barrier Occ Sep
- 1 Hr Fire Barrier
- 2 Hr Fire Barrier
- 3 Hr Fire Barrier
- 2 Hr. Fire Wall
- 3 Hr. Fire Wall
- Indicates Path of Travel to Building Entrance
- Indicates Exit Occupant Loading
- Indicates Required Accessible Clearance Space
- Indicates Accessible Threshold. See Detail E1/X/A401

Accessible Restroom Location:
B = Boys
G = Girls
M = Men
W = Women
U = Unisex

ABBREVIATIONS

DF — ACCESSIBLE DRINKING FOUNTAIN LOCATION
(-HA = High Adult)
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FEBC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher, Blanket and Cabinet, Provide Fire Rated Cabinet at Rated Walls.

NOTES

1) Scope of work includes ALTERNATE BIDS:

ADDITIVE ALTERNATE BID NO. 1:
Building I-1 and I-5 Improvements

ADDITIVE ALTERNATE BID NO. 2:
School Sign

ADDITIVE ALTERNATE BID NO. 3:
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Provide all Mechanical work at Buildings C, E, G, H, and J.
Provide all Electrical work at Buildings C, E, G, H, and J.
The Mechanical and Electrical work at Buildings A and B are Base Bid.

ADDITIVE ALTERNATE BID NO. 4:
Electrical Fire Alarm Upgrades:
Provide all Fire Alarm work at Buildings C, E, F, G, J, and K.
The Electrical Fire Alarm work at Buildings A and B are Base Bid.

CONSTRUCTION PROJECTS AND ITEMS EXEMPT FROM DSA REVIEW

1) Restrooms located in Buildings D, F, H, and K were originally constructed under DSA application 58053 (1992)

2) Due to the DSA exemptions, no work is occurring in this restroom.

3) DSA IR A-22 exemptions include these items
Exemption 15. Replacement in-kind of mechanical units.
Exemption 17. Painting of the building exterior.
Exemption 33. Replacement of Fire Alarm system

H18

No Scale

Regulatory Compliance Floor Plan Legend

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

GENERAL INFORMATION
REGULATORY COMPLIANCE FLOOR PLAN - BLDG D AND F

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LICENSED ARCHITECT
MICHAEL K. FERGUSON
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF

Drawn By: CC

Checked By: KX

Reviewed By: MF

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Scale: As indicated

Project Number: 2228

Date: 3/20/2022

G104

5/26/2023 9:50:23 AM
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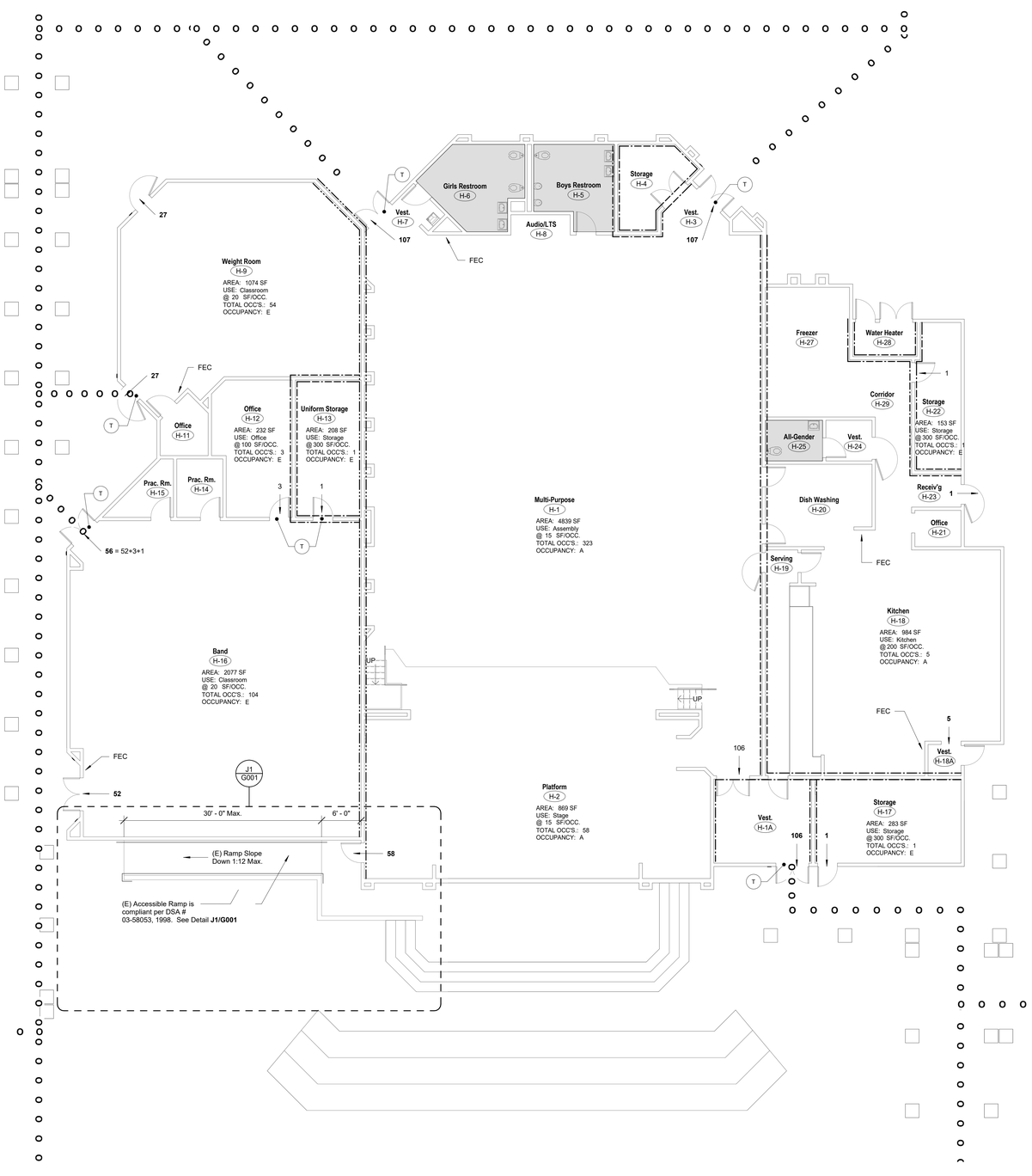

A4	Regulatory Compliance Floor Plan, Building H
1/8" = 1'-0"	

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
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DATE: 07/20/2023
Agency Approval

SYMBOLS

- 1 Hr Corridor Wall
- 1 Hr Partition
- 1 Hr Fire Barrier Occ Sep
- 1 Hr Fire Barrier
- 2 Hr Fire Barrier
- 3 Hr Fire Barrier
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- 3 Hr. Fire Wall
- Indicates Path of Travel to Building Entrance
- Indicates Exit Occupant Loading
- Indicates Required Accessible Clearance Space
- Indicates Accessible Threshold. See Detail E1 X/A401
- Accessible Restroom Location:
  B = Boys
  G = Girls
  M = Men
  W = Women
  U = Unisex

ABBREVIATIONS

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FEBC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher, Blanket and Cabinet, Provide Fire Rated Cabinet at Rated Walls.

NOTES

1) Scope of work includes ALTERNATE BIDS:

ADDITIVE ALTERNATE BID NO. 1:
Building I-1 and I-5 Improvements

ADDITIVE ALTERNATE BID NO. 2:
School Sign

ADDITIVE ALTERNATE BID NO. 3:
HVAC Units replacement and electrical connections:
Provide all Mechanical work at Buildings C, E, G, H, and J.
Provide all Electrical work at Buildings C, E, G, H, and J.
The Mechanical and Electrical work at Buildings A and B are Base Bid.

ADDITIVE ALTERNATE BID NO. 4:
Electrical Fire Alarm Upgrades:
Provide all Fire Alarm work at Buildings C, E, F, G, J, and K.
The Electrical Fire Alarm work at Buildings A and B are Base Bid.

CONSTRUCTION PROJECTS AND ITEMS EXEMPT FROM DSA REVIEW

1) Restrooms located in Buildings D, F, H, and K were originally constructed under DSA application 58053 (1992)

2) Due to the DSA exemptions, no work is occurring in this restroom.

3) DSA IR A-22 exemptions include these items
Exemption 15. Replacement in-kind of mechanical units.
Exemption 17. Painting of the building exterior.
Exemption 33. Replacement of Fire Alarm system

H18	Regulatory Compliance Floor Plan Legend
No Scale	

Earl Warren Junior High School
Modernization Phase I

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No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2022 Darden Architects
Scale:	1/8" = 1'-0"	Drawn By: KX	G105
Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

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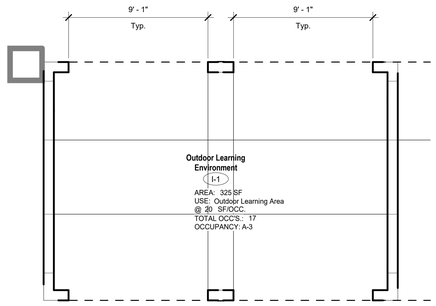
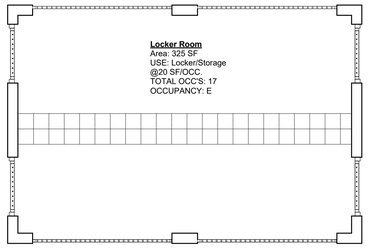


N11 | Regulatory Compliance Floor Plan, Building I-1

1/4" = 1'-0"

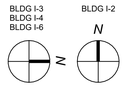


NOTE:

1) Buildings I-2, I-3, I-4, and I-6 are all duplicates.

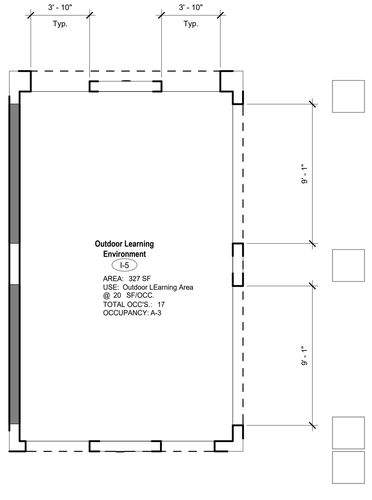
2) These buildings are not part of Alternate Bid No. 1.

3) These buildings are currently not in use and remain locked at all times.



J11 | Regulatory Compliance Floor Plan, Buildings I-2, I-3, I-4 & I-6

1/4" = 1'-0"



A11 | Regulatory Compliance Floor Plan, Building I-5

1/4" = 1'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

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SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

	1 Hr Corridor Wall		1 Hr Partition
	1 Hr Fire Barrier Occ Sep		1 Hr Fire Barrier
	2 Hr Fire Barrier		3 Hr Fire Barrier
	2 Hr. Fire Wall		3 Hr. Fire Wall

O O O O O — Indicates Path of Travel to Building Entrance

— Indicates Exit Occupant Loading

A — Indicates Required Accessible Clearance Space

T — Indicates Accessible Threshold. See Detail E1 X/A401

B G — Accessible Restroom Location:
B = Boys
G = Girls
M = Men
W = Women
U = Unisex

ABBREVIATIONS

DF — ACCESSIBLE DRINKING FOUNTAIN LOCATION
(-HA = High Adult)
(-LA = Low Adult)

FEC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet. Provide Fire Rated Cabinet at Rated Walls.

FEBC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher, Blanket and Cabinet, Provide Fire Rated Cabinet at Rated Walls.

NOTES

1) Scope of work includes ALTERNATE BIDS:

ADDITIVE ALTERNATE BID NO. 1:
Building I-1 and I-5 Improvements

ADDITIVE ALTERNATE BID NO. 2:
School Sign

ADDITIVE ALTERNATE BID NO. 3:
HVAC Units replacement and electrical connections:
Provide all Mechanical work at Buildings C, E, G, H, and J.
Provide all Electrical work at Buildings C, E, G, H, and J.
The Mechanical and Electrical work at Buildings A and B are Base Bid.

ADDITIVE ALTERNATE BID NO. 4:
Electrical Fire Alarm Upgrades:
Provide all Fire Alarm work at Buildings C, E, F, G, J, and K.
The Electrical Fire Alarm work at Buildings A and B are Base Bid.

CONSTRUCTION PROJECTS AND ITEMS EXEMPT FROM DSA REVIEW

1) Restrooms located in Buildings D, F, H, and K were originally constructed under DSA application 58053 (1992)

2) Due to the DSA exemptions, no work is occurring in this restroom.

3) DSA IR A-22 exemptions include these items
Exemption 15. Replacement in-kind of mechanical units.
Exemption 17. Painting of the building exterior.
Exemption 33. Replacement of Fire Alarm system

H18 | Regulatory Compliance Floor Plan Legend

No Scale

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

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LICENSED ARCHITECT
REGISTERED PROFESSIONAL
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: KX
Drawn By: KX
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

G106

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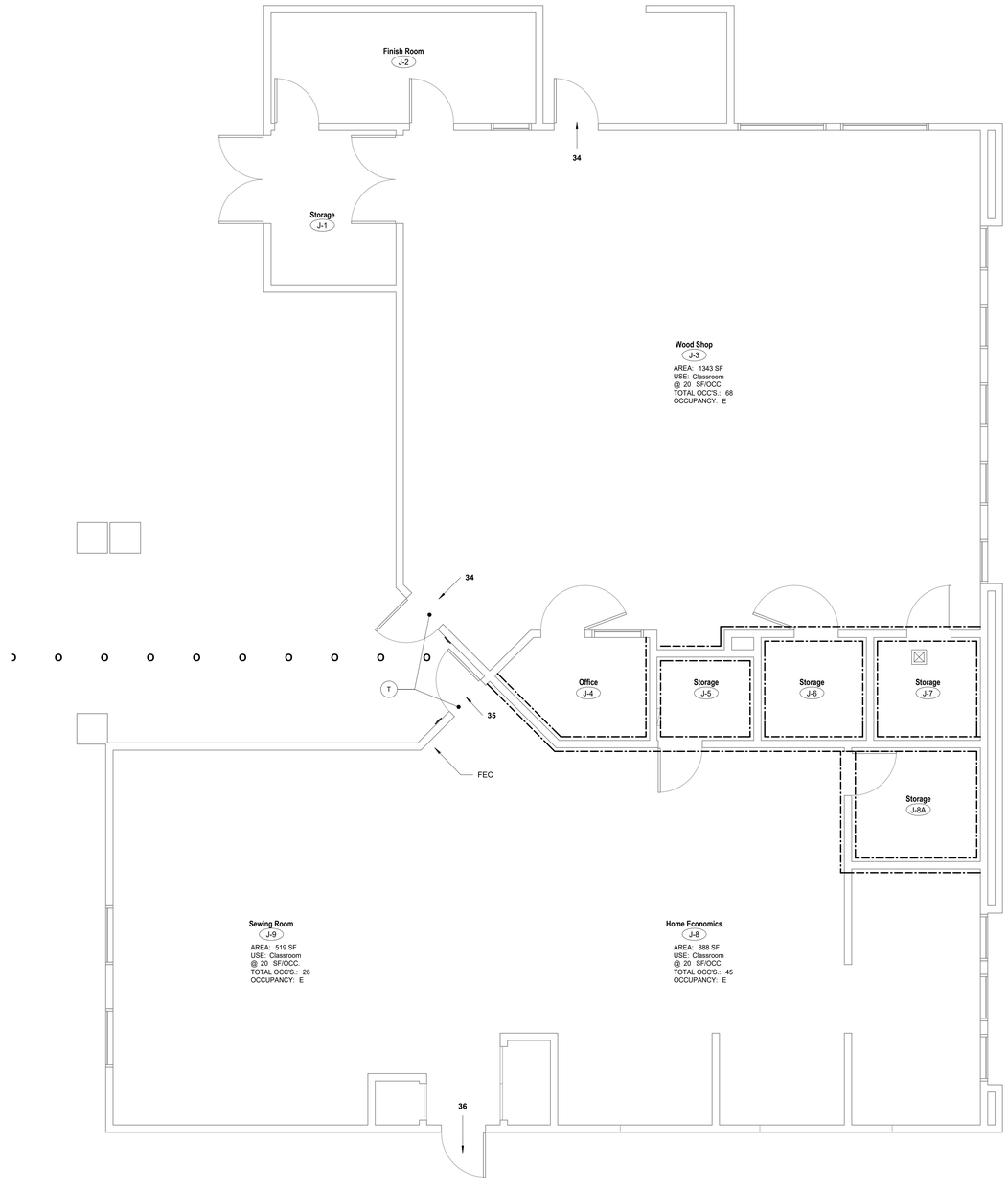

A7

1/4" = 1'-0"

Regulatory Compliance Floor Plan,
Building J

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

	1 Hr Corridor Wall		1 Hr Partition
	1 Hr Fire Barrier Occ Sep		1 Hr Fire Barrier
	2 Hr Fire Barrier		3 Hr Fire Barrier
	2 Hr. Fire Wall		3 Hr. Fire Wall

O O O O O — Indicates Path of Travel to Building Entrance

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A — Indicates Required Accessible Clearance Space

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B G

Accessible Restroom Location:
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Exemption 15. Replacement in-kind of mechanical units.
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H18 — Regulatory Compliance Floor Plan Legend

No Scale

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

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LICENSED ARCHITECT
MICHAEL K. FENBOCK
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

G107

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DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
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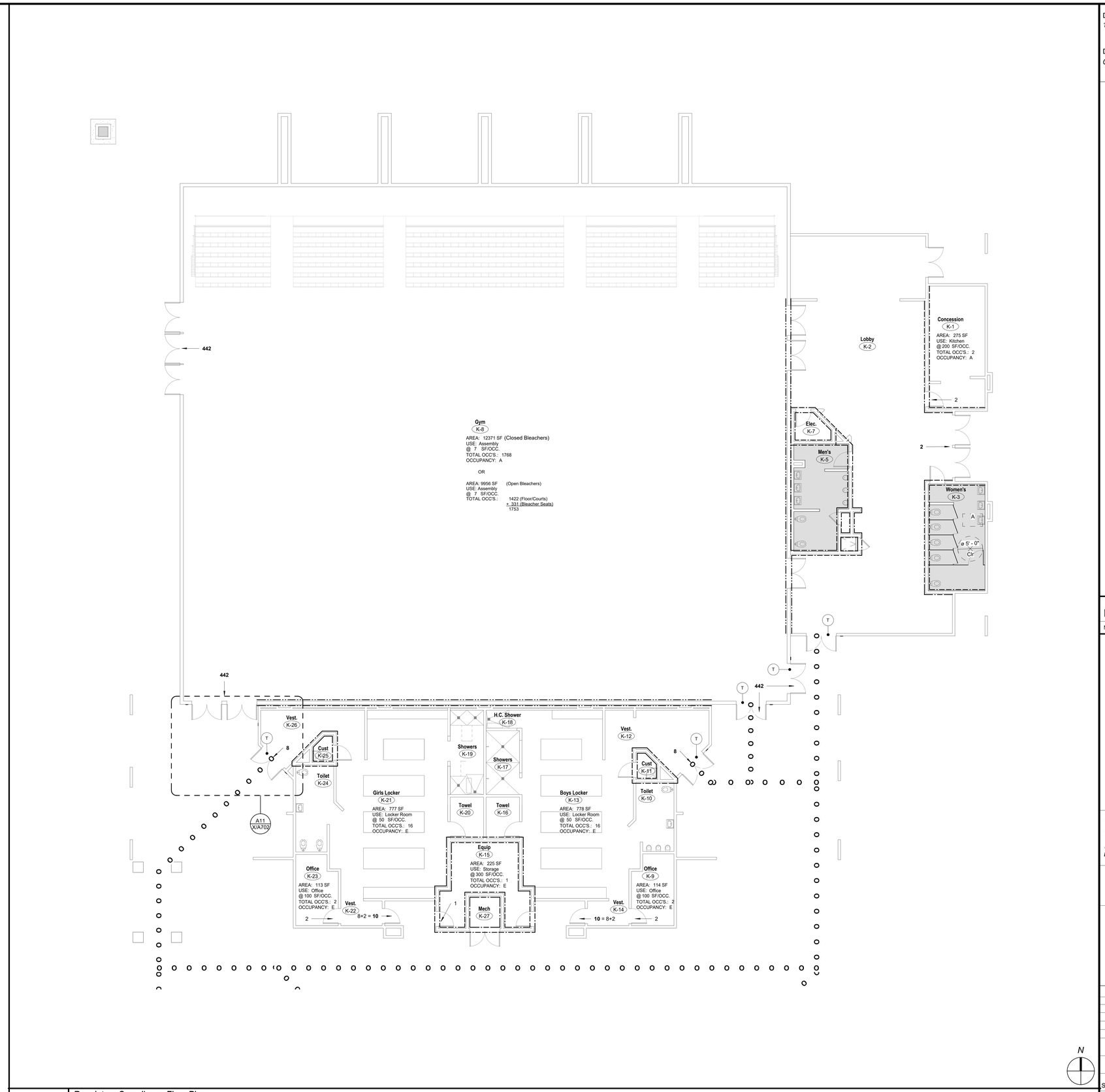
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval



SYMBOLS

	1 Hr Corridor Wall		1 Hr Partition
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	2 Hr. Fire Wall		3 Hr. Fire Wall

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Exemption 15. Replacement in-kind of mechanical units.
Exemption 17. Painting of the building exterior.
Exemption 33. Replacement of Fire Alarm system

H18 — Regulatory Compliance Floor Plan Legend
No Scale

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

GENERAL INFORMATION
REGULATORY COMPLIANCE FLOOR PLAN - BLDG K

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LICENSED ARCHITECT MICHAEL K. FIDLER No. C23724 Exp. 4-30-24 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: KX
Reviewed By: MF

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Scale: 1/8" = 1'-0"
Project Number: 2228
Date: 3/20/2022

G108

A4 — Regulatory Compliance Floor Plan, Building K
1/8" = 1'-0"

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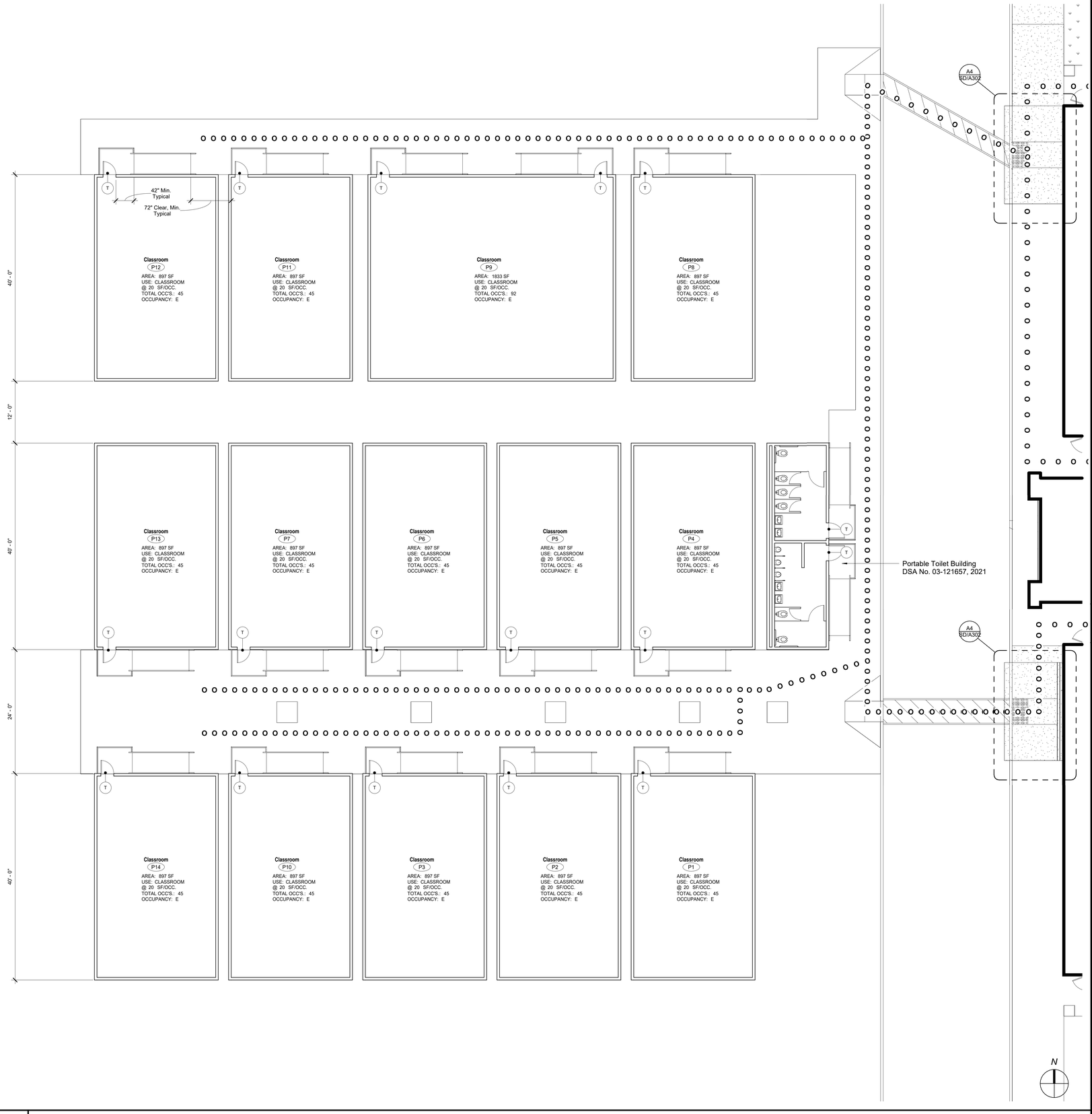

A1
1/8" = 1'-0"

Regulatory Compliance Floor Plan, Building P

DSA File No.: *15-95*

DSA Application No.: *03-122615*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

- 1 Hr Corridor Wall
- 1 Hr Partition
- 1 Hr Fire Barrier Occ Sep
- 1 Hr Fire Barrier
- 2 Hr Fire Barrier
- 3 Hr Fire Barrier
- 2 Hr. Fire Wall
- 3 Hr. Fire Wall
- Indicates Path of Travel to Building Entrance
- Indicates Exit Occupant Loading
- Indicates Required Accessible Clearance Space
- Indicates Accessible Threshold. See Detail E1 X/A401
- Accessible Restroom Location:
  - B = Boys
  - G = Girls
  - M = Men
  - W = Women
  - U = Unisex

ABBREVIATIONS

DF ACCESSIBLE DRINKING FOUNTAIN LOCATION
(-HA = High Adult)
(-LA = Low Adult)

FEC FIRE PROTECTION SPECIALTIES, Fire Extinguisher and Cabinet.
Provide Fire Rated Cabinet at Rated Walls.

FEBC FIRE PROTECTION SPECIALTIES, Fire Extinguisher, Blanket and Cabinet,
Provide Fire Rated Cabinet at Rated Walls.

NOTES

1) Scope of work includes ALTERNATE BIDS:

ADDITIVE ALTERNATE BID NO. 1:
Building I-1 and I-5 Improvements

ADDITIVE ALTERNATE BID NO. 2:
School Sign

ADDITIVE ALTERNATE BID NO. 3:
HVAC Units replacement and electrical connections:
Provide all Mechanical work at Buildings C, E, G, H, and J.
Provide all Electrical work at Buildings C, E, G, H, and J.
The Mechanical and Electrical work at Buildings A and B are Base Bid.

ADDITIVE ALTERNATE BID NO. 4:
Electrical Fire Alarm Upgrades:
Provide all Fire Alarm work at Buildings C, E, F, G, J, and K.
The Electrical Fire Alarm work at Buildings A and B are Base Bid.

CONSTRUCTION PROJECTS AND ITEMS EXEMPT FROM DSA REVIEW

1) Restrooms located in Buildings D, F, H, and K were originally constructed under DSA application 58053 (1992)

2) Due to the DSA exemptions, no work is occurring in this restroom.

3) DSA IR A-22 exemptions include these items
Exemption 15. Replacement in-kind of mechanical units.
Exemption 17. Painting of the building exterior.
Exemption 33. Replacement of Fire Alarm system

H18
No Scale

Regulatory Compliance Floor Plan Legend

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

GENERAL INFORMATION
REGULATORY COMPLIANCE FLOOR PLAN - BLDG P

Drawing

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LICENSED ARCHITECT MICHAEL K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

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Scale: 1/8" = 1'-0"
Project Number: 2228
Date: 3/20/2022

G109

5/26/2023 9:50:36 AM
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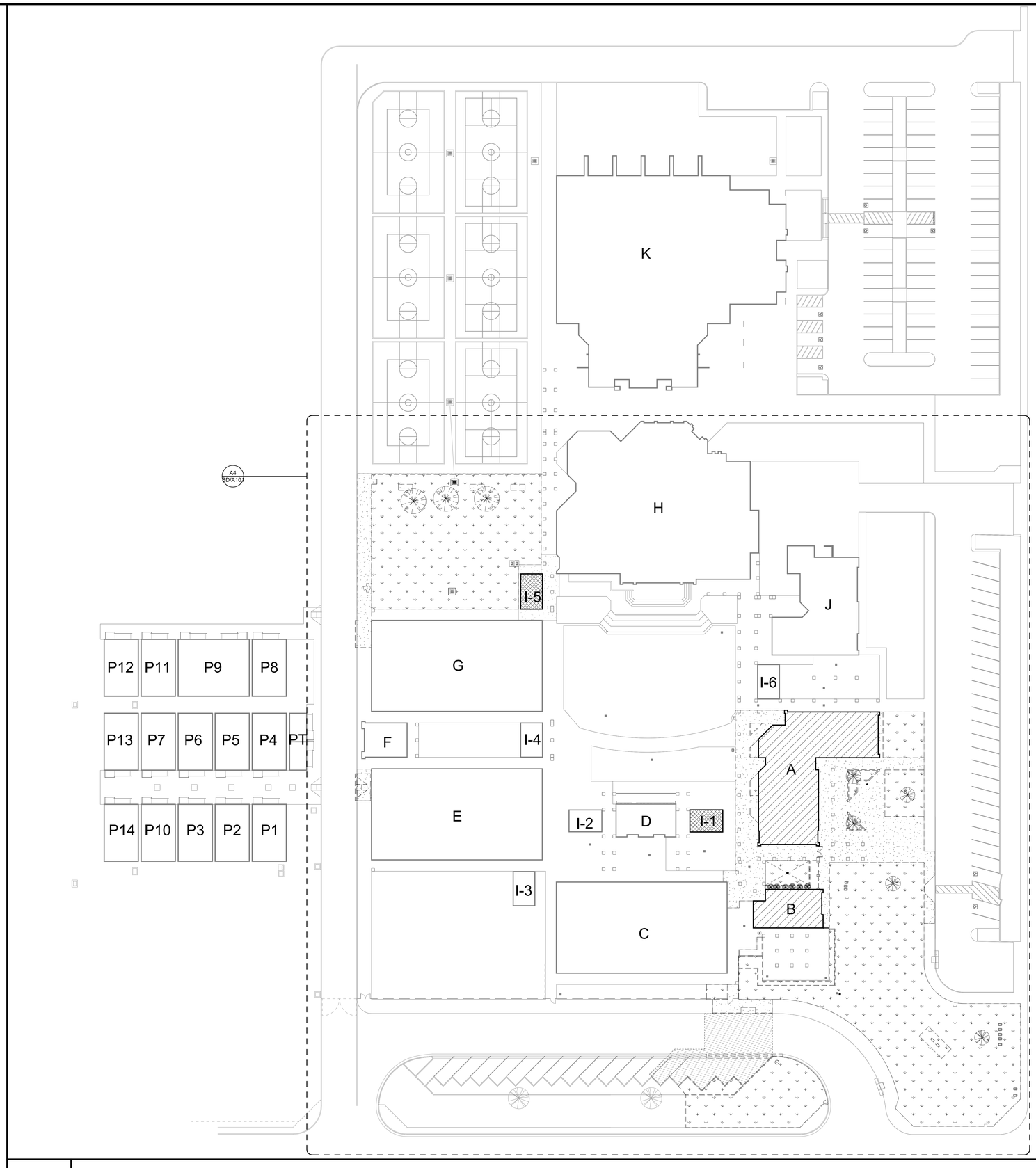

DSA File No.:
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Agency Approval

SYMBOLS

Existing Building. Scope of Work only includes Exterior Painting, Fire Alarm and HVAC Replacement.

New Construction

Additive Alternate Bid No. 01
Building I-1 and I-5 Modernization

K — Building Designation

GENERAL NOTES

FIRE CODE
The selective demolition shall follow the California Fire Code, Chapter 14 - Fire Safety During Construction and Demolition.

TOPOGRAPHIC SURVEY
Refer to Topographic Survey for additional information, which the districfs survey engineer prepared. The topographic survey locates specific physical features of the Site, and it is not a complete topographic survey of the site. The information indicated reflects the data obtained by the field survey. When utility information is indicated on the topographic survey, it is a combination of information obtained from the record documents, observation of visible evidence by field survey crews, and any data learned from the underground location service provider. The district's survey engineer makes no guarantee as to the accuracy or completeness of the underground utility facilities.

The on-site underground utilities indicated are at approximate locations. The actual extents, locations, and sizes are unknown and based only on previous record documents.

SELECTIVE DEMOLITION COORDINATION
Remove existing site improvements to construct the new site improvements indicated unless noted otherwise. The demolition indicated is approximate and represents the minimum removal requirements. The Contractor shall coordinate the limits to fit the new work with the existing conditions. Before proceeding to lay out the work, verify layout information shown on the drawings in relation to the property survey, topographic survey, and existing benchmarks.

The Contractor shall protect all existing utility improvements not designated for removal.

Refer to all plans in these documents and verify the extent of the selective demolition required by all plans in preparing for the new site development work indicated in these plans.

REMOVAL OF SURFACE IMPROVEMENTS
Remove existing improvements as necessary to construct new improvements shown on these plans.

For concrete removal, remove to the nearest Expansion Joint or Control Joint. Saw cutting is only allowed at the control joint locations. Do not over-cut the saw cuts.

UNDERGROUND EXCAVATIONS
Before any site excavations, the Contractor shall contact the Owner and the underground service alert (USA) and request that they identify the location of all underground utilities at the site. USA service alert is for any public utility service up to the meter location.

Before removal, demolition, and installing new work, the Contractor shall identify, using potholing and/or trench slotting (hydro-evacuation), the locations and portions of the site to locate and verify the locations of the underground utility lines.

UTILITY LOCATIONS AND REPAIRS
The removal of existing site improvements shall be coordinated with all plans. When required, the Contractor shall also coordinate the removal of the site improvements with Utility Agencies.

Before beginning site work, investigate and verify the existence, location, and elevation of all underground utilities and other construction affecting the Work. The existence and location of underground utilities indicated as existing are not guaranteed. Determine the location and invert elevation at points of connection of sanitary sewer and storm drainage systems. Accurately document vertical and horizontal measurements, and elevations uncovered or verified.

The Contractor shall pay for all damaged utility repairs that become damaged during construction. The utility repair shall be completely restored to the satisfaction of the Design Team, the Owner, and the Agency having authority.

IRRIGATION REMOVAL AND REPAIRS
Remove existing irrigation lines, heads, and valves as required for new construction. The Contractor is responsible for field verification of the existing irrigation system within the new construction area and for providing all required to amend and adjust the sprinkler system due to new improvements to provide a complete and operational system. Provide new sprinkler heads as required, same as removed. The irrigation system shall remain in operation during construction. Adjust existing sprinkler heads and lateral lines as required by new improvements or as shown on the irrigation plans.

F18 — Overall Demolition Site Plan Legend
No Scale

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
OVERALL SITE DEMOLITION PLAN

Drawing

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LICENSED ARCHITECT
MICHAEL K. FORNUTO
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

SD/A010

A4
1" = 30'-0"
Overall Site Demolition Plan

6/6/2023 7:59:54 AM
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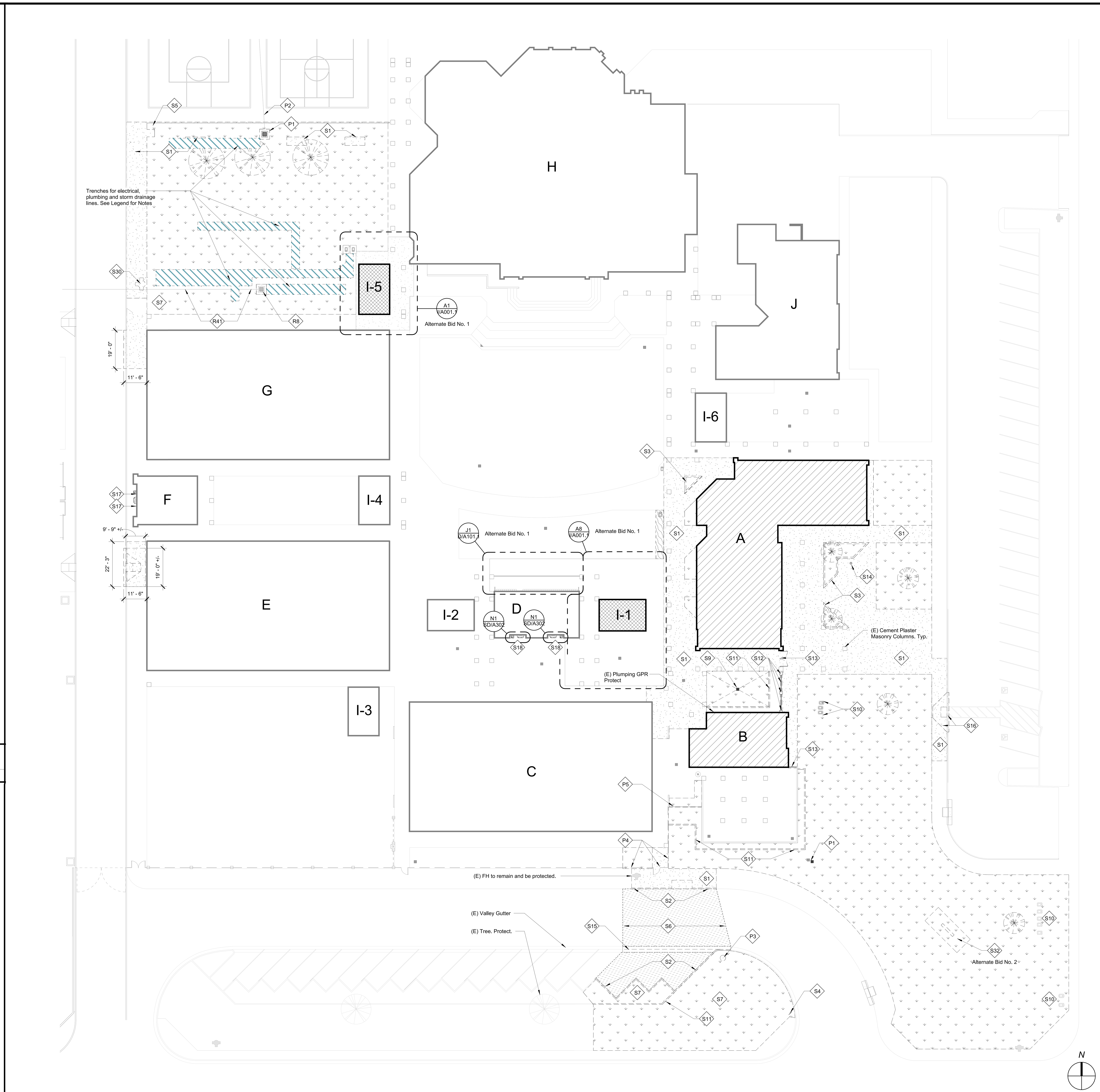
DEMOLITION NOTES

- S1 — SELECTIVE DEMOLITION, Remove Concrete Walk to the nearest expansion joint. Saw cut at control joints, when noted.
- S2 — SELECTIVE DEMOLITION, Remove Concrete Curb.
- S3 — SELECTIVE DEMOLITION, Remove Concrete Masonry planter wall and foundation.
- S4 — SELECTIVE DEMOLITION, Remove Road and Parking Signs, and concrete foundation.
- S5 — SELECTIVE DEMOLITION, Remove electrical light pole and concrete base. See Electrical Drawings.
- S6 — SELECTIVE DEMOLITION, Remove Pavement, and aggregate base down to the exposed grade. See Civil Drawings.
- S7 — SELECTIVE DEMOLITION, Remove Landscaping and Irrigation System. See Landscaping Drawings.
- S8 — SELECTIVE DEMOLITION, Remove Storm Drainage elements, catch basin and concrete mow strip. See Civil Drawings.
- S9 — SELECTIVE DEMOLITION, Remove Storm Drainage Piping. See Civil Drawings.
- S10 — SELECTIVE DEMOLITION, Remove Utility Box, lid and concrete mow strip. See Civil Drawings & Landscaping Drawings
- S11 — SELECTIVE DEMOLITION, Remove Concrete Mowstrip.
- S12 — SELECTIVE DEMOLITION, Remove steel fence, masonry wall, columns, and concrete footing.
- R13 — SELECTIVE DEMOLITION, Remove steel gate, posts, and footings.
- S14 — SELECTIVE DEMOLITION, Remove Flagpole, base, and footing.
- S15 — SELECTIVE DEMOLITION, Remove Valley Gutter.
- S16 — SELECTIVE DEMOLITION, Remove concrete perpendicular curb ramps and portions of concrete curb and pavement, to accommodate the new ramp.
- S17 — SELECTIVE DEMOLITION, Remove drinking fountains from the face of the cement plaster wall. Cut and patch to match (E) finishes and paint color / sheen. Remove unused plumbing lines and cap.
- S18 — SELECTIVE DEMOLITION, Remove wall two (2) mounted drinking fountains. Cap existing waste, vent, and domestic water lines at one (1) of the units. Protect the plumbing for the new accessible drinking fountain.
- S30 — SELECTIVE DEMOLITION, Remove Fire Hydrant. Salvage for re-use. See Civil Drawings for re-location.
- S31 — SELECTIVE DEMOLITION, Utility Box. Salvage existing lid and reset at new grades. See Civil Drawings.
- S32 — ALTERNATE BID
  SELECTIVE DEMOLITION, Remove Marquee Display Sign and footing. Remove concrete mowstrip. Remove electrical pathway as needed for new earthwork, cap and flag location so that new pathway can be installed.
- P1 — SELECTIVE DEMOLITION, Protect Storm Drainage inlet. Remove concrete mowstrip.
- P2 — SELECTIVE DEMOLITION, Protect Storm Drainage Piping. See Civil Drawings.
- P3 — SELECTIVE DEMOLITION, Protect electrical light pole and concrete base.
- P4 — SELECTIVE DEMOLITION, Protect Steel Fence, Post, and Gate.
- P5 — SELECTIVE DEMOLITION, Protect Fence and Pony Wall

GENERAL NOTES

1. Remove existing irrigation lines, heads and valves as required for new construction. The Contractor is responsible for locating the existing irrigation system within the new construction area, and protecting the irrigation system from any damage. Adjust the sprinkler system due to new improvements to provide a complete and operational system. Provide new sprinkler heads as required, equal to those removed. The irrigation system shall remain in operation during construction.
2. Refer to Civil for Additional Information.

F1 — Demolition Keynotes
NO SCALE



A4 — Partial Demolition Site Plan
1" = 20'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

- SELECTIVE DEMOLITION, Existing Item and / or Area to be Removed and / or Relocated. (See Demolition Notes)
- SELECTIVE DEMOLITION, Sawcut, Remove and Dispose of Existing Concrete Paving. Typical.
- Existing Concrete Walk
- SELECTIVE DEMOLITION, Remove and Dispose of Existing Asphalt Concrete Paving and Subgrade (See Demolition Notes)
- CLEARING AND DEMOLITION, Clearing and Grubbing. Remove Turf and Irrigation. See S7
- SELECTIVE DEMOLITION, Remove and Replace any damaged mixed planting, turf, and irrigation valves that are directly in conflict with the new improvements. In turf areas, remove a minimum of 3 feet past the edge of new hardscape, min.
- Existing Building. Scope of Work only includes Exterior Painting, Fire Alarm and HVAC Replacement.
- New Construction
- Existing Tree
- Additive Alternate Bid No. 01 Building I-1 and I-5 Modernization
- R1 — Demolition Note Symbol
- Existing Ornamental Metal Fence
- K — Building Designation
- CLEARING AND DEMOLITION, Clearing and Grubbing. Remove Trees, Shrubs, root ball and all roots 1/4" in diameter and larger.

GENERAL NOTES

FIRE CODE
The selective demolition shall follow the California Fire Code, Chapter 14 - Fire Safety During Construction and Demolition.

TOPOGRAPHIC SURVEY
Refer to Topographic Survey for additional information, which the district's survey engineer prepared. The topographic survey locates specific physical features of the Site, and it is not a complete topographic survey of the site. The information indicated reflects the data obtained by the field survey. When utility information is indicated on the topographic survey, it is a combination of information obtained from the record documents, observation of visible evidence by field survey crews, and any data learned from the underground location service provider. The district's survey engineer makes no guarantee as to the accuracy or completeness of the underground utility facilities.

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Remove existing site improvements to construct the new site improvements indicated unless noted otherwise. The demolition indicated is approximate and represents the minimum removal requirements. The Contractor shall coordinate the limits to fit the new work with the existing conditions. Before proceeding to lay out the work, verify layout information shown on the drawings in relation to the property survey, topographic survey, and existing benchmarks.

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Refer to all plans in these documents and verify the extent of the selective demolition required by all plans in preparing for the new site development work indicated in these plans.

REMOVAL OF SURFACE IMPROVEMENTS
Remove existing improvements as necessary to construct new improvements shown on these plans.

For concrete removal, remove to the nearest Expansion Joint or Control Joint. Saw cutting is only allowed at the control joint locations. Do not over-cut the saw cuts.

UNDERGROUND EXCAVATIONS
Before any site excavations, the contractor shall contact the owner and the underground service alert (USA) and request that they identify the location of all underground utilities at the site. USA service alert is for any public utility service up to the meter location.

Before removal, demolition, and installing new work, the contractor shall identify, using potholing and/or trench slotting (hydro-evacuation), the locations and portions of the site to locate and verify the locations of the underground utility lines.

UTILITY LOCATIONS AND REPAIRS
The removal of existing site improvements shall be coordinated with all plans. When required, the Contractor shall also coordinate the removal of the site improvements with Utility Agencies.

Before beginning site work, investigate and verify the existence, location, and elevation of all underground utilities and other construction affecting the Work. The existence and location of underground utilities indicated as existing are not guaranteed. Determine the location and invert elevation at points of connection of sanitary sewer and storm drainage systems. Accurately document vertical and horizontal measurements, and elevations uncovered or verified.

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IRRIGATION REMOVAL AND REPAIRS
Remove existing irrigation lines, heads, and valves as required for new construction. The Contractor is responsible for field verification of the existing irrigation system within the new construction area and for providing all required to amend and adjust the sprinkler system due to new improvements to provide a complete and operational system. Provide new sprinkler heads as required, same as removed. The irrigation system shall remain in operation during construction. Adjust existing sprinkler heads and lateral lines as required by new improvements or as shown on the irrigation plans.

E18 — Partial Demolition Site Plan Legend
No Scale

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

SITE DEVELOPMENT
PARTIAL SITE DEMOLITION PLAN
Drawing

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LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright 2023 Darden Architects
Scale: 1" = 20'-0"	Drawn By: KX	SD/A011
Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

6/6/2023 7:59:57 AM
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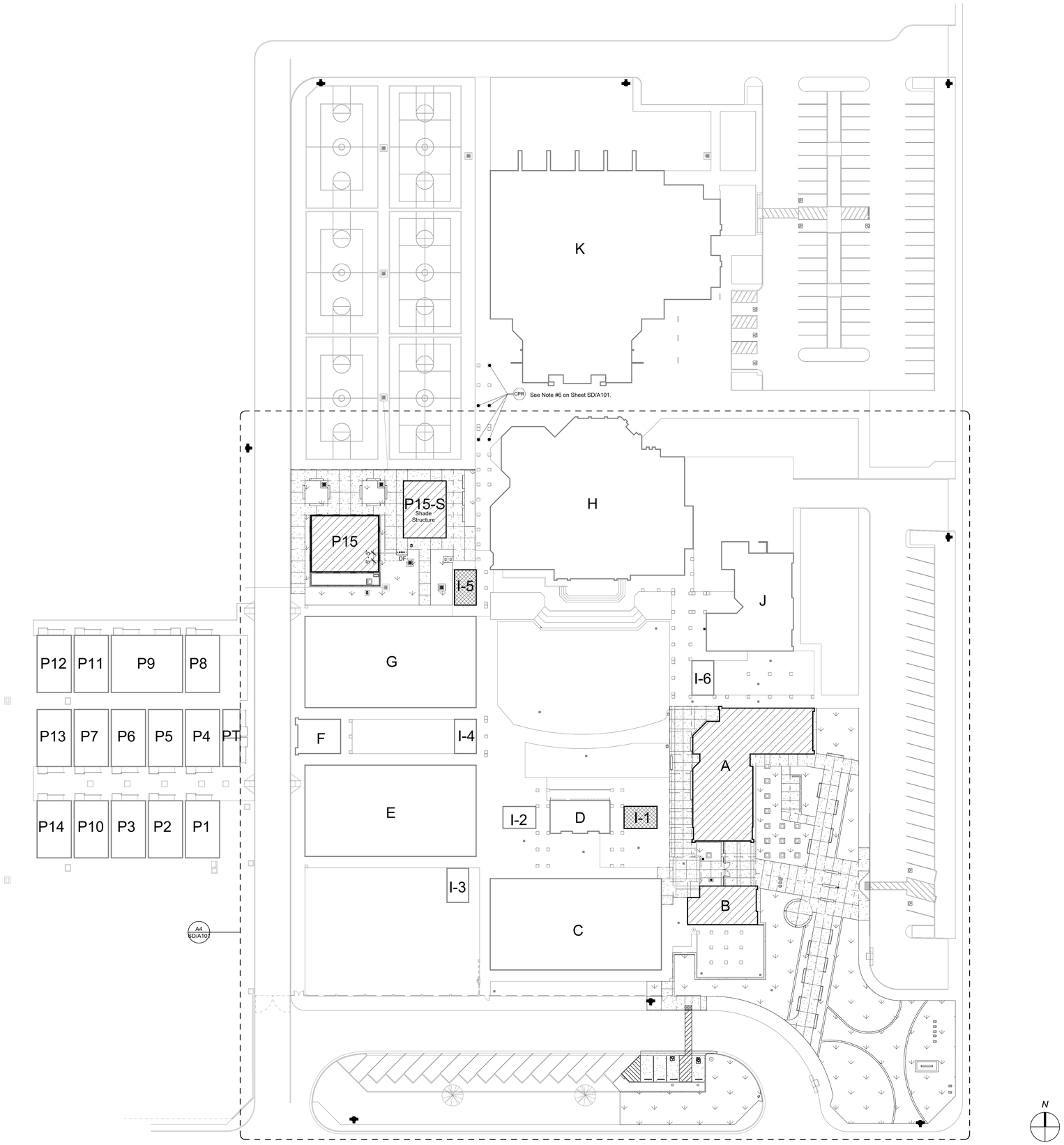
DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval



Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
OVERALL SITE PLAN

Drawing

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LICENSED ARCHITECT
MICHAEL K. FERRARO
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2023 Darden Architects
Scale:	1" = 30'-0"	Drawn By: KX	SD/A100
Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

A4
1" = 30'-0"

Overall Campus Plan

6/6/2023 7:59:51 AM
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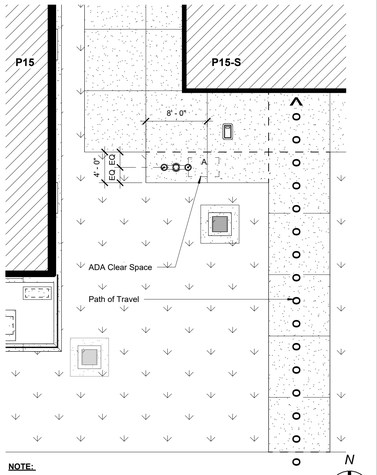
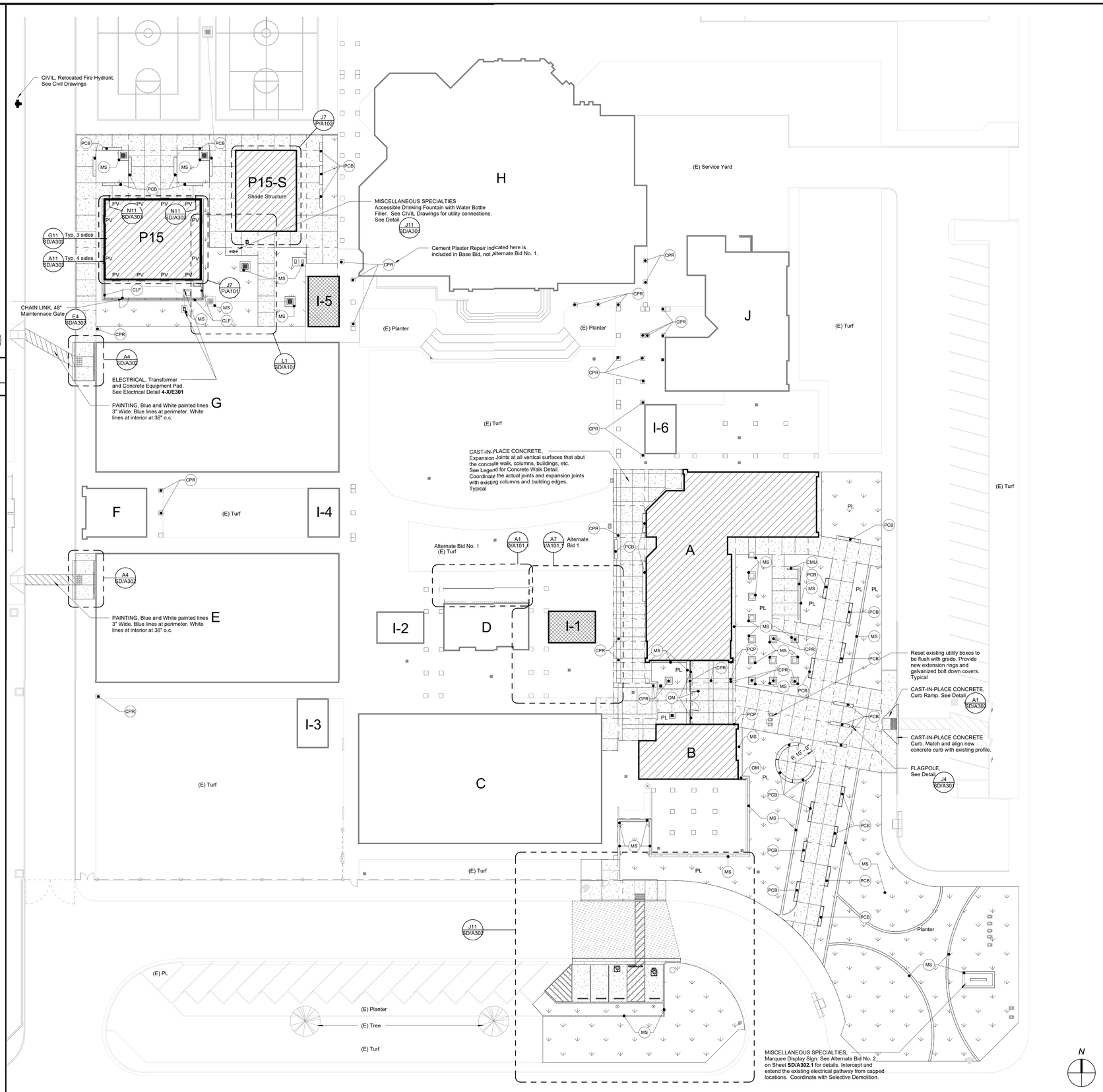


NOTE:

Path of Travel shown for DSA Review ONLY.

L1	Enlarged Drinking Fountain Plan
1/8" = 1'-0"	



A4	Partial Site Plan
1" = 20'-0"	

DSA File No.:
15-95

DSA Application No.:
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SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

- PAVEMENT, See Detail N14 SD/A307
- LANDCSAPING, Turf / Planter and irrigation system adjustments. See Landscaping Drawings.
- CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill. Dashed lines indicate expansion joints. Solid lines indicate control joints. See Detail A14 SD/A307
- Existing Building. Scope of Work only includes Exterior Painting, Fire Alarm and HVAC Replacement.
- New Construction
- Additive Alternate Bid No. 01 Building I-1 and I-5 Modernization
- Building Outline
- Property Line
- Limits of Construction (Project Area)
- Pipe/Utility
- Covered Area
- Grade Break
- Existing
- Drainage Swale
- Slope (DN) — General Direction of Slope
- ELECTRICAL, Existing Light Pole
- 386 — Finish Grade Contour
- CB — CIVIL, Catch Basin or Drain Box
- DB — STORM DRAINAGE, Drain Box
- DI — STORM DRAINAGE, Drain Inlet
- TD — STORM DRAINAGE, Trench Drain
- FH — CIVIL, Fire Hydrant
- FDC — Fire Department Connection (Siamese)
- PIV — Post Indicator Valve
- CO — PLUMBING, Clean Out,
- CO — CIVIL, Sewer Clean Out,
- PLUMBING, Shut Off Valve
- SOV
- ELECTRICAL, Pole Light Fixture
- ELECTRICAL, Bollard Light Fixture
- ELECTRICAL, Light Fixture, Directional
- ELECTRICAL & MECHANICAL, Utility Box
- CLF — Chain Link Fence, 6'-0" Tall with polyethylene tubular privacy slats — E4 SD/A302
- CMU — Concrete Masonry Units Site Wall. — A11 SD/A302
- CPR — Cement Plaster Repair — A11 X/A101
- PCB — Precast Concrete Bench — E7 SD/A307
- MS — Concrete Mow Strip — J1 SD/A307
- OM — ORNAMENTAL METAL — A7 SD/A304

ABBREVIATIONS

(E)	Existing	FG	Finish Grade	PL	Planter
C	Concrete	FL	Flow Line	PV	Portable Vent
CB	Catch Basin	FS	Floor Sink	R	Radius
CJ	Control Joint	G	Gas	SD	Storm Drain
CM	Communications	GT	Gutter	SL	Site Lighting
COB	Clean Out Box	GB	Grade Break	S	Signal
CPR	Cement Plaster Repair	RG	Rough Grade	TB	Top of Bench
DB	Drain Box	HPG	High Pressure Gas	TC	Top of Curb
DI	Drain Inlet	MH	Manhole	TD	Trench Drain
DS	Drainage Swale	MS	Mow Strip	TG	Top of Grate
E	Electrical Power	OC	On Center	TF	Top of Fence
EJ	Expansion Joint, 1/2"	OM	Ornamental Metal	TL	Top of Lid
F	Fire Protection	P	Pavement	TW	Top of Wall
FD	Floor Drain	PCB	Pre-Cast Bench	Typ.	Typical
FDC	Fire Dept Connection	PCP	Patch Cement Plaster	UNO	Unless Noted Otherwise
FF	Finish Floor	P1-P4	Electrical Utility Box		
		PIV	Post Indicator Valve	VG	Valley Gutter
				W	Waste

NOTES

1) CAST-IN-PLACE CONCRETE, All Concrete Walk Joints Shall Be Expansion Joints unless otherwise noted. Provide Expansion Joints where walk abuts other site elements.

2) CUTTING AND PATCHING, Patch Cement Plaster where site note PCP is indicated.

3) Contractor to verify with Architect all locations where site note CPR is indicated.

F18	Site Plan Legend
No Scale	

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
PARTIAL SITE PLAN

Drawing

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LICENSED ARCHITECT MICHAEL A. FRANCO No. C23724 Exp. 4-30-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2023 Darden Architects
Scale:	As indicated	Drawn By: KX	SD/A101
Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

6/6/2023 8:00:01 AM
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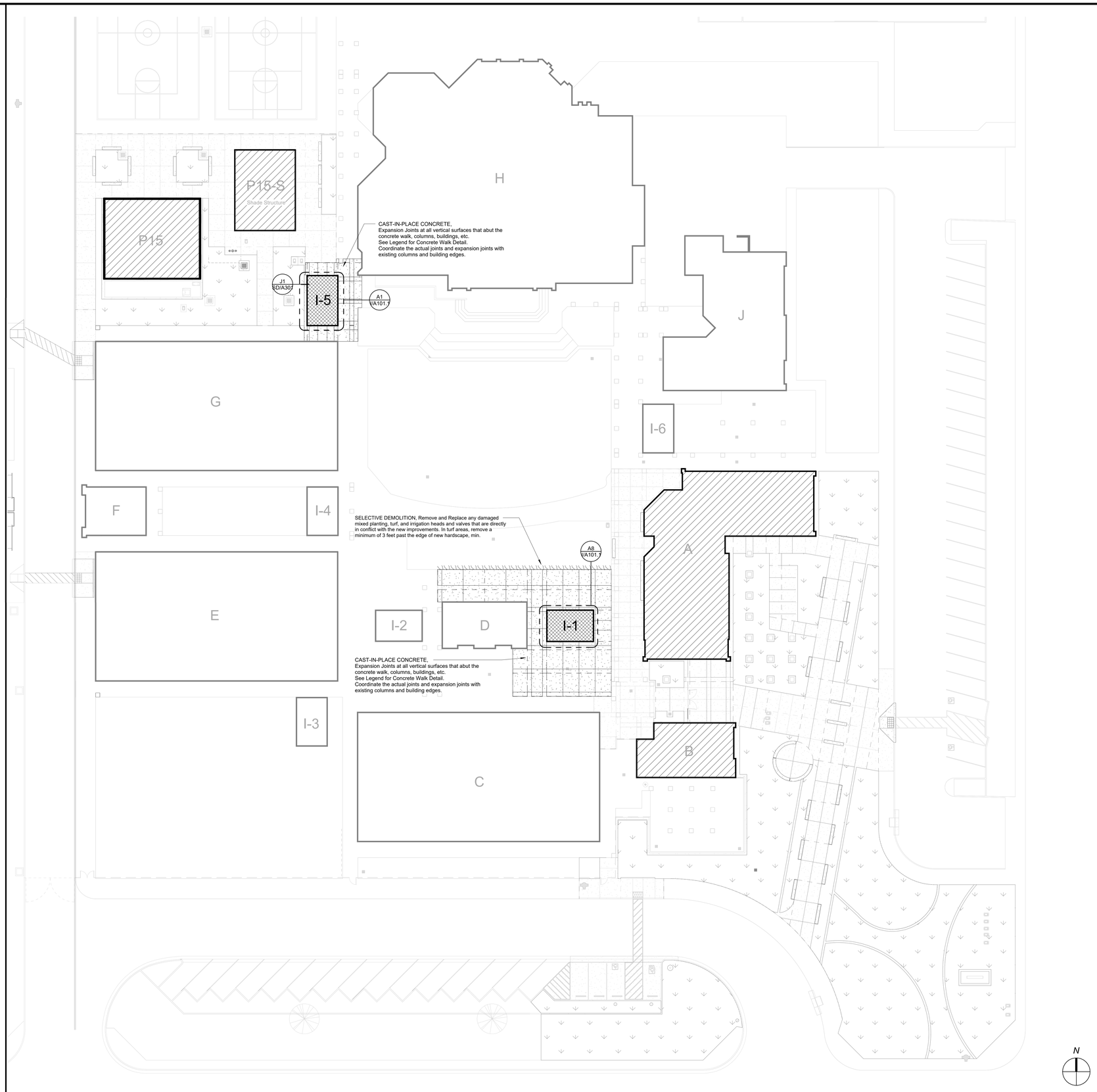

A4

1" = 20'-0"

Partial Site Plan, Alternate Bid No. 1

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

- PAVEMENT, See Detail N14 / SD/A307
- LANDCSAPING, Turf / Planter and irrigation system adjustments. See Landscaping Drawings.
- CAST-IN-PLACE CONCRETE, 4" Concrete Walk over 6" 90% Compacted Fill. Dashed lines indicate expansion joints. Solid lines indicate control joints. See Detail A14 / SD/A307
- Existing Building. Scope of Work only includes Exterior Painting, Fire Alarm and HVAC Replacement.
- New Construction
- Additive Alternate Bid No. 01 Building I-1 and I-5 Modernization
- Building Outline
- Property Line
- Limits of Construction (Project Area)
- Pipe/Utility
- Covered Area
- Grade Break
- Existing
- Drainage Swale
- Slope (DN) — General Direction of Slope
- ELECTRICAL, Existing Light Pole
- 386 — Finish Grade Contour
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- DI — STORM DRAINAGE, Drain Inlet
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- PIV — Post Indicator Valve
- CO — PLUMBING, Clean Out,
- CO — CIVIL, Sewer Clean Out,
- SOV — PLUMBING, Shut Off Valve
- ELECTRICAL, Pole Light Fixture
- ELECTRICAL, Bollard Light Fixture
- ELECTRICAL, Light Fixture, Directional
- ELECTRICAL & MECHANICAL, Utility Box
- CLF — Chain Link Fence, 6'-0" Tall with polyethylene tubular privacy slats — E4 / SD/A302
- CMU — Concrete Masonry Units Site Wall. — A11 / SD/A302
- CPR — Cement Plaster Repair — A11 / X/A101
- PCB — Precast Concrete Bench — E7 / SD/A307
- MS — Concrete Mow Strip — J1 / SD/A307
- OM — ORNAMENTAL METAL — A7 / SD/A304

ABBREVIATIONS

(E)	Existing	FG	Finish Grade	PL	Planter
C	Concrete	FL	Flow Line	PV	Portable Vent
CB	Catch Basin	FS	Floor Sink	R	Radius
CJ	Control Joint	G	Gas	SD	Storm Drain
CM	Communications	GT	Gutter	SL	Site Lighting
COB	Clean Out Box	GB	Grade Break	S	Signal
CPR	Cement Plaster Repair	RG	Rough Grade	TB	Top of Bench
DB	Drain Box	HPG	High Pressure Gas	TC	Top of Curb
DI	Drain Inlet	MH	Manhole	TD	Trench Drain
DS	Drainage Swale	MS	Mow Strip	TG	Top of Grate
E	Electrical Power	OC	On Center	TF	Top of Fence
EJ	Expansion Joint, 1/2"	OM	Ornamental Metal	TL	Top of Lid
F	Fire Protection	P	Pavement	TW	Top of Wall
FD	Floor Drain	PCB	Pre-Cast Bench	Typ.	Typical
FDC	Fire Dept Connection	PCP	Patch Cement Plaster	UNO	Unless Noted Otherwise
FF	Finish Floor	P1-P4	Electrical Utility Box		
		PIV	Post Indicator Valve	VG	Valley Gutter
				W	Waste

NOTES

1) CAST-IN-PLACE CONCRETE, All Concrete Walk Joints Shall Be Expansion Joints unless otherwise noted. Provide Expansion Joints where walk abuts other site elements.

2) CUTTING AND PATCHING, Patch Cement Plaster where site note PCP is indicated.

3) Contractor to verify with Architect all locations where site note CPR is indicated.

F18 — Site Plan Legend

No Scale

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
PARTIAL SITE PLAN - ALTERNATE BID NO. 1

Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: KX	SD/A101.1
Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

6/6/2023 8:00:04 AM
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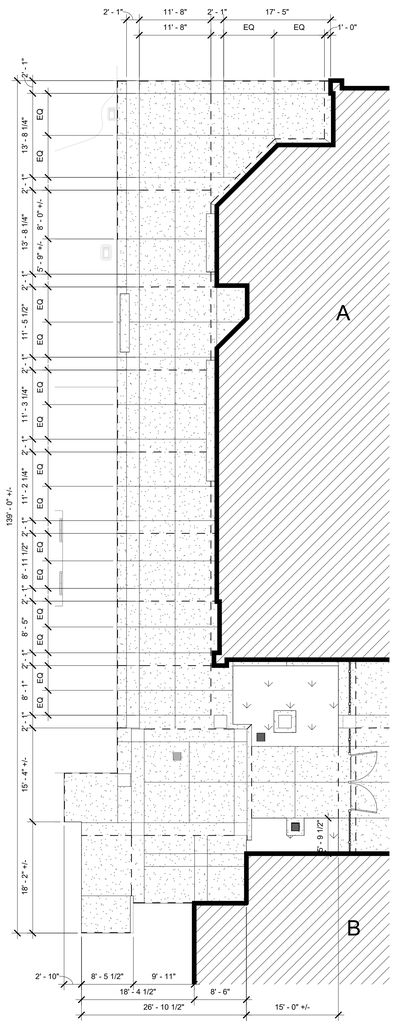
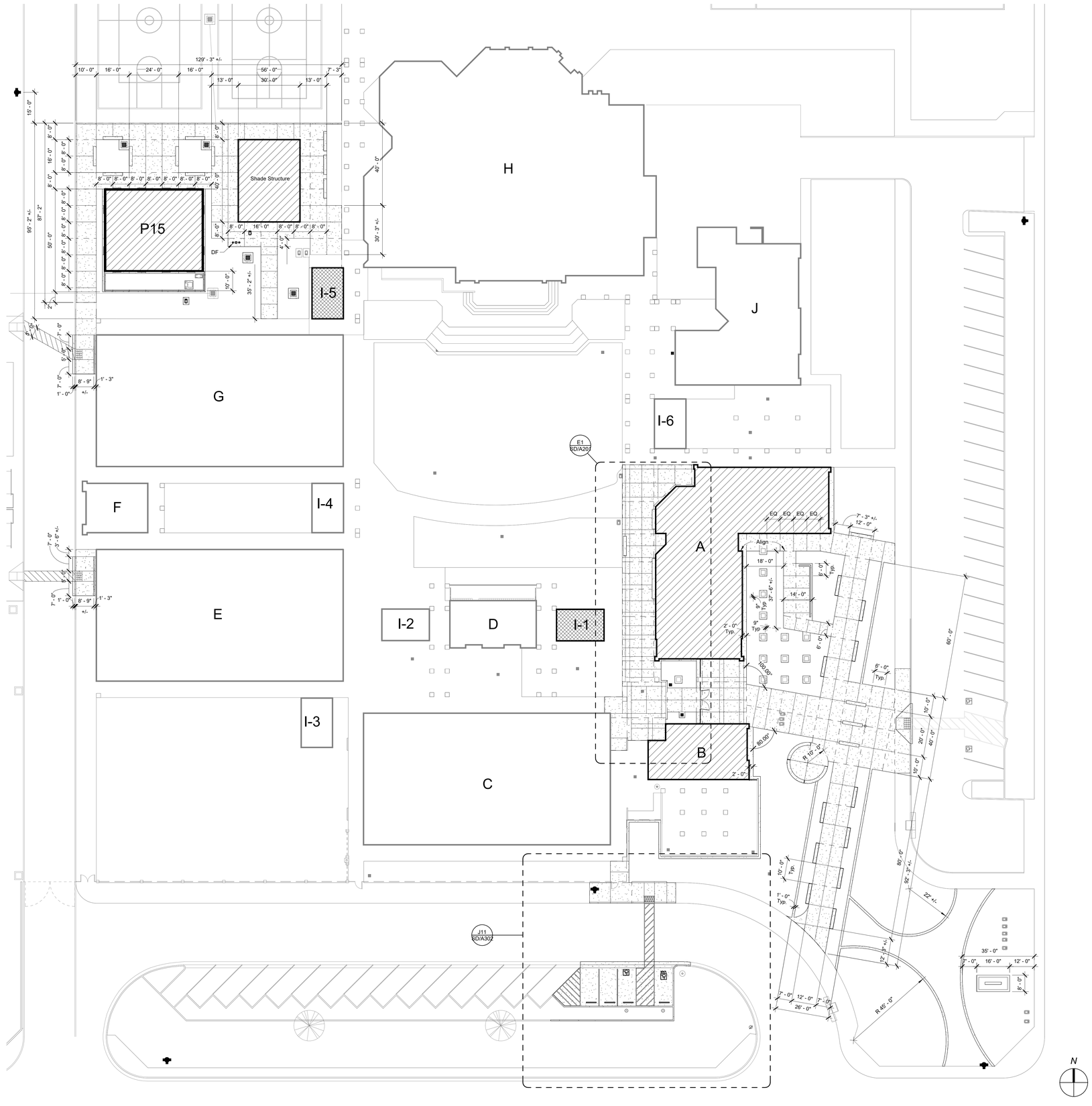


E1 | Enlarged Partial Site Dimension Plan

1" = 10'-0"



A4 | Partial Site Dimension Plan

1" = 20'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

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APP: 03-122615 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
PARTIAL SITE DIMENSION PLAN

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LICENSED ARCHITECT
MICHAEL K. FENOLIO
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

SD/A201

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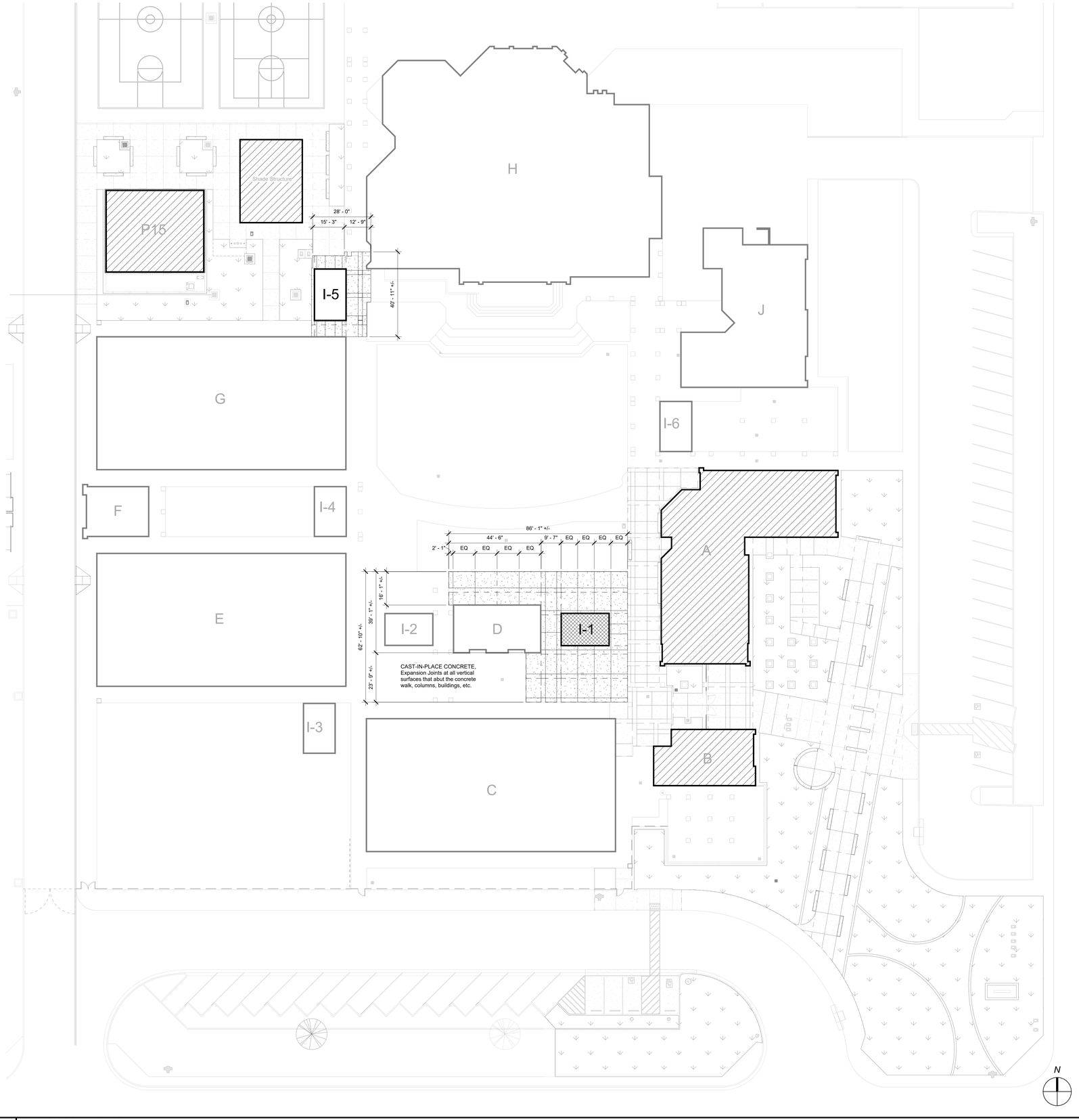

A4	Partial Site Dimension Plan, Alternate Bid No. 1
1" = 20'-0"	

DSA File No.:
15-95

DSA Application No.:
03-122615

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SYMBOLS

Concrete Expansion Joint

Concrete Control Joint

P18	Partial Demolition Site Plan Legend
No Scale	

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
PARTIAL SITE DIMENSION PLAN - ALTERNATE BID NO. 1

Drawing

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MICHAEL K. FENNACY
No. C23724
Ren. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2023 Darden Architects
Scale:	1" = 20'-0"	Drawn By: KX	SD/A201.1
Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

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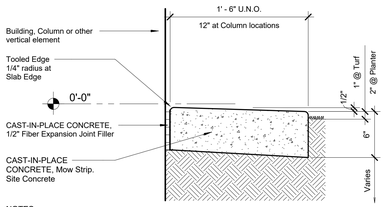
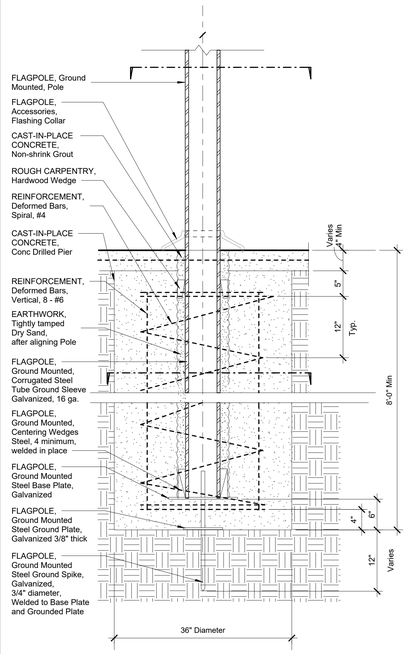


NOTES:
1) Slope in the direction of general terrain slope, away from adjacent improvements.
2) Provide control joints at outside edges / corners, and at 6-feet on center. See typical control joint detail.

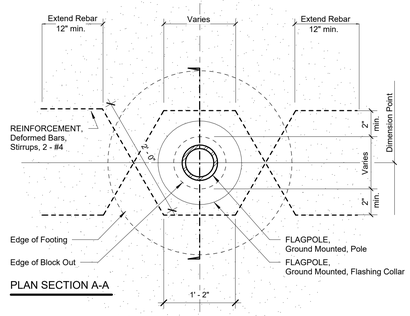
J1 — CAST-IN-PLACE CONCRETE, Mow Strip
1 1/2" = 1'-0"



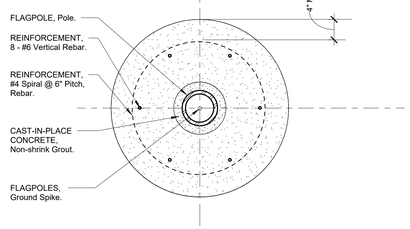
ELEVATION SECTION C-C

NOTE:
Above ground flagpole is to be less than 35-feet tall.
The detial is exempt from DSA review per California Administrative Code Sec. 4-314

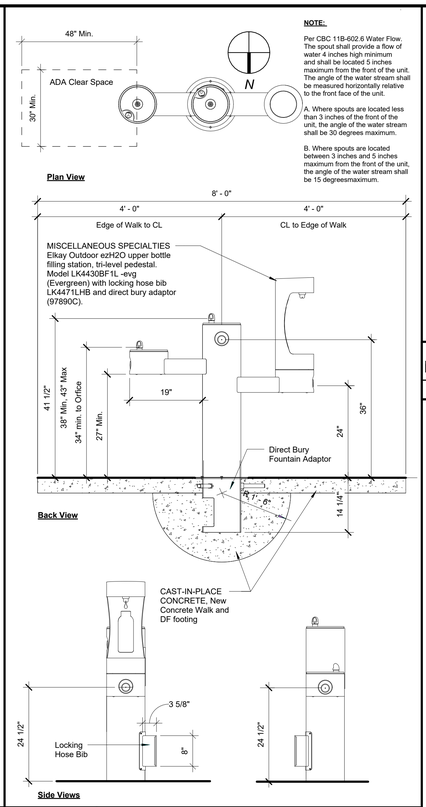
J4 — FLAGPOLE, Ground Mounted Flagpole
1" = 1'-0"



PLAN SECTION A-A



PLAN SECTION B-B



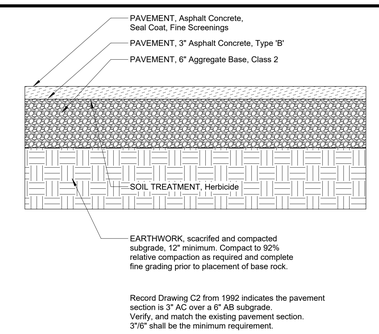
NOTE:

Per CBC 11B-602.6 Water Flow. The spout shall provide a flow of water 4 inches high minimum and shall be located 5 inches maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit.

A. Where spouts are located less than 3 inches of the front of the unit, the angle of the water stream shall be 30 degrees maximum.

B. Where spouts are located between 3 inches and 5 inches maximum from the front of the unit, the angle of the water stream shall be 15 degreesmaximum.

J11 — MISCELLANEOUS SPECIALTIES, Accessible Drinking Fountain with Water Bottle Filler
3/4" = 1'-0"



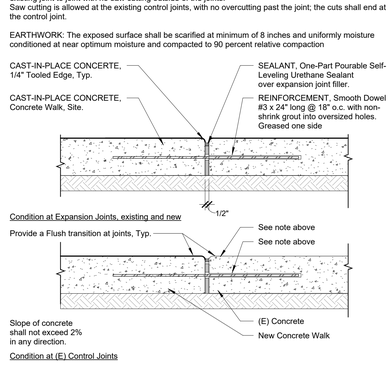
Record Drawing C2 from 1992 indicates the pavement section is 3" AC over a 6" AB subgrade.
Verify, and match the existing pavement section.
3"/6" shall be the minimum requirement.

N14 — PAVEMENT, Paving Section Detail
1" = 1'-0"

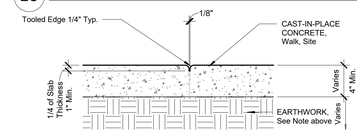
INSTALLATION
1. Drill Hole 1/8" Larger than Rebar Diameter
2. Clean hole thoroughly of dust and fragments with water, wire brush and air.
3. Grease the dowels at new concrete walks & buildings; in order to allow for expansion
4. When required, install Hilti HIT-RE 500-V3 (ESR-3814) into the existing concrete walk opposite the greased dowel locations.

SELECTIVE DEMOLITION, Removing Existing Concrete:
Removing and replacing existing site concrete walks shall be accomplished by removing concrete from existing joint to joint with no saw cutting outside of the joints.
Saw cutting is allowed at the existing control joints, with no overcutting past the joint; the cuts shall end at the control joint.

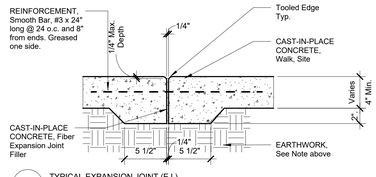
EARTHWORK: The exposed surface shall be scarified at minimum of 8 inches and uniformly moisture conditioned at near optimum moisture and compacted to 90 percent relative compaction



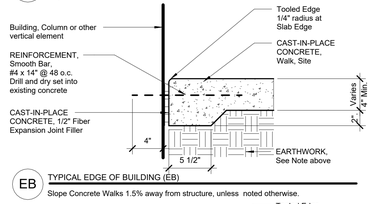
EC — NEW CONCRETE TO EXISTING CONCRETE DETAIL (EC)



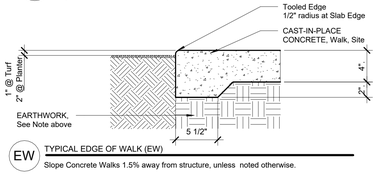
CJ — TYPICAL CONTROL JOINT (CJ.)
Control Joints shall be placed 8'-0" o.c. (1:24), 10'-0' (1:30) maximum unless otherwise noted.



EJ — TYPICAL EXPANSION JOINT (EJ.)
Expansion Joints Shall be Placed 30'-0" o.c. Maximum, unless otherwise noted

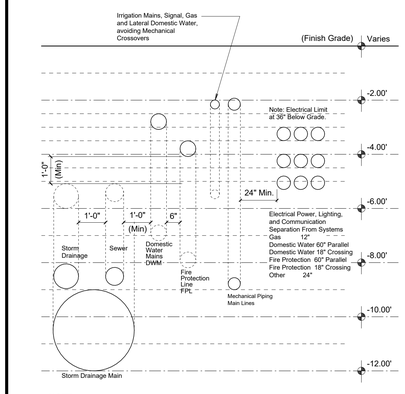


EB — TYPICAL EDGE OF BUILDING (EB)
Slope Concrete Walks 1.5% away from structure, unless noted otherwise.



EW — TYPICAL EDGE OF WALK (EW)
Slope Concrete Walks 1.5% away from structure, unless noted otherwise.

A14 — CAST-IN-PLACE CONCRETE, Walk Sections
1 1/2" = 1'-0"



NOTE:
1) This diagram and schedule is provided for the convenience of the Contractor. Contractor shall be responsible for the installation of all utilities avoiding all conflicts. Refer to Specification Section, Contractor's "Project management and Coordination.
2) Where Utilities are within 2'-0" Vertical distance below building footings, encase with lean mix concrete fill. See Structural detail.
3) Where Electrical is in conflict with other systems, Electrical shall go deeper to avoid conflicts.
4) Conduit shown dark solid indicates ideal position. Dashed Conduit indicates range of position.
5) Electrical Lighting refer to Plan for Location/Route. Maintain required Clearances.
6) High Points of Utility Lines, Indicated by Dashed Lines, Represent Connections to Surface Improvements or Buildings, Typ Unless Otherwise Noted.
7) Refer to Each Consultants' Drawings for 'Conduit in Trench' Details for Additional Notes, Dimensions and Requirements, Typical.
8) Detail A1 this sheet for utility trench minimum requirements

GUIDELINE LEGEND: Least Flexible = 1 Most Flexible=10

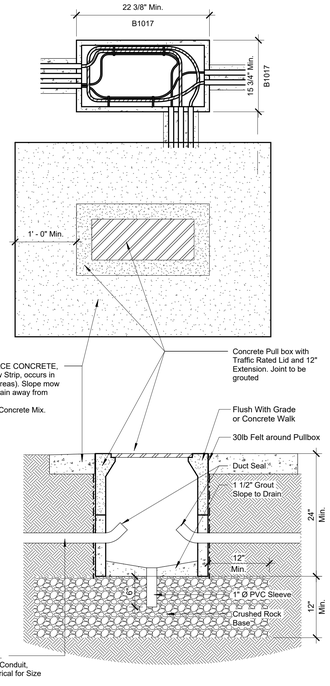
1	SEWER	Highest Priority	Gravity fed, constant slope, below other utilities.
2	STORM DRAINAGE (Main and Other)	High Priority	Gravity fed, constant slope to flat, below most utilities.
3	HYDRONIC LINES (Chilled Water/Hot Water)	Medium Priority	Any constant slope to flat run to avoid conditions creating air traps. No elbow up conditions unless at end of run. See Mechanical.
4	POWER (Main Trunk)	High Priority	Any slope, long straight run, large trenches. Typical clearances from other utilities. See Electrical.
	LIGHTING (Main Trunk)	High Priority	Any slope, long straight run, large trenches. Typical clearances from other utilities. See Electrical.
5	FIRE PROTECTION LINES	Medium Priority	Any slope, minimal number of sudden changes in direction. Thrust Block required at changes in direction. See Plumbing.
6	DOMESTIC WATER LINES	Medium Priority	Pressurized, any slope, cross over, cross under conditions.
6	HIGH PRESSURE GAS LINES	Low Priority	Pressurized, any slope, cross over, cross under conditions.
7	POWER (Other)	Low Priority	Any slope, cross over, cross under conditions. Typical clearances from other utilities. See Electrical.
7	LIGHTING (Other)	Low Priority	Any slope, cross over, cross under conditions. Typical clearances from other utilities. See Electrical.
8	COMMUNICATION	Low Priority	Any slope, cross over, cross under conditions. Typical clearances from other utilities. See Electrical.
9	IRRIGATION	Lowest Priority	Any slope, cross over, cross under conditions.

A1 — Vertical Control
1" = 100'-0"

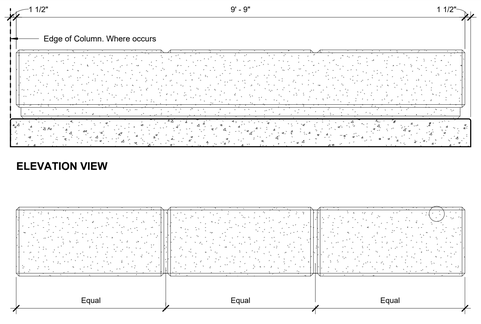
NOTES:
Refer to the Plumbing, Electrical, Low Voltage, etc,. plans for Utility Box Sizes and related details.

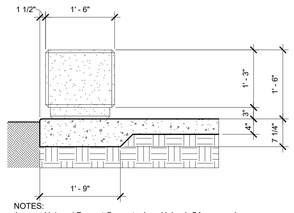
The minimum standard for all electrical and low voltage pull boxes shall be Oldcastle Enclosure Solution, with H20 rating and galvanized-steel bolt-down checker plate; the minimum size is a B1017.

In Landscaping areas provide concrete aprons around boxes; 9" wide x 4" thick and sloping away from vault. In Concrete walks, set flush with concrete walk.



A4 — CAST-IN-PLACE CONCRETE, Mow Strip and Utility Box Detail
1" = 1'-0"



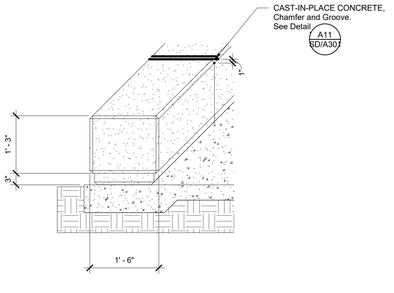


NOTES:
1. Univeral Precast Concrete, Inc., Upland, CA, or equal
2. All Chamfers shall be 3/4", in locations indicated.
3. Set benches on a thickened concrete edges, as indiacted.
4. Provide a smooth sand blasted finirsh with a uniform color.
5. Provide mock-up prior to fabrication.
6. Concrete walk / pad shall be level.

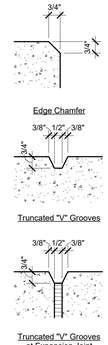
Architectural Mix Design
Strength: 5,000 psi in 28 day
Max. Aggregate Size: 3/4"
Admixture: Water Reducing
Cement: ASTM C150/C150M Type II, with a white gray mix
Materials: ASTM C33/C33M; Concrete Aggregates; 3/4" Max
Integral Color: ASTM C979, synthetic mineral oxide, non-fading

SIDE VIEW

E7 — CAST-IN-PLACE CONCRETE Pre-Cast Concrete Bench
3/4" = 1'-0"



A7 — CAST-IN-PLACE CONCRETE, Skateboard Deterent
3/4" = 1'-0"



A11 — CAST-IN-PLACE CONCRETE, Chamfer and Groove
3" = 1'-0"

DSA File No.: *15-95*

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Agency Approval

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
SITE DETAILS

Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

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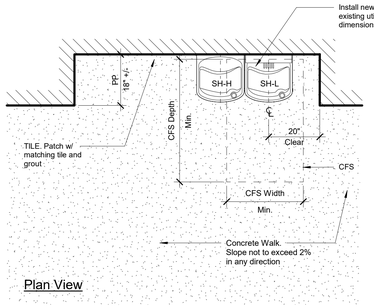
Notes and Abbreviations

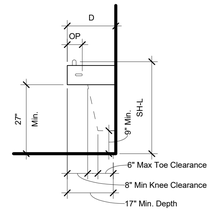
CFS Clear Floor Space for accessible maneuvering clearances. 30" wide min. x 48" deep min when alove depth is less than 24" deep, and 36" wide min. x 48" deep min when alove depth is greater than 24" deep
OP = Operable Parts, side mounted control 6" max from front edge
SH-L = Spout Height (Low / Accessible) bubler outlet, 36" Max.
SH-H = Spout Height (High / Standing) bubler outlet range shall be 38" to 43".
SL = Spout Location. 15" min. from vertical wall and 5" max from front egde of unit.
D = Depth of Drinking Fountain.18" min - 19" max.
PP = Pedestrian Protection alcove. Minimum depth shall not be less than 18" and shall project horizontally at least as far as the drinking fountain.

Code References CBC 11B-305 & CBC 11B-602

DF-1: Drinking Fountain
HAWS Model 1119.14
Wall hung, bi-level units, ADA compliant, 14 gauge stainless steel cabinets and non-splash basins with stainless steel finish, stream projectors with protective hoods, push button operating controls on front, built-in flow regulator, plastic p-trap assembly, adjustable thermostat, mounting accessories, tank drain and angle stops, compliant to latest ANSI a117.1 and ADA standards. Unit shall comply with federal act s.3874. Unit shall provide 8.0 gph of water @ ambient. Water system shall be of lead-free construction. Tank shall be tested to 125 psig. orifice shall be at 36"" (maximum) above finished floor on lower unit and 40"" above finished floor on upper unit. Bottom of apron shall be 27"" above floor on lower unit in compliance 2019 CBC.

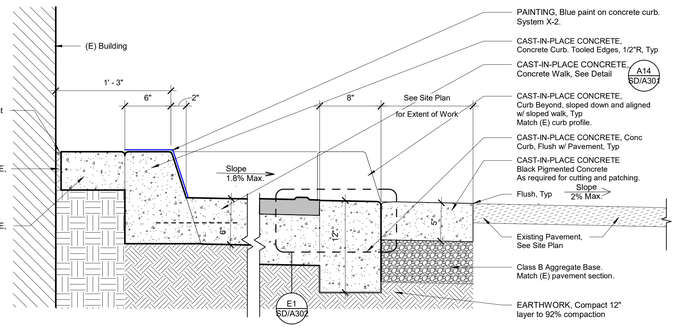


Plan View

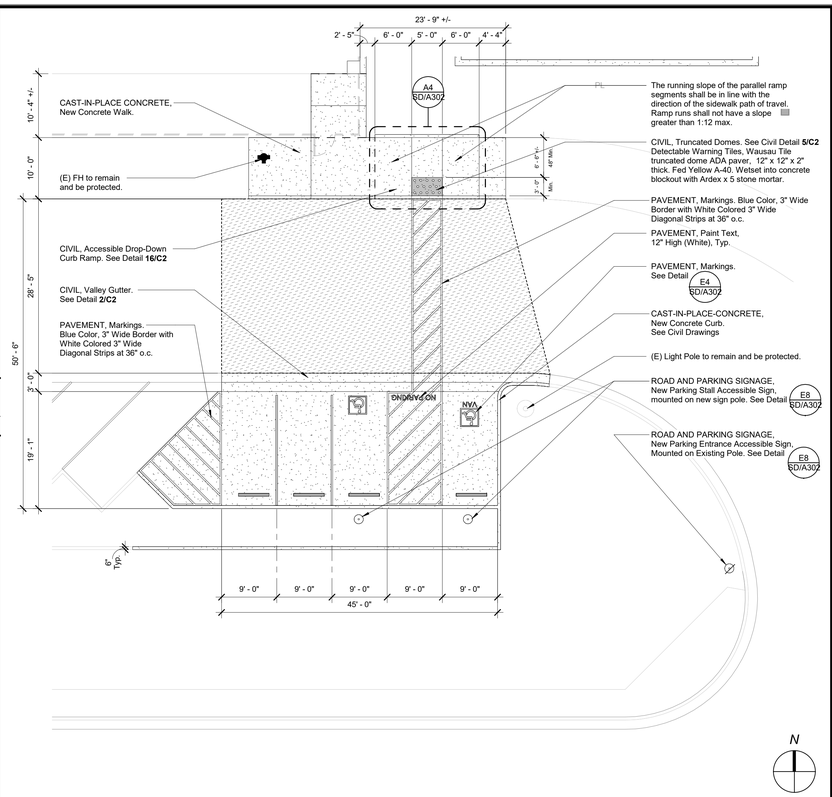


Side View

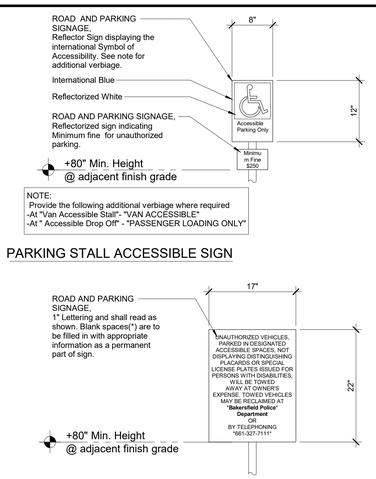
N1 | PLUMBING, Accessible High-Low Exterior Drinking Fountian
1/2" = 1'-0"



J1 | CAST-IN-PLACE CONCRETE, Parallel Ramp Section
1 1/2" = 1'-0"

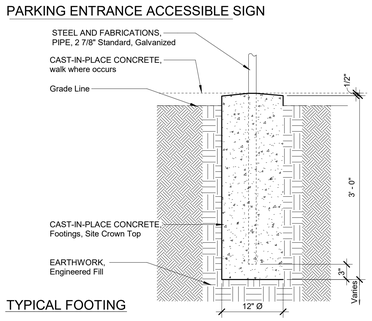


J11 | Enlarged Partial Site Plan, Parking Lot Three
1" = 10'-0"



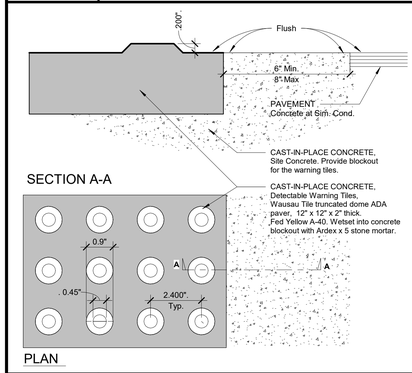
PARKING STALL ACCESSIBLE SIGN

PARKING ENTRANCE ACCESSIBLE SIGN

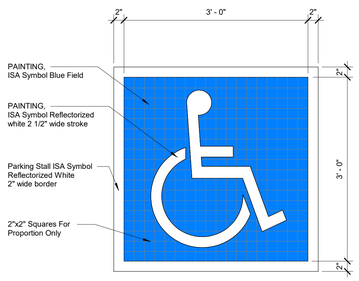


TYPICAL FOOTING

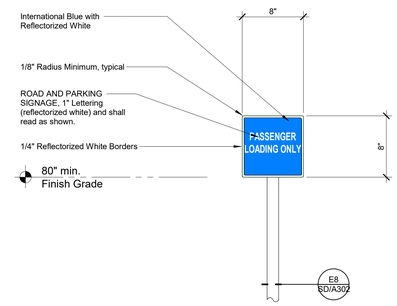
E8 | ROAD AND PARKING SINAGE, Accessible Parking & Entrance Sign
1" = 1'-0"



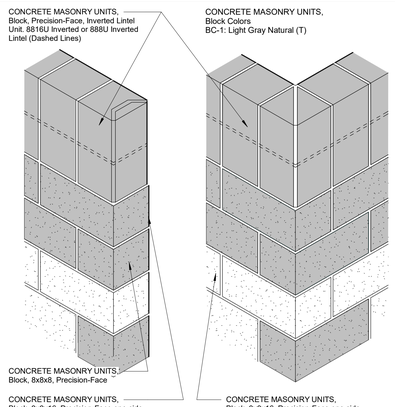
E1 | CAST-IN-PLACE CONCRETE, Truncated Domes
6" = 1'-0"

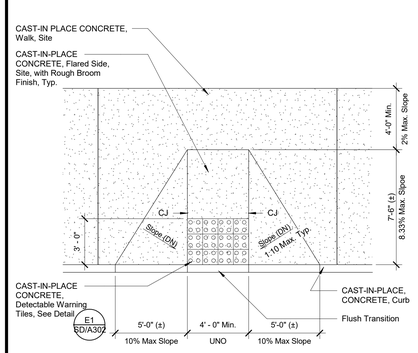


E4 | PAVMENT, ISA Symbol @ Parking Stall
1" = 1'-0"



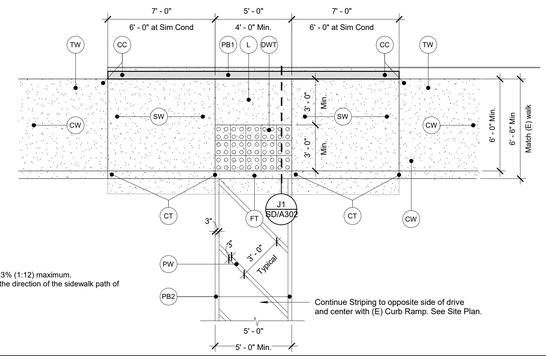
E11 | ROAD AND PARKING SIGNAGE, Passenger Loading Only
1 1/2" = 1'-0"





A1 | CAST-IN-PLACE CONCRETE, Accessible Ramp @ Curb
1/4" = 1'-0"

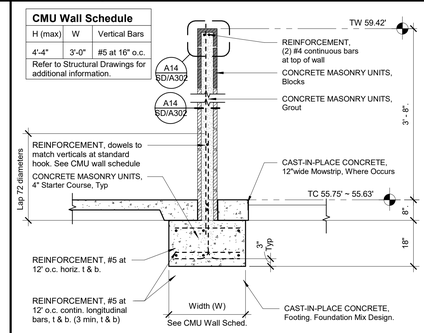
PB1	PAINTING, Blue paint on concrete curb. System X-2.
PB2	PAINTING, Blue paint on pavement / concrete. 3" side boarder stripe. System X-2.
PW	PAINTING, White paint on pavement / concrete. 3" wide stripes @ 36" o.c. System X-2.
CC	CAST-IN-PLACE CONCRETE, Concrete Curb Align top of curb with top of walk . See Civil Drawings for grading.
CT	CAST-IN-PLACE CONCRETE, Concrete Curb Transition from full height curb to flush curb with slope of walk. See
CW	CAST-IN-PLACE CONCRETE, Concrete Walk
DWT	CAST-IN-PLACE CONCRETE, Detectable Warning Tiles, Wausau Tile truncated dome ADA paver, 12" x 12" x 2" thick. Fed Yellow A-40. Wetset into concrete blockout with Ardex x 5 stone mortar. E1 5D/A302
FT	CAST-IN-PLACE CONCRETE, Flush Transition between pavement and landing.
L	CAST-IN-PLACE CONCRETE, Landing. Slope towards pavement, 1.7% max.
SW	CAST-IN-PLACE CONCRETE, Sloped Walk Slope down at 7.6%, 8.3% (1:12) maximum. The running slope of the parallel ramp segments shall be in line with the direction of the sidewalk path of travel. Provide a heavy broom finish in the sloped direction.
TW	CAST-IN-PLACE CONCRETE, Top of Walk. 1.7% cross slope, towards pavement. 2.0% maximum slope. See Civil Drawings for Grades/



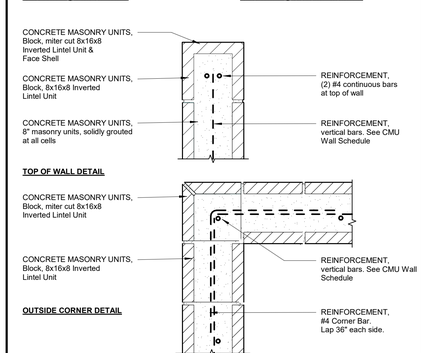
A4 | CAST-IN-PLACE CONCRETE, Parallel Ramp
1/4" = 1'-0"

CMU Wall Schedule

H (max)	W	Vertical Bars
4'-4"	3'-0"	#5 at 16" o.c.
Refer to Structural Drawings for additional information.		



Typical Masonry Wall Detail



A11 | CONCRETE MASONRY UNITS, Wall & Footing Details
1/2" = 1'-0"

A14 | CONCRETE MASONRY UNITS, CMU Details
1 1/2" = 1'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

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APP: 03-122615 INC:
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DATE: 07/20/2023

Agency Approval

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
DETAILS - ACCESSIBLE ELEMENTS AND ENCLOSURE DETAILS

Drawing

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LICENSED ARCHITECT MICHAEL K. FERRARO No. C23724 Reg. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: KX	SD/A302
Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

6/6/2023 8:00:16 AM
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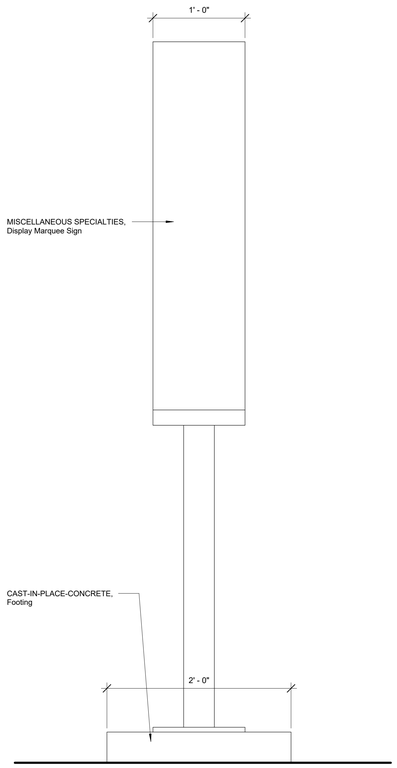
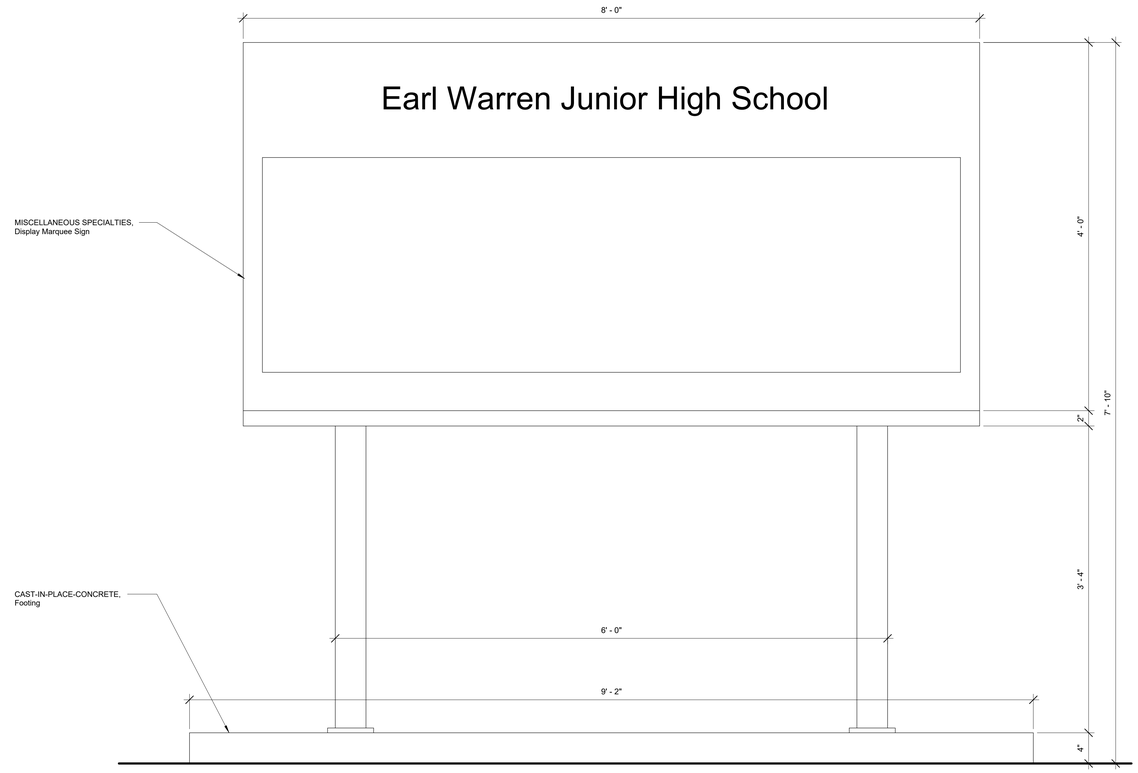


J4 — MISCELLANEOUS SPECIALTIES, Display Marquee Sign Side View Elevation

1 1/2" = 1'-0"

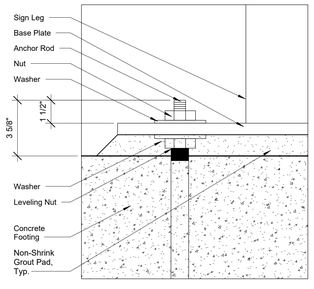
Marquee Sign is Exempt from DSA Structural Safety Appoval per DSA IR A-22



J7 — MISCELLANEOUS SPECIALTIES, Display Marquee Sign Front View Elevation

1 1/2" = 1'-0"

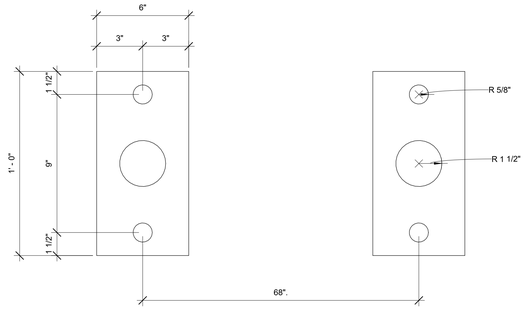
Marquee Sign is Exempt from DSA Structural Safety Appoval per DSA IR A-22



E4 — MISCELLANEOUS SPECIALTIES, Display Marquee Sign Anchor Rod Details

3" = 1'-0"

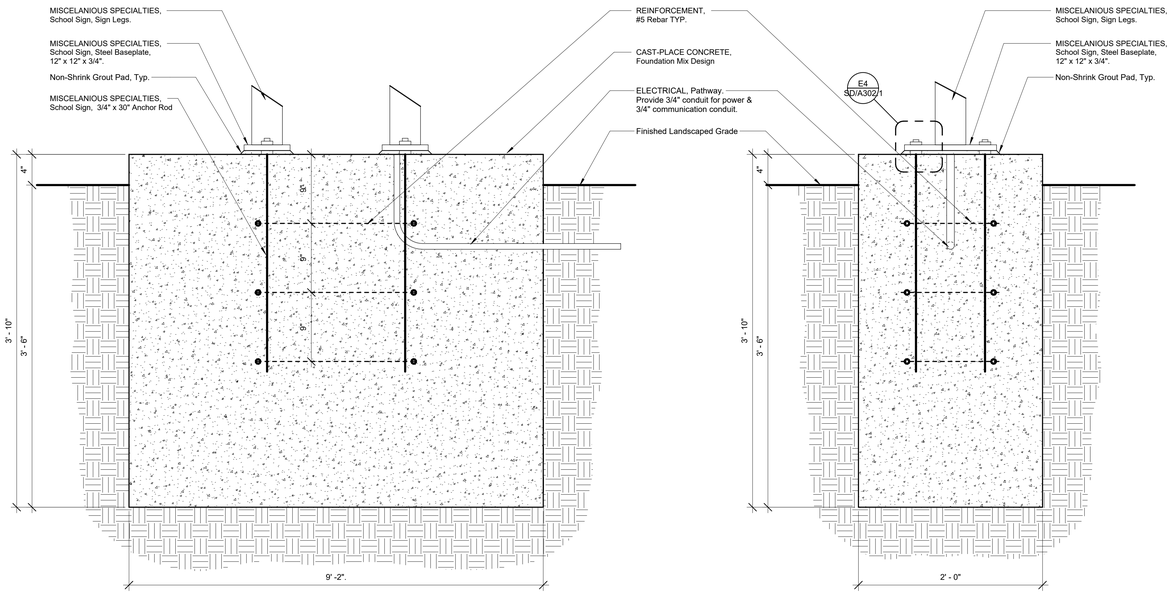
Marquee Sign is Exempt from DSA Structural Safety Appoval per DSA IR A-22



A1 — MISCELLANEOUS SPECIALTIES, Display Marquee Sign Baseplate Details

3" = 1'-0"

Marquee Sign is Exempt from DSA Structural Safety Appoval per DSA IR A-22



NOTE:
3,000 psi Concrete: Less Than 1.18 Cubic Yards Needed
Windload: Design Meets or Exceeds 120 mph Exposure B

A7 — MISCELLANEOUS SPECIALTIES, Display Marquee Sign Cross Section Details

1 1/2" = 1'-0"

Marquee Sign is Exempt from DSA Structural Safety Appoval per DSA IR A-22

DSA File No.: *15-95*

DSA Application No.: *03-122615*

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Agency Approval

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
SCHOOL SIGN - ALTERNATE BID NO. 2

Drawing

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LICENSED ARCHITECT
MICHAEL K. FERNACY
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2023 Darden Architects
Scale:	As indicated	Drawn By: KX	SD/A302.1
Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

6/6/2023 8:00:18 AM
C:\Users\Kennethx\Documents\2228_Warren_JHS_Mod_Phase_1_MASTER_V23_kennethxM8EKW.rvt

LEGEND

1. Fabric
2. Post, Line
3. Post, Terminal
4. Post, Gate
5. Rails, Top
6. Rails, Horizontal
7. Rails, Braces
8. Rails, Bottom
9. Tension Wire
10. Hook Bolts
11. Tie Wires
12. Hog Rings
13. Tension Bar
14. Tension Bands
15. Truss Rod Assembly
16. Fittings, Post Cap, Line
17. Fittings, Post Cap, Terminal
18. Fittings, Rail End
19. Fittings, Brace End
20. Fittings, Top Rail Sleeves
21. Gates, Frame
22. Gates, Hardware, Hinges
23. Gates, Hardware, Leaf Latch
24. Gates, Hardware, Double Leaf Latch
25. Gates, Hardware, Stop
26. Gates, Hardware, Keeper
27. Gates, Hardware, ADA Lock
28. Gates, Hardware, Exit Door
29. Gates, Hardware, ADA Kick Plate
30. Pipe Track and Bracket
31. Roller Assembly
32. Wheel Assembly
33. Steel Angle Track
34. Guide Post

CHAIN LINK POST AND FOOTING SCHEDULE

MAX. FENCE HEIGHT	LINE POSTS		TERMINAL POSTS	
	POST	FOOTING	POST	FOOTING
4'-0"	2-3/8" O.D.	12" dia. x 2'-0" D.	2-7/8" O.D.	12" dia. x 2'-6" D.
6'-0"	2-7/8" O.D.	14" dia. x 2'-6" D.	3-1/2" O.D.	14" dia. x 3'-0" D.
8'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	3-1/2" O.D.	14" dia. x 3'-6" D.
10'-0"	3-1/2" O.D.	16" dia. x 3'-6" D.	4" O.D.	16" dia. x 4'-0" D.
12'-0"	3-1/2" O.D.	16" dia. x 4'-0" D.	4" O.D.	16" dia. x 4'-6" D.
14'-0"	3-1/2" O.D.	16" dia. x 4'-6" D.	4" O.D.	16" dia. x 5'-0" D.
16'-0"	4" O.D.	16" dia. x 5'-0" D.	4-1/2" O.D.	16" dia. x 5'-6" D.
18'-0"	4" O.D.	16" dia. x 5'-6" D.	4-1/2" O.D.	16" dia. x 6'-0" D.
20'-0"	4-1/2" O.D.	18" dia. x 6'-0" D.	5-9/16" O.D.	16" dia. x 6'-6" D.

Post and footing sizes are minimal unless specifically detailed and noted otherwise.

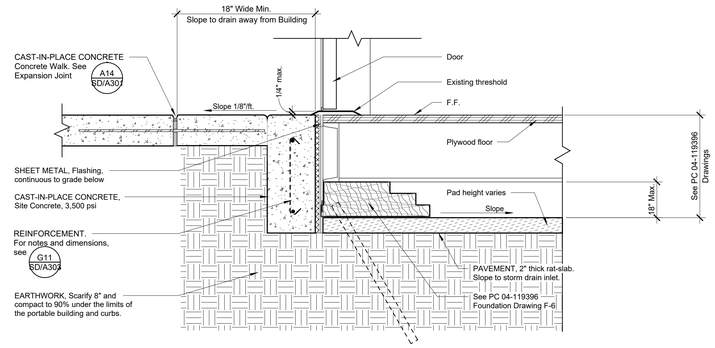
CHAIN LINK GATE POST AND FOOTING SCHEDULE

MAX. GATE LEAF WIDTH	6'-0" MAX. GATE HEIGHT		8'-0" MAX. GATE HEIGHT	
	GATE POST	POST FOOTINGS	GATE POST	POST FOOTINGS
4'-0"	2-3/8" O.D.	14" dia. x 2'-6" D.	2-7/8" O.D.	14" dia. x 3'-0" D.
6'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	2-7/8" O.D.	14" dia. x 3'-0" D.
8'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	4" O.D.	16" dia. x 3'-0" D.
10'-0"	2-7/8" O.D.	14" dia. x 3'-0" D.	4" O.D.	16" dia. x 3'-0" D.
12'-0"	4" O.D.	16" dia. x 3'-0" D.	4" O.D.	16" dia. x 3'-0" D.
14'-0"	4" O.D.	16" dia. x 3'-0" D.	6-5/8" O.D.	20" dia. x 3'-6" D.
16'-0"	4" O.D.	16" dia. x 3'-0" D.	6-5/8" O.D.	20" dia. x 3'-6" D.
18'-0"	4" O.D.	16" dia. x 3'-0" D.	6-5/8" O.D.	20" dia. x 3'-6" D.
20'-0"	----	----	8-5/8" O.D.	26" dia. x 4'-0" D.

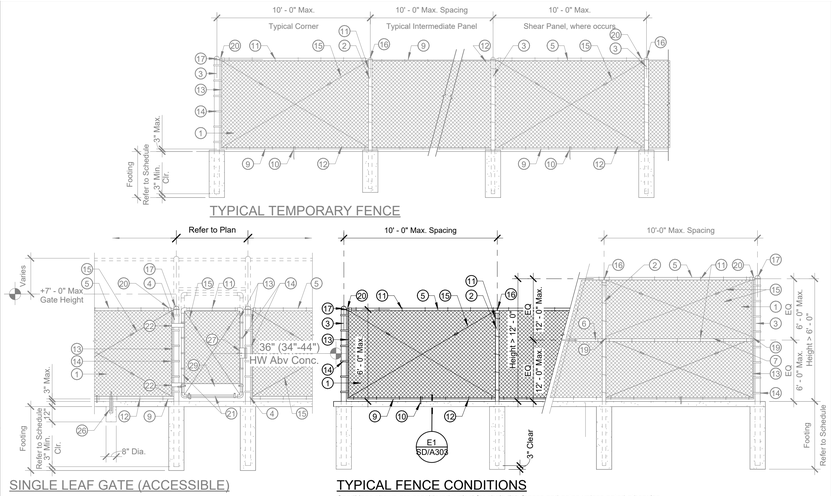
Gate posts and footing sizes are minimum. When terminal posts are greater than gate posts, use terminal post and footing sizes for gate posts

NOTE: *"Open Mesh Fences" per California Administrative Code Sec. 4-314 are exempt from DSA review. DSA IR A-22, Item 12 "Open Mesh Fences", requires only DSA Access review and approval for gates and access.*

N4 — CHAIN LINK, Legend and Schedules
1/4" = 1'-0"



N11 — CAST-IN-PLACE CONCRETE, Threshold Section
1 1/2" = 1'-0"

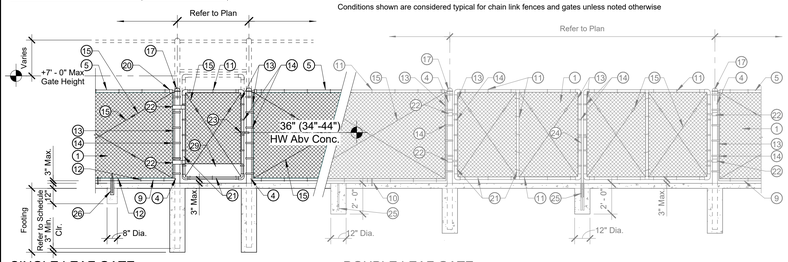


TYPICAL TEMPORARY FENCE

SINGLE LEAF GATE (ACCESSIBLE)

TYPICAL FENCE CONDITIONS

Conditions shown are considered typical for chain link fences and gates unless noted otherwise

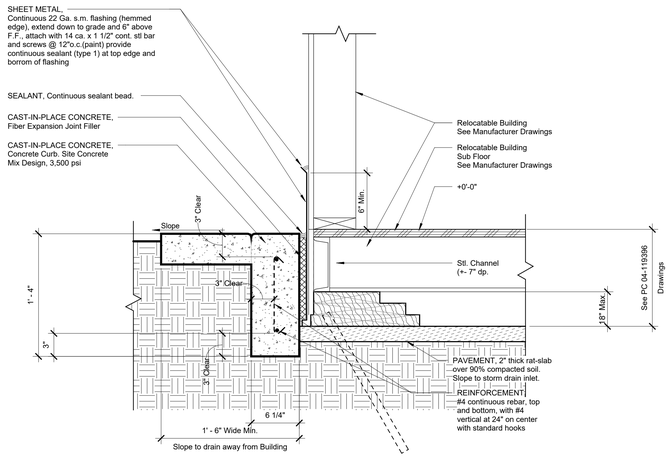


SINGLE LEAF GATE

DOUBLE LEAF GATE

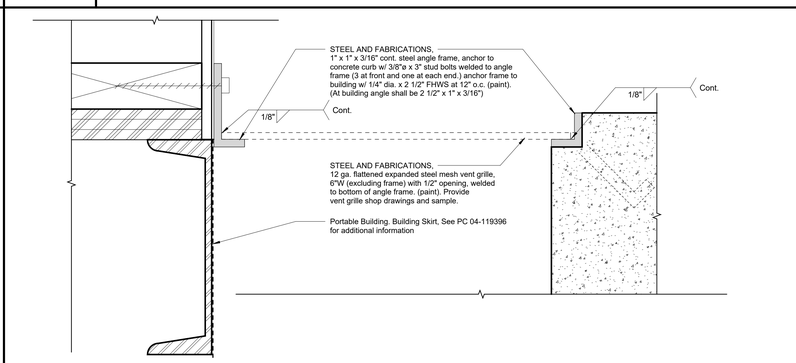
NOTE: "Open Mesh Fences" per California Administrative Code Sec. 4-314 are exempt from DSA review. DSA IR A-22, Item 12 "Open Mesh Fences", requires only DSA Access review and approval for gates and access.

E4 — CHAIN LINK, Typical Gate and Fence Conditions
1/4" = 1'-0"

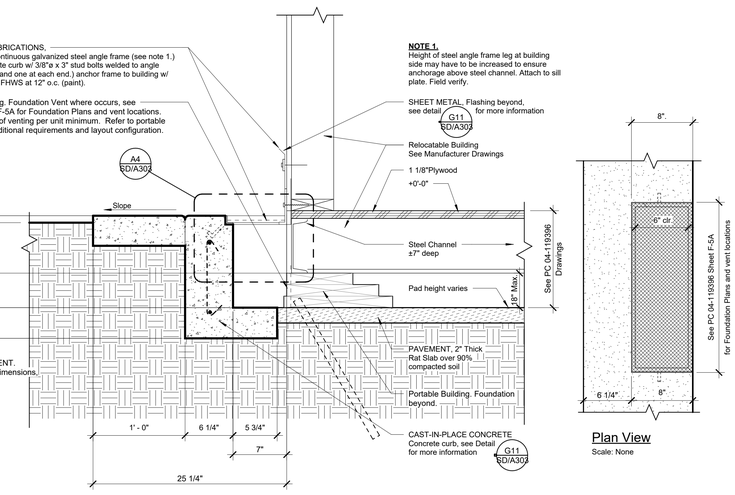


G11 — CAST-IN-PLACE CONCRETE, Concrete Curb
1 1/2" = 1'-0"

E1 — CHAIN LINK, Footing and Mowstrip
1 1/2" = 1'-0"



A4 — PORTABLE BUILING, Vent Detail
6" = 1'-0"



Plan View
Scale: None

A11 — CAST-IN-PLACE CONCRETE, Curb with Vent Grille
1 1/2" = 1'-0"

DSA File No.: *15-95*

DSA Application No.: *03-122615*

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Agency Approval

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
CHAIN LINK FENCE & PORTABLE DETAILS

Drawing

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LICENSED ARCHITECT — REGISTERED K. F. HOVDEN — No. C23724 — Exp. 4-30-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

SD/A303

7 28

6/6/2023 8:00:22 AM
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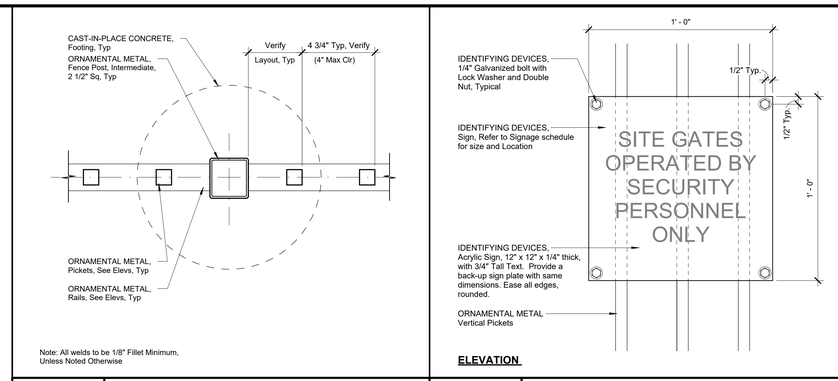
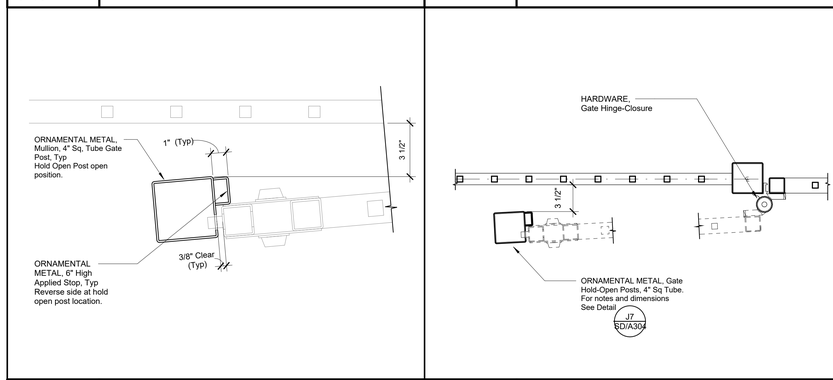


N7	ORNAMENTAL METAL, Fence Post Plan
3" = 1'-0"	

N11	IDENTIFYING DEVICES, Sign on Fence
3" = 1'-0"	

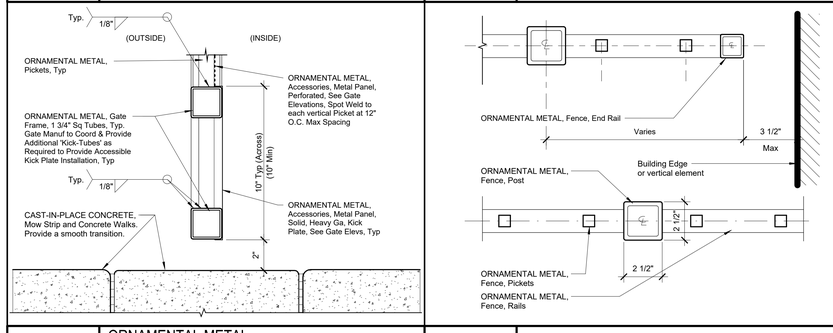
N14	ORNAMENTAL METAL, Removable Post
3" = 1'-0"	



J7	ORNAMENTAL METAL, Sinle-Leaf Gate Strike Post Plan
3" = 1'-0"	

J11	ORNAMENTAL METAL, Gate Hold Open
1 1/2" = 1'-0"	

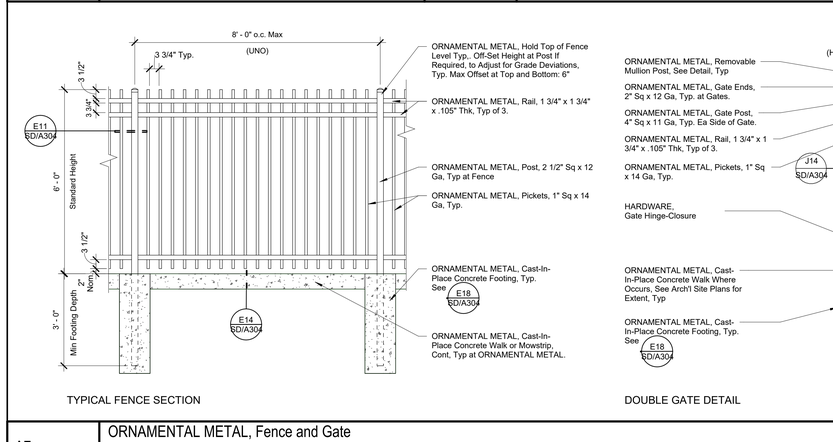
J14	ORNAMENTAL METAL, Double-Leaf Gate Strike Post Plan
3" = 1'-0"	



E7	ORNAMENTAL METAL, Sill Section - Typical
3" = 1'-0"	

E11	ORNAMENTAL METAL, Plan Section
3" = 1'-0"	

E14	CAST-IN-PLACE CONCRETE, Mow Strip
1 1/2" = 1'-0"	



A7	ORNAMENTAL METAL, Fence and Gate Elevations
1/2" = 1'-0"	

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15-95

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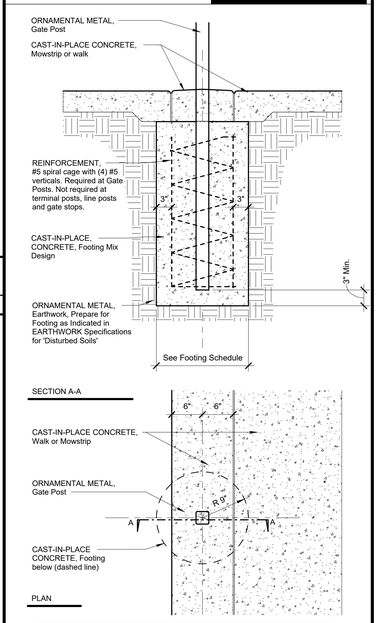


POST AND FOOTING SCHEDULE	
LOCATION	POST FOOTING
3' - 4' Wide Gate	18" diameter x 4' - 6" deep
3' - 5' to 4' - 0" Wide Gate	24" diameter x 4' - 6" deep
Vehicle Gate, 20 Feet Max	24" diameter x 5' - 0" deep
Terminal or Line Post or Gate Stop	14" diameter x 3' - 6" deep

ORNAMENTAL METAL SCHEDULE	
Gate Frame Ends (Vertical)	2" x 2" x 12 ga.
Gate Frame Rails (Horizontal)	1 3/4" Square x 14 ga.
Fence Rails	1 3/4" x 1 3/4" x 12 ga.
Pickets	1" x 1" x 14 ga.
Fence Post	2 1/2" x 2 1/2" x 12 ga.
Gate Post	4" x 4" x 11 ga.
Gate Fence Stop	2" x 2" x 11 ga.
Post Cap	1/8" Plate

Notes:

1. All welds shall be grinded, smoothed and prepped for primer and paint
2. All defective material shall be removed and replaced

E18	CAST-IN-PLACE, Fence Concrete Pier Reinforcement
1" = 1'-0"	

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
ORNAMENTAL METAL FENCE & GATES DETAILS

Drawing

darden architects
ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
LICENSED ARCHITECT MICHAEL K. FRANCIS No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

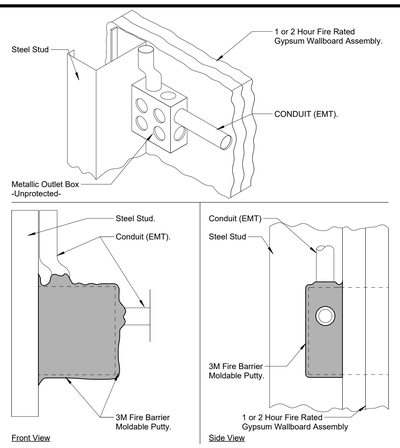
Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: MF	SD/A304
Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

6/6/2023 8:00:25 AM
C:\Users\KennethxDocuments\2228_Warren_JHS_Mod_Phase_1_MASTER_V23_kennethxM8EKW.rvt



UL Online Certifications Directory CLIV.R9700
Wall-opening Protective Materials

3M COMPANY 3M FIRE PROTECTION PRODUCTS R9700
3M CENTER
ST PAUL, MN 55144 USA

Type MPP+ moldable putty pads for use with max 4-11/16 by 4-11/16 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 or 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. wide wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

Type MPP+ moldable putty pads for use with max 4-11/16 by 4-11/16 by 2 1/8 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel or plastic cover plates for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 5-1/2 in. wide wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with steel attachment brackets which offset box min 1/4 in. from stud. Putty pad to be affixed to the back and all four sides of the box. Boxes may be installed back-to-back within the stud cavity. When back-to-back boxes are interconnected, a ball of putty is to be installed to plug the open end of each electrical metallic tube or conduit within the outlet boxes.

Type MPP+ moldable putty pads for use with max 4 by 4 by 2-1/8 in. deep flush device UL Listed Metallic Outlet Boxes installed with plastic cover plates for use in 1 or 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. wide wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

Type MPP+ moldable putty pads for use with max 4 by 4 by 2-1/2 in. deep flush device UL Listed Metallic Outlet Boxes installed with steel cover plates for use in 1 or 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. wide steel studs and constructed as specified in the individual U400 or V400 Series Wall and Partition Designs in the fire Resistance Directory.

Type MPP+ moldable putty pads for use with max 14 by 4-1/2 by 2-1/2 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made of PVC and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory. Boxes installed with steel cover plates, for use in 1 or 2 hr rated gypsum board wall assemblies framed with min 3-1/2 in. wide wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory.

Type MPP+ moldable putty pads for use with max 4 by 3-1/4 by 3-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Thomas & Betts Corp., made of polycarbonate, Type 234 or made of phenolic, Type 1052 and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory. Boxes installed with steel cover plates. For use in 1 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. wide wood studs and constructed as specified in the individual U300 series Wall and Partition Designs in the Fire Resistance Directory.

Type MPP+ moldable putty pads for use with max 4 by 3-3/4 by 3 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Carlon Electrical Products, made of PVC and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance category in the Fire Resistance Directory. Boxes installed with plastic cover plates, for use in 1 hr rated gypsum board wall assemblies framed with min 3-1/2 in. wide wood studs and constructed as specified in the individual U300 Series Wall and Partition Designs in the Fire Resistance Directory.

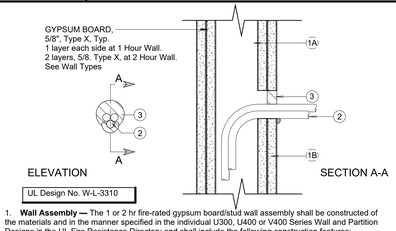
Type MPP+ moldable putty pads for use with max 4 by 3-1/4 by 3-3/4 in. deep UL Listed Nonmetallic Outlet Boxes manufactured by Thomas & Betts Corp., made of phenolic, Type 2002-738-C and bearing a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory. Boxes installed with steel cover plates. For use in 2 hr fire rated gypsum board wall assemblies framed with min 3-1/2 in. wide steel studs and constructed as specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory.

Type MPP+ moldable putty pads for use with max 4 by 4 by 1-1/2 in. deep flush device UL Listed Metallic Outlet Boxes installed with plastic cover plates for use in 1 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. wide steel studs and constructed as specified in the individual U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Boxes may be installed back-to-back within the stud cavity.

Type MPP+ moldable putty pads for use with max 5 by 5 by 2 7/8 in. deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communications-Circuit Accessories manufactured by Randl Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. wide wood or steel studs and constructed as specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc.

Moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud unless otherwise noted) including nailing tabs and to completely seal against the stud within the stud cavity. Multiple moldable putty pads may be installed on an outlet box to attain the required minimum thickness of putty material. Additional putty material used to seal around each conduit and/or cable fitting on the exterior of each box. A min 1/10 in. thickness of putty material is required on the exterior surfaces of flush device boxes in 1 and 2 hr fire rated Wall and Partition Designs. When the moldable putty pad outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. provided that the outlet boxes are not installed back to back, except as noted.

E4 | FIRE STOPPING, Putty Pad Detail
3" = 1'-0"

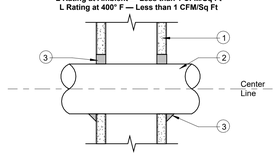


UL Design No. W-L-3310

1. **Wall Assembly —** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board - One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 3 in. (76 mm). The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly.
2. **Cables** - Max of three tightly bundled 3/C (with ground) No. 8 AWG bare copper ground metal clad cables with a PVC jacket. Annular space between cable bundle and periphery of opening shall be a min 0 in. (point contact) to a max 1 in. (25 mm). When FS-One sealant is used, max annular space is 1-1/2 in. (38 mm). Cables to be rigidly supported within 24 in. (610 mm) of wall assembly.
3. **Fill, Void or Cavity Material* - Sealant** - Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with surface of wall. Min 1/2 in. (13 mm) diam bead of sealant applied at point contact location.
HILTI INC - FS-ONE Sealant or CP 606 Sealant

A4 | FIRESTOPPING, UL Design No. W-L-3310
3" = 1'-0"

UL System No. W-L-1297
June 03, 2005
F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr
L Rating at Ambient — Less than 1 CFM/Sq Ft
L Rating at 400° F — Less than 1 CFM/Sq Ft



1. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.

   A. **Studs —** Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.

   B. **Gypsum Board* —** Nom 5/8 in. (16 mm) thick, 4 ft (1.22 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the Fire Resistance Directory. Max diam of opening is 32 in. (813 mm).

   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Through Penetrant —** One metallic pipe, conduit or tubing installed concentrically or eccentrically within the firestop system. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tube to be rigidly supported on both sides of wall assembly. The annular space between the pipe, conduit or tube and periphery of the opening shall be min 0 in (0 mm, point contact) to max 2 in. (51 mm) in 2 hr fire rated walls and min 0 in (0 mm, point contact) to max 1 in. (25 mm) in 1 hr fire rated walls. The following types and sizes of metallic pipes, conduit or tube may be used:
   A. **Steel Pipe —** Nom 30 in. (762 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
   B. **Iron Pipe —** Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Conduit —** Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or 6 in. diam steel conduit.
   D. **Copper Tube —** Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
   E. **Copper Pipe —** Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

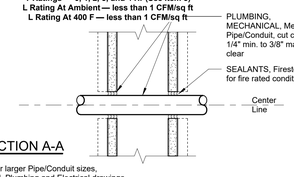
3. **Fill, Void or Cavity Material*-Sealant —** Min 5/8 in. (16 mm) or 1-1/4 in. (32 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall, for 1 hr and 2 hr fire rated wall assemblies, respectively. A min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe/wall interface at the point contact location.

HILTI CONSTRUCTION CHEMICALS, DIV OF

HILTI INC — CP606 Flexible Firestop Sealant

J7 | FIRESTOPPING Through Wall Penetration
UL System No. W-L-1297
3" = 1'-0"

System No. W-L-1001
June 15, 2005
F Ratings — 1, 2, 3 and 4 Hr (See Items 2 and 3)
T Ratings — 0, 1, 2, 3, and 4 Hr (See Item 3)
L Rating At Ambient— less than 1 CFM/sq ft
L Rating At 400 F — less than 1 CFM/sq ft



SECTION A-A

NOTE: For 1" or larger Pipe/Conduit sizes, see Mechanical, Plumbing and Electrical drawings.

1. **Wall Assembly —** The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. **Studs —** Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. (610 mm) OC.
B. **Gypsum Board* —** Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in.

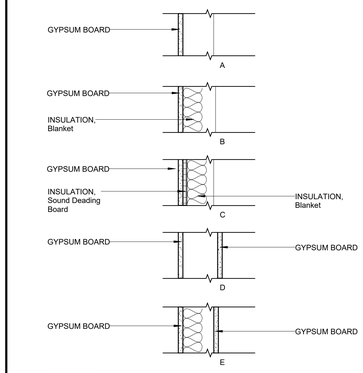
2. **Through-Penetrant —** One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. **Steel Pipe —** Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. **Iron Pipe —** Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
C. **Conduit —** Nom 6 in. diam (or smaller) steel conduit or nom 4 in diam (or smaller) steel electrical metallic tubing
D. **Copper Tubing —** Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing
E. **Copper Pipe —** Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
F. **Through Penetrating Product* —** Flexible Metal Piping The following types of steel flexible metal gas piping may be used:
1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
OMEGA FLEX INC
2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
GASTITE, DIV OF TITEFLEX
3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.
WARD MFG L L C
3. **Fill, Void or Cavity Material* — Caulk or Sealant —** Min 5/8 , 1-1/4,1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam In (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0+, 1 or 2
1 (25)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

+When copper pipe is used, T Rating is 0 h.

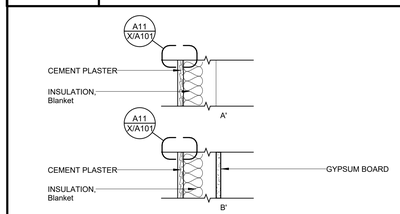
3M COMPANY — CP 25WB+ or FB-3000 WT.

A7 | FIRESTOPPING Through Wall Penetration
3" = 1'-0"



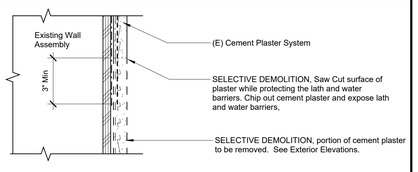
INTERIOR

M14 | Interior Wall Assembly
1 1/2" = 1'-0"

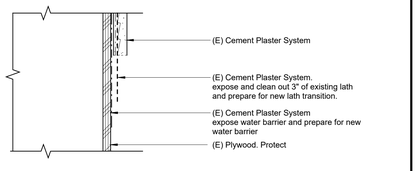


EXTERIOR

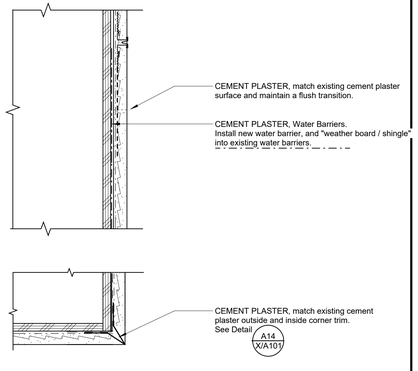
J14 | Exterior Wall Assembly
1 1/2" = 1'-0"



SELECTIVE DEMOLITION, Cutting of Cement Plaster

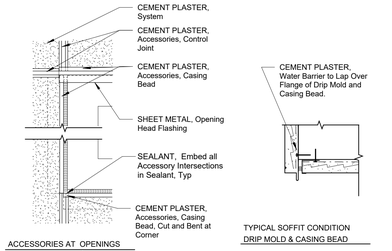


SELECTIVE DEMOLITION at existing cement plaster finish



CEMENT PLASTER, Patch Detail

A11 | CEMENT PLASTER, Cutting and Patching Detail
3" = 1'-0"

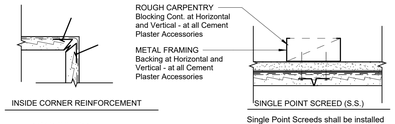


ACCESSORIES AT OPENINGS

TYPICAL SOFFIT CONDITION
DRIP MOLD & CASING BEAD

OUTSIDE CORNER REINFORCEMENT

REVEAL SCREED

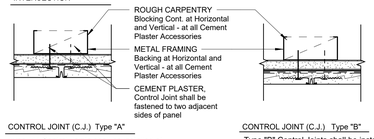


INSIDE CORNER REINFORCEMENT

SINGLE POINT SCREED (S.S.)

Single Point Screeds shall be installed where indicated or at locations where panel size exceeds specified size or proportions Single Point Screeds may be wire tied over Lath, backing is optional

CONTROL JOINT (C.J.) INTERSECTION



CONTROL JOINT (C.J.) Type "A"

Type "A" Control Joints shall be installed at locations indicated on the drawings to achieve the panel size and panel proportions as indicated in the Specifications

NOTES:
1. Water Barrier to be continuous behind Accessories
2. All splices in Accessories shall be sealed

CONTROL JOINT (C.J.) Type "B"

Type "B" Control Joints shall be installed as indicated on the drawings where the panel size and proportions has been achieved by Type "A" Control Joints. Type "B" Control Joints may be wire tied over Lath, backing is optional

A14 | CEMENT PLASTER , Accessories
3" = 1'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

NOTES

1. These Schedules are provided for the convenience of the Contractor. All conditions and dimensions shall be field verified prior to any fabrication.
2. The intent of these schedules is to indicate the various layers of materials which comprise the different Wall Assemblies.
3. Refer to the Exterior Elevations and Exterior Finish Schedule for additional Wall Covering and for Material Finishes.
4. Refer to the Interior Elevations and Interior Finish Schedule for additional Wall Coverings and for Material Finishes.
5. Where Ceramic Tile Systems are designated, refer to the Finish Schedule and Specification Section for the appropriate Ceramic Tile System.
6. Provide a continuous Thermal Blanket Insulation at all walls and roof structure, which is being exposed and modernized with new finishes.
7. Refer to Structural Drawings for Wood Framing Details, Infill Framing Details, and Ceiling Joist details
8. Refer to the Floor Plans for Walls that are Designated to be Rated Assemblies.
9. Where new Electrical and Fire Alarm Cables / Pathway penetrate fire rated walls and ceilings, refer to Specification Sation 078400 – FIRESTOPPING and Details A4/X/A101, A7/X/A101, E4/X/A101, J7/X/A101

WALL ASSEMBLY SYMBOLS

Nominal Stud Depth — -#.X- — Wall Assemblies
Location — -X.X- — Stud Material

DEFINITIONS
LOCATION
E = Exterior
I = Interior
A = Acoustical

STUD MATERIAL
W = Wood

NOMINAL STUD DEPTH

	WOOD
4 =	3 1/2"
6 =	5 1/2"
8 =	7 1/2"
10 =	9 1/4"

Note:
1) See the Structural Plans for the stud thinkness and spacing.
2) See the Structural Plans for the connection details.

J18 | Typical Wall Assemblies Legend
No scale

Earl Warren Junior High School Modernization Phase I
Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

TYPICAL INFORMATION
WALL ASSEMBLIES
Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
LICENSED ARCHITECT MICHAEL K. FENTON No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

Copyright 2023 Darden Architects

Scale: As indicated
Project Number: 2228
Date: 3/20/2022

X/A101

5/26/2023 1:58:40 PM
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Interior Finish Schedule

Building	Room Number	Room Name	Floor Finishes: CAST-IN-PLACE CONCRETE, Concrete Slab,	CARPET, Broadloom (BL-1)	CARPET, Walk-off (BL-2)	RESILIENT SHEET, Vinyl Sheet	CONCRETE, Polished Concrete Finishing	Base Finishes: RESILIENT BASE AND ACCESSORIES, Rubber Wall Base, 4" (RB-1)	RESILIENT SHEET, Integral Base, Type RS-1	RESILIENT BASE AND ACCESSORIES, Sculptured Rubber Base (RB-2)		Wall Finishes: GYPSUM BOARD, Wallboard, (Texture GB-1)	GYPSUM BOARD, Wallboard, (Texture GB-2)	GYPSUM BOARD, Water Resistant, (Texture GB-2)	TILE, Ceramic Tile, SYS-IWD (WR Gyp Bd - Thin Set).	WALL COVERINGS, Vinyl Covered Tackboard over Gypsum Board (GB-3)		Ceiling Finishes: ACOUSTICAL CEILINGS, Suspension System,	GYPSUM BOARD, Wallboard (Texture GB-2),		Miscellanous Finishes: STEEL AND FABRICATIONS, (Exposed to view)	SHEET METAL, All Items Exposed to View,	METAL DOORS AND FRAMES, Doors, Panels and Frames	WOOD DOORS,	MECHANICAL, All Items Exposed to View (Grilles, Ducts Etc.),	PLUMBING, Piping Exposed to View, etc.	ELECTRICAL, All Items Exposed to View, Conduits, etc.	Storefront	Remarks
	A-8	Administration	-	-	-	-	GL-5/GGL-II	-	-	FF		-	DW-5	-	-	-		-	DW-5				-	-	M-2			FF	
	A-9	Public Lobby	-	-	FF	-	GL-5/GGL-II	-	-	FF		-	DW-5	-	-	-		-	DW-5				M-2	-	M-2			FF	
	A-10	Student Lobby	-	-	FF	-	GL-5/GGL-II	-	-	FF		-	DW-5	-	-	-		-	DW-5				-	-	M-2			FF	
	B-1	Break Room	-	FF	FF	-	-	FF	-	-		-	DW-5	-	-	FF		ACT-VIII	-				-	-	-			FF	
	B-2	Small Conference Room	-	FF	FF	-	-	FF	-	-		-	DW-5	-	-	FF		ACT-i	-				-	-	-			FF	
	B-3	Water Heater	CFS	-	-	-	-	FF	-	-		-	-	DW-5	-	-		-	DW-5				M-2	-	-			-	
	B-4	All-Gender	-	-	-	FF	-	-	FF			-	-	-	CT-2, 3	-		-	DW-5				M-2	FF	-			-	
	B-5	All-Gender	-	-	-	FF	-	-	FF			-	-	-	CT-2,3	-		-	DW-5				M-2	FF	-			-	
	B-6	Vestibule	-	-	-	-	GL-5/GGL-II	FF		-		-	DW-5	-	-	-		-	DW-5				M-2	-	-			-	

J1 — Interior Finish Schedule

No Scale — Refer to J18 for Notes

SITE DEVELOPMENT

MATERIAL	FINISH	REMARKS
PAVEMENT		
Asphalt Concrete	Slurry Seal	
Striping and Markings	X-1	
Wheelstops	Natural Cast Concrete	
CAST-IN-PLACE CONCRETE		
Curbs, Curb and Gutters, Mowstrips, Aprons, Valley Gutter, Housekeeping Pads, Site Light Pole Bases	Natural Cast Concrete	
Walks, Platforms, Steps, Ramps	Broom Finish	
Architectural Signs and Plaques, Landscape Furnishing, etc.	Light Sand Blast	
Precast Benches	Natural Cast Concrete	
SHEET METAL		
Miscellaneous Flashings, Fence Parapet Caps	EM-2	
HARDWARE		
Steel Gates, Hinges, Hasps, Cane Bolts, etc.	EM-2	
Chain Link Gates, Hinges, Hasps, Cane Bolts, etc.	Galvanize	
Ornamental Gates, Hinges, Hasps, Cane Bolts, etc.	EM-2	
ORNAMENTAL METAL		
Fence, Gates, Accessories	F.F.	Black
Gate Hardware	F.F.	Black

BUILDINGS

MATERIAL	FINISH	REMARKS
SHEET METAL		
Architectural	EM-2	Exposed to all Viewing Angles
Utility	Galvanized	
GLASS		
Insulated Glazing Panels	F.F.	
STOREFRONT		
Doors, Frames, Flashing and Accessories	F.F.	
METAL DOORS AND FRAMES		
Doors, Panels, Frames and Louvers	EM-2	
CEMENT PLASTER		
Cement Plaster	EP-6	2
Metal Accessories	EP-6	
Accessories, Special Trim Shape	F.F.	
PLUMBING		
Drinking Fountains	F.F.	
MECHANICAL		
Exhaust Fans, Vent Stacks, Mechanical Units, & Misc.... Equipment	F.F	
ELECTRICAL		
Exposed to View Conduits	EM-2	
Switchgear, Transformer, Light Fixtures, Fire Alarm Devices, Speakers.	F.F.	

A1 — Exterior Finish Schedule

NO SCALE — Refer to A14 for Notes

ABBREVIATIONS:

F.F. = Factory Finish

Exterior Paint Finishes:
Refer to Specification Section - PAINTING
ECB-x = Concrete or Concrete Masonry Units
X-x = Specialty Finish
EM-x = Exterior Metal Finish
EW-x = Exterior Wood Finish
EP-x = Cement Plaster

NOTES:

1. Refer to Appropriate Specification Sections for Materials and Systems.
2. All Details. Material and Finishes Shall be Considered "Typical" for all Similar Conditions Unless Noted Otherwise.
3. Refer to Exterior Elevations for extent of materials and finishes, Includes Backs of Parapets, Typical.

REMARKS

1 Do not paint Mechanical Units Condensing Coils and Name Plates.

2 BASE BID: Buildings I-1 and I-5
All interior and exterior surfaces to be repainted as part of the Base Bid. If the Alternate Bid is Awarded, the scope of the Painting shall be adjusted for the Alternate Bid work.

COLORS
District Standard Colors for Exterior Painting at Warren

USE	COLOR	NAME	BRAND
Exterior & Interior Doors	72BB07 /288	Phantom Blue	Sherwin-Williams
Exterior/Interior Walls (Body)	40YY 72/164	Country Cream	
Exterior Trim/Fascia	72BB07 /288	Phantom Blue	Sherwin-Williams
Ramps	72BB07 /288	Phantom Blue	Sherwin-Williams
Handrails	72BB07 /288	Phantom Blue	Sherwin-Williams

A14 — Ext. Fin. Schedule Legend

No Scale

DSA File No.: *15-95*

DSA Application No.: *03-122615*

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APP: 03-122615 INC:
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DATE: 07/20/2023
Agency Approval

ABBREVIATIONS

AESS = Architectural Exposed Structural Steel
AFP = Acrylic Floor Finish
CCC = Clear Curing Compound
CFS = Clear Floor Sealer
CFH = Clear Floor Hardener
CWR = Colored Water Resistant Finish
CT# = Ceramic Tile Type
FF = Factory Finish
GL = Gloss Level
GGL = Grind Grade Level
GS = Grout Sealer
ACT# = Acoustic Ceiling Tile Type
RWF = Resilient Wood Floor
RF# = Resinous Floor Type
* = Refer To Remarks

Interior Paint Finishes:

Refer To Specification Section - PAINTING
CB# = Concrete or Concrete Masonry Units
DW# = Gypsum Board Finish
P# = Cement Plaster, Veneer Plaster or Gypsum Plaster Finish
M# = Metal Finish
W# = Woodwork Finish
X# = Special Finishes

NOTES

1. Refer to appropriate Specification Sections for Materials, Systems and Types.
2. All Details, Materials and Finishes shall be considered "Typical" for all similar conditions, Unless Otherwise Noted.
3. Do not paint Fire Rated Door and Frame Rating Plates.
4. Where changes in Floor Materials occur, refer to Detail E4/X/A401
5. Refer to Interior Elevations for additional information.
6. This Schedule is provided for the convenience of the Contractor. Field verify all conditions and dimensions prior to fabrication, installation or application.
7. See Interior Color Schedule for Finish / Material Colors.
8. Gypsum Board Textures indicated are for areas exposed to view. Areas above ceilings shall be GB5, Unless Otherwise Noted. Refer to Specifications for appropriate locations of other textures.
9. VAPOR-ALKALINITY CONTROL: Apply Vapor-Alkalinity Control Membrane System at all concrete slab areas scheduled to receive applied floor covering that are sensitive to and have requirements for limits of vapor transmission and pH levels."

REMARKS

1. PAINTING, Repaint existing interior surfaces.

J18 — Interior Finish Schedule Legend

No Scale

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

TYPICAL INFORMATION
INTERIOR & EXTERIOR FINISH SCHEDULE
Drawing

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LICENSED ARCHITECT MICHAEL K. FERRARO No. C23724 Exp. 4-30-24 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: SS
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

X/A201

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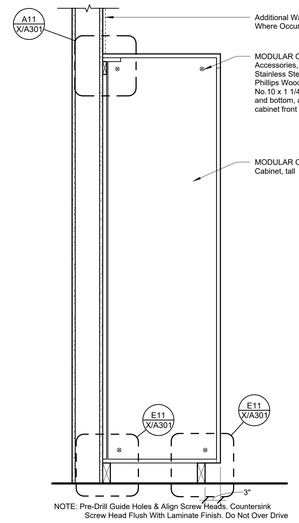
Casework Schedule

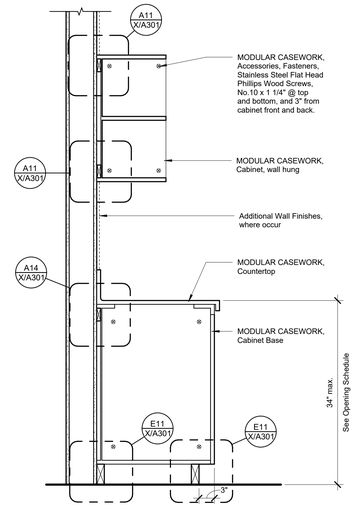
Building	Room No	Group No.	Description	Catalog No.	No Req'd	Length	Height	Depth	Remarks
A		a A-8	Base Cabinet w/ Drawers	223	1	1' - 3"	2' - 6"	2' - 0"	
A	A-8		Base Cabinet w/o Drawers	101	1	2' - 0"	2' - 6"	2' - 0"	
A	A-8	a A-8	Base Cabinet w/o Drawers	100	1	2' - 10"	2' - 6 1/2"	2' - 2"	
A	A-8	a A-8	Base Cabinet w/ Drawers	223	3	1' - 3"	2' - 6"	2' - 0"	
A	A-8	a A-8	Base Cabinet w/ Drawers	230	1	1' - 3"	2' - 6"	2' - 0"	
A	A-8	a A-8	Base Cabinet w/ Drawers	230	2	1' - 3"	2' - 6 1/2"	2' - 2"	
A	A-8	a A-8	Wall Hung Cabinet	302	2	3' - 0"	2' - 2"	1' - 2"	
A	A-8	a A-8	Custom Student Reception Counter		1				1
A	A-8	b A-8	Base Cabinet w/ Drawers	223	3	2' - 6"	2' - 6"	2' - 0"	
A	A-8	b A-8	Wall Hung Cabinet	301	1	1' - 6"	2' - 2"	1' - 2"	
A	A-8	b A-8	Wall Hung Cabinet	302	1	3' - 0"	2' - 2"	1' - 2"	
A	A-8	b A-8	Wall Hung Cabinet	312	1	3' - 0"	2' - 2"	1' - 2"	
A	A-8	b A-8	Counter Top		1				
A	A-8	c A-8	Base Cabinet w/o Drawers	100	1	2' - 1 1/2"	2' - 6 1/2"	2' - 0"	
A	A-8	c A-8	Base Cabinet w/o Drawers	101	1	2' - 0"	2' - 6"	2' - 0"	Cut out bottom for concrete safe base. See Detail
A	A-8	c A-8	Base Cabinet w/ Drawers	223	2	1' - 3"	2' - 6"	2' - 0"	
A	A-8	c A-8	Base Cabinet w/ Drawers	230	4	1' - 3"	2' - 6"	2' - 0"	
A	A-8	c A-8	Base Cabinet w/ Drawers	230	1	1' - 3"	2' - 6 1/2"	2' - 2"	
A	A-8	c A-8	Custom Public Reception Counter		1				2
B	B-1	a B-1	Base Cabinet w/ ADA Plumbing Cover	153M	1	3' - 0"	2' - 8 1/2"	1' - 11"	
B	B-1	a B-1	Base Cabinet w/ Drawers	222	1	2' - 6"	2' - 8 1/2"	2' - 0"	
B	B-1	a B-1	Base Cabinet w/ Drawers	222	3	3' - 0"	2' - 8 1/2"	2' - 0"	
B	B-1	a B-1	Wall Hung Cabinet	312	2	2' - 6"	2' - 2"	1' - 2"	
B	B-1	a B-1	Wall Hung Cabinet	312	2	3' - 0"	2' - 2"	1' - 2"	
B	B-1	a B-1	Counter Top		1		2' - 4 3/8"	2' - 0"	
B	B-6	a B-6	Tall Storage Cabinet	412	2	3' - 6"	7' - 0"	2' - 0"	

M1 — Casework Schedule
N.T.S.



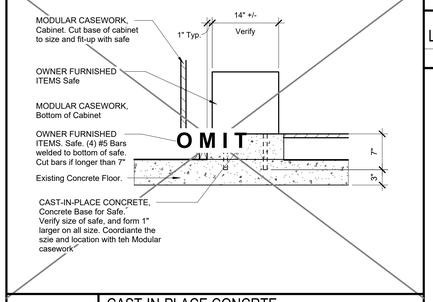
NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive

L11 — MODULAR CASEWORK, Cabinet, Tall
1" = 1'-0"

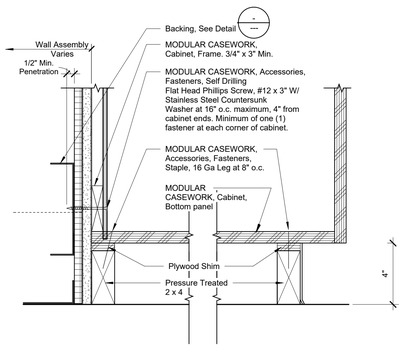


NOTE: Pre-Drill Guide Holes & Align Screw Heads. Countersink Screw Head Flush With Laminate Finish. Do Not Over Drive

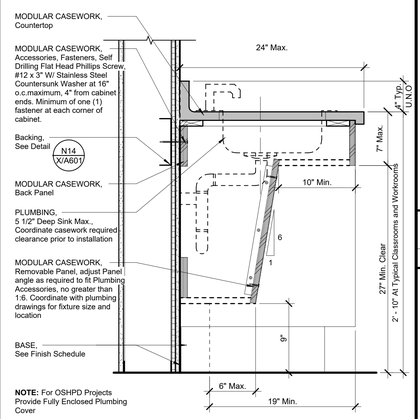
L14 — Modular Casework, Cabinet, Wall Hung & Base
1" = 1'-0"



J7 — CAST-IN-PLACE CONCRTE, Concrete Curb at Floor Safe
1" = 1'-0"

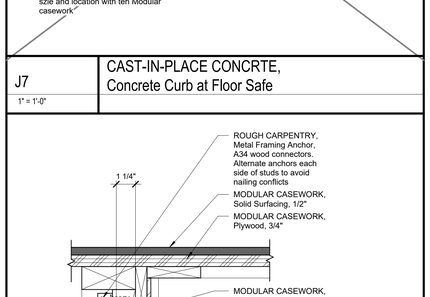


NOTE: Pre-Drill Guide Holes & Align Screws Heads. Do Not Over Drive

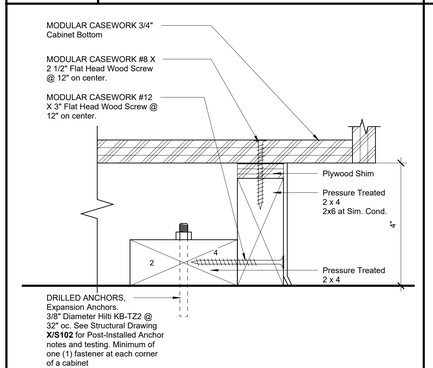


Condition at Wood Stud Wall

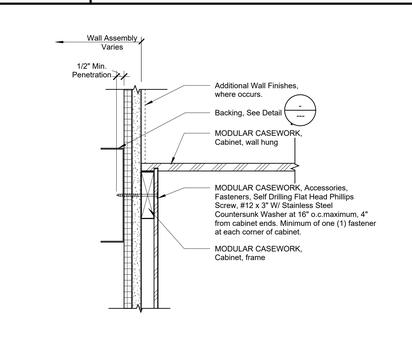
E14 — MODULAR CASEWORK, Cabinet Door, Accessible Sink Base
1 1/2" = 1'-0"



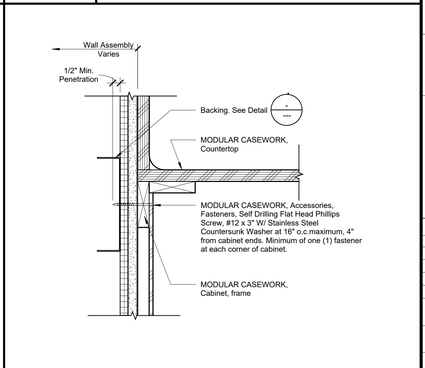
E7 — MODULAR CASEWORK, Base Cabinet Anchorage
3" = 1'-0"



A7 — MODULAR CASEWORK, Detail Cabinet Anchorage
6" = 1'-0"



A11 — MODULAR CASEWORK, Cabinet Wall Hung Anchorage
3" = 1'-0"



A14 — MODULAR CASEWORK, Cabinet Base Anchorage
3" = 1'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

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DATE: 07/20/2023
Agency Approval

TYPICAL NOTES

1. This schedule is provided for the convenience of the contractor. field verify all conditions and dimensions prior any fabrication
2. Schedule dimensions shall be considered nominal
3. See Sheet X/A301 for modular casework attachment and details.
4. All details, materials, and finishes shall be considered typical for all similar conditions unless noted otherwise.
5. W.I. Number cabinet designs with suffix "M" shall be modified as indicated or detailed.
6. Provide all filler pieces, scribe strips, flush panels and closures, matching modular cabinetwork, required to complete cabinetwork assemblies and close the finish surfaces.
7. Provide cabinet door and drawer locks at all cabinets unless noted otherwise.
8. All base cabinets, counters and desks shall have countertops constructed in accordance with the Architectural Woodwork Institute of Architectural Woodwork Standards, Section 11 for custom grade as modified by Specification Section 06 41 23, MODULAR CASEWORK, unless noted otherwise.

   P = premium grade
   E = economy grade
   C = custom grade
9. All cabinets shall be constructed in accordance with the Architectural Woodwork Institute of Architectural Woodwork Standards, Section 10 for custom grade as modified by Specification Section 06 41 23, MODULAR CASEWORK, unless noted otherwise.
10. All countertops shall be have 6" integral self coved Back and End Splashes, unless noted otherwise. Refer to interior elevations for splash heights which may vary in height. Align splashes with other materials, if shown to be aligned.
11. Base cabinet counter heights shall not exceed 34" in height, unless otherwise noted for undercounter equipment which requires at 36" counter height. In the event the interior elevations or cabinet schedule indicate a 36" counter height, the actual height shall be verified prior to and fabrication.
12. See MODULAR CASEWORK specification for shelves, typical.

REMARKS

1. MODULAR CASEWORK, Custom Student Reception Counter, see A10-X/A302
2. MODULAR CASEWORK, Custom Public Reception Counter, see A7-X/A304

H18 — MODULAR CASEWORK, Notes
No Scale

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

TYPICAL INFORMATION
MODULAR CASEWORK SCHEDULE AND DETAILS
Drawing

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LICENSED ARCHITECT MICHAEL K. FENNO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CB
Checked By: MF
Reviewed By: MF
Scale: As indicated
Project Number: 2228
Date: 3/20/2022

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X/A301

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DATE: 07/20/2023

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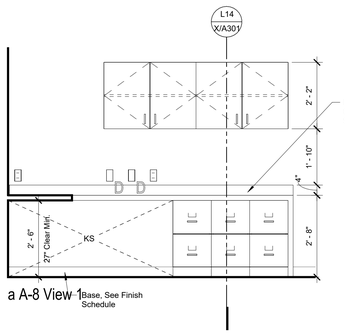
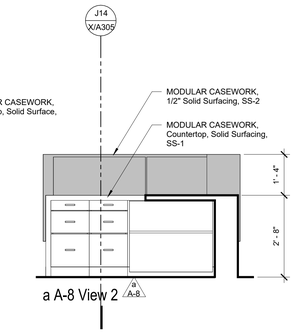


a A-8 View 1



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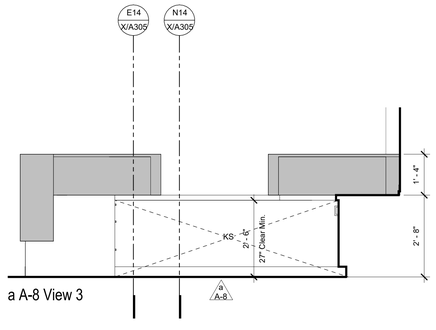

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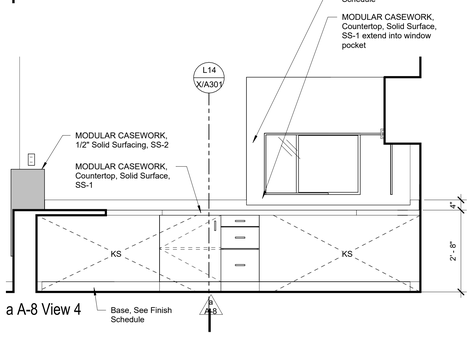

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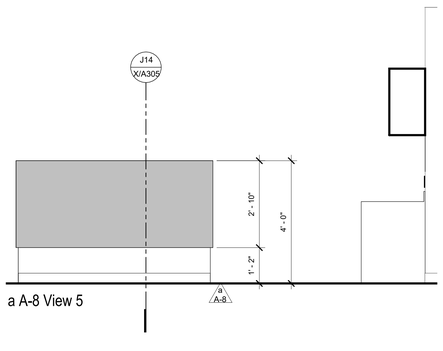
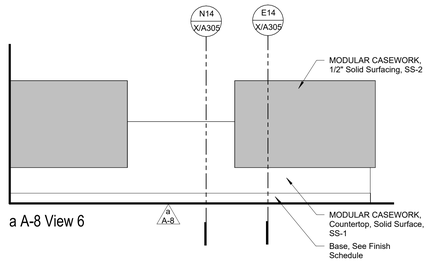
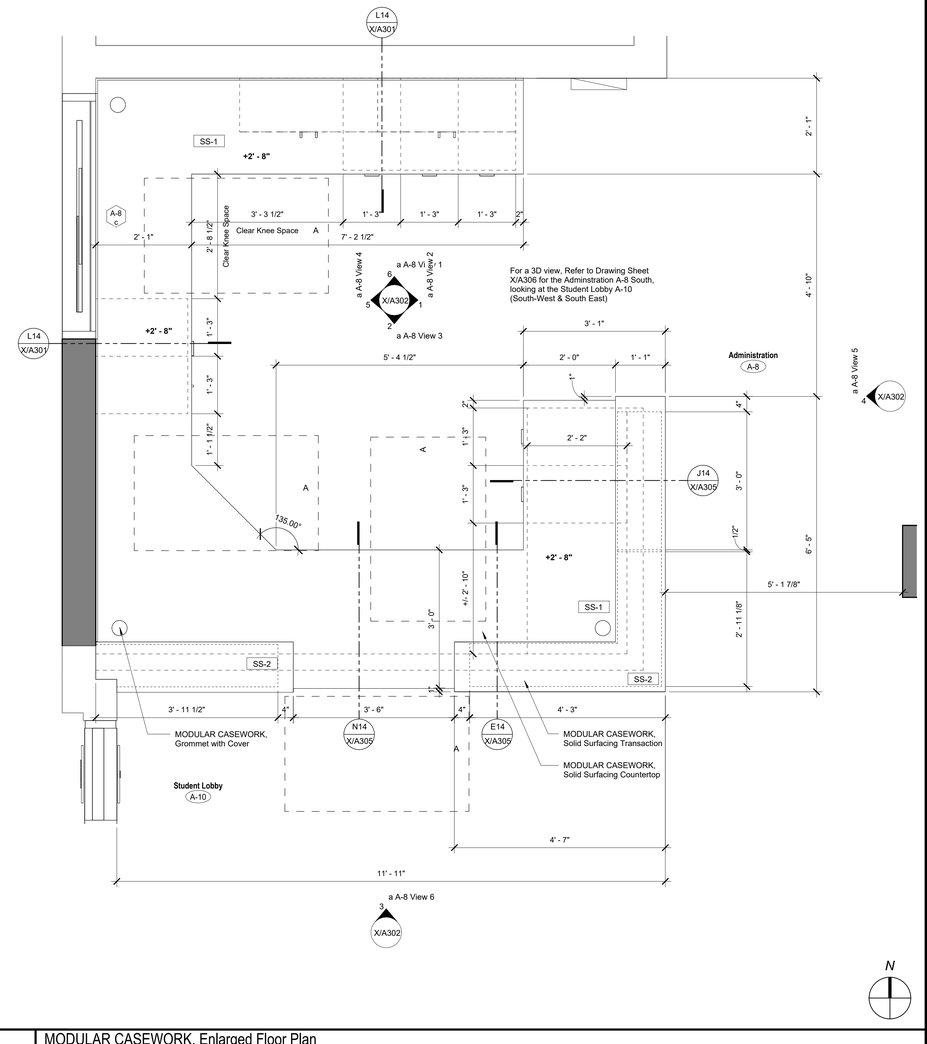


a A-8 View 5



a A-8 View 6



Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
CUSTOM CASEWORK- BUILDING A- a A-8

Drawing

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Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2023 Darden Architects
Scale:	As indicated	Drawn By: CB	X/A302
Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

A1 — Elevations a A-8
1/2" = 1' -0"

A10 — MODULAR CASEWORK, Enlarged Floor Plan a A-8
3/4" = 1'-0"

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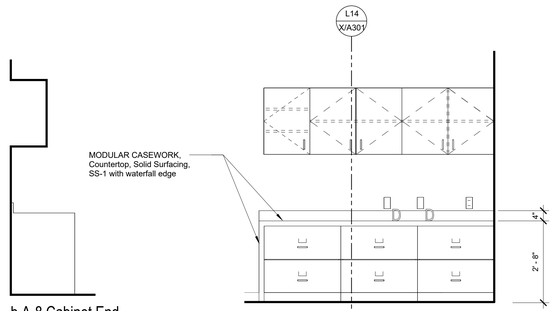
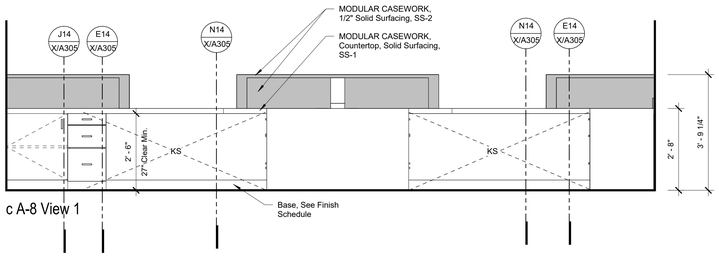


b A-8 Cabinet End

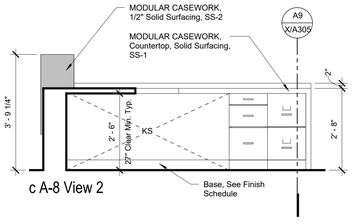
b A-8 Cabinet Front

See 3D view of Back Wall at Administration A-8.
See Drawing Sheet X/A306

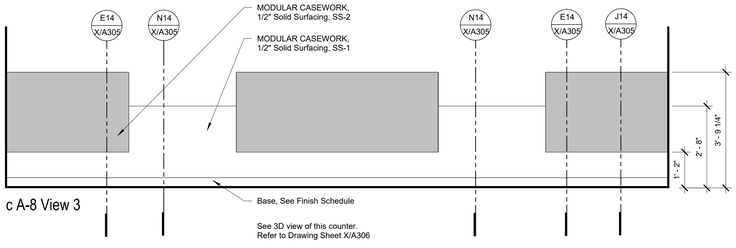
A1	Elevations b A-8
1/2" = 1'-0"	



c A-8 View 1

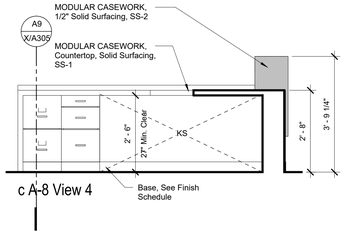


c A-8 View 2

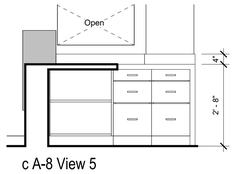


c A-8 View 3

See 3D view of this counter.
Refer to Drawing Sheet X/A306

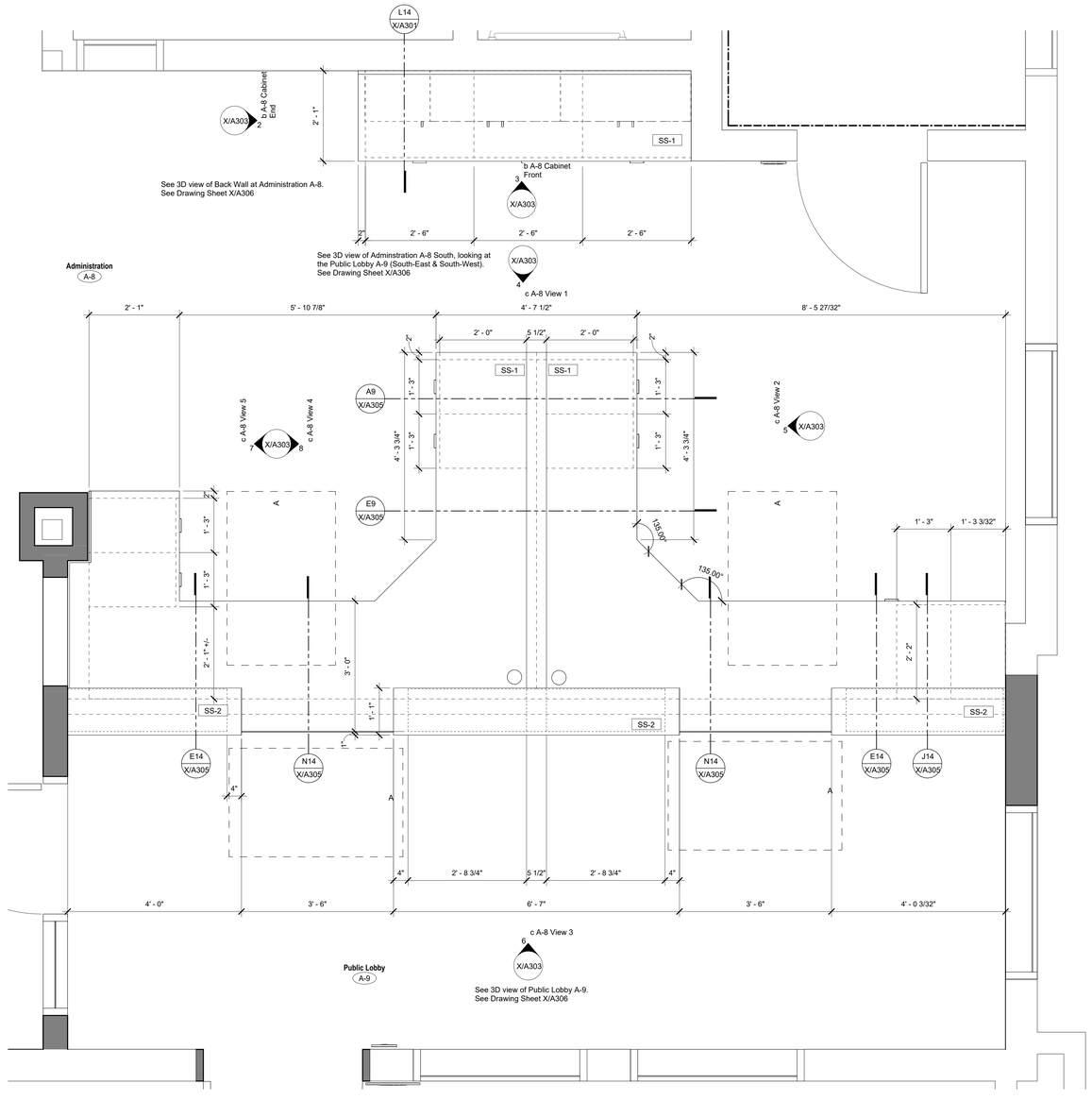


c A-8 View 4



c A-8 View 5

A1	Elevations c A-8
1/2" = 1'-0"	



A7	MODULAR CASEWORK, Enlarged Floor Plan
3/4" = 1'-0"	

DSA File No.:
15-95

DSA Application No.:
03-122615

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Agency Approval

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
CUSTOM CASEWORK- BUILDING A- b A-8 and c A-8

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LICENSED ARCHITECT
MICHAEL K. FENOLIO
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2023 Darden Architects
Scale:	As indicated	Drawn By: CB	X/A303
Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

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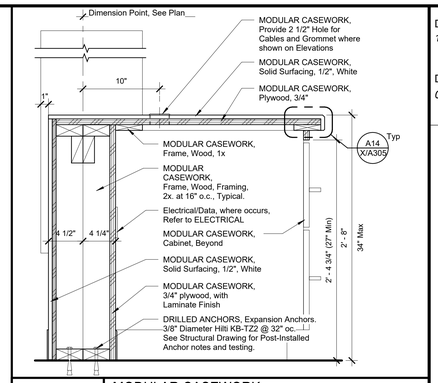
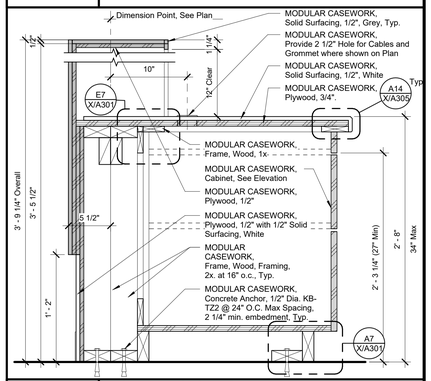


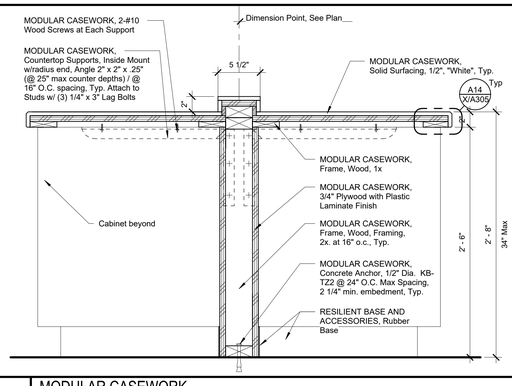
N14 — MODULAR CASEWORK, Detail, Knee Space

1 1/2" = 1'-0"



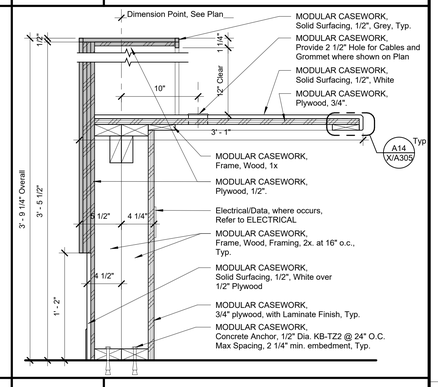
J14 — MODULAR CASEWORK, Detail, Base Cabinet

1 1/2" = 1'-0"



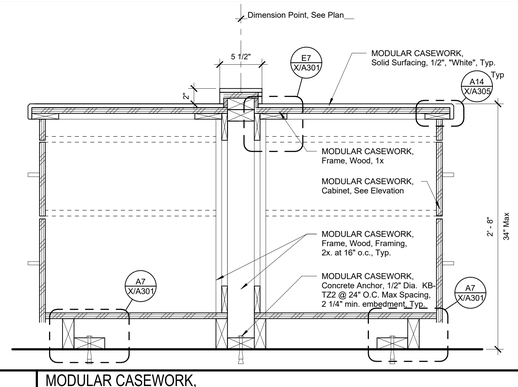
E9 — MODULAR CASEWORK, Detail, Base Cabinet Peninsula

1 1/2" = 1'-0"



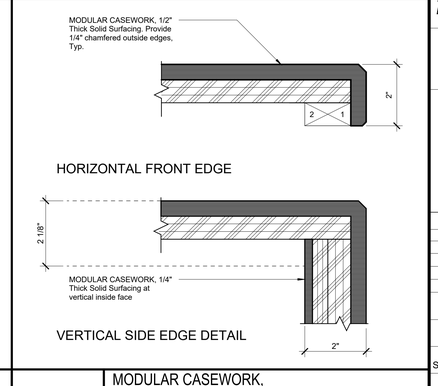
E14 — MODULAR CASEWORK, Detail, Knee Space

1 1/2" = 1'-0"



A9 — MODULAR CASEWORK, Detail, Base Cabinet Peninsula

1 1/2" = 1'-0"



A14 — MODULAR CASEWORK, Counter Edge Details

6" = 1'-0"

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Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

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CUSTOM CASEWORK DETAILS

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	
Scale: As indicated	Drawn By: CB	
Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

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X/A305

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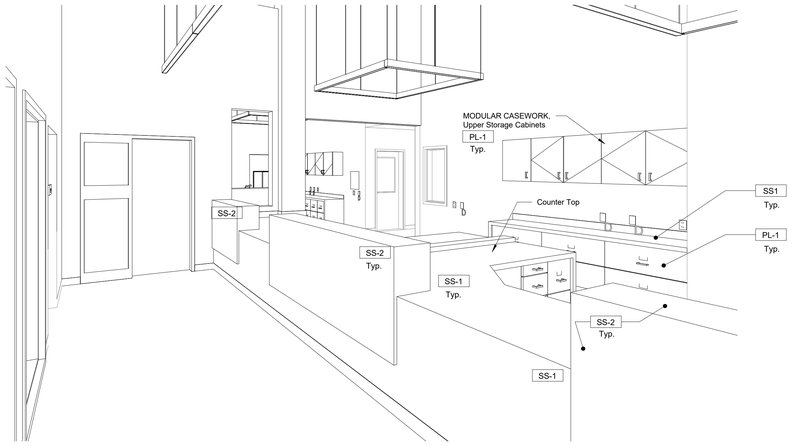
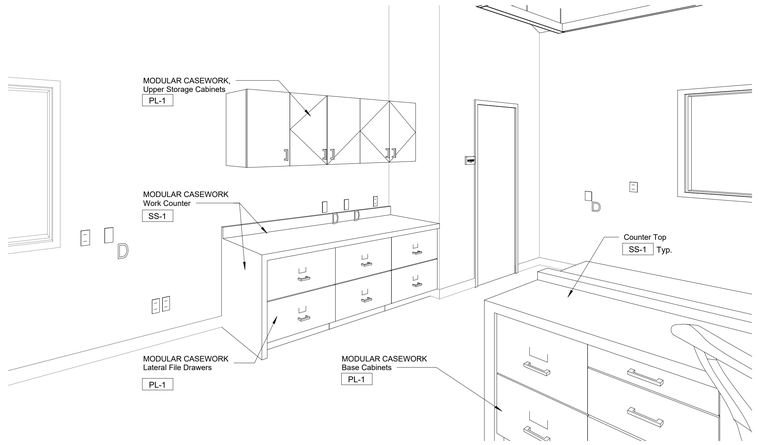
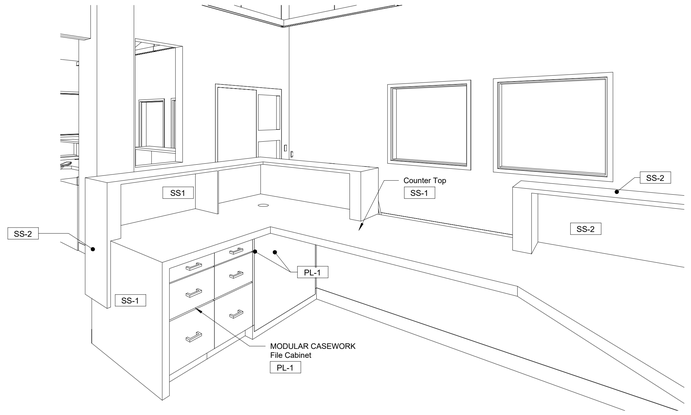


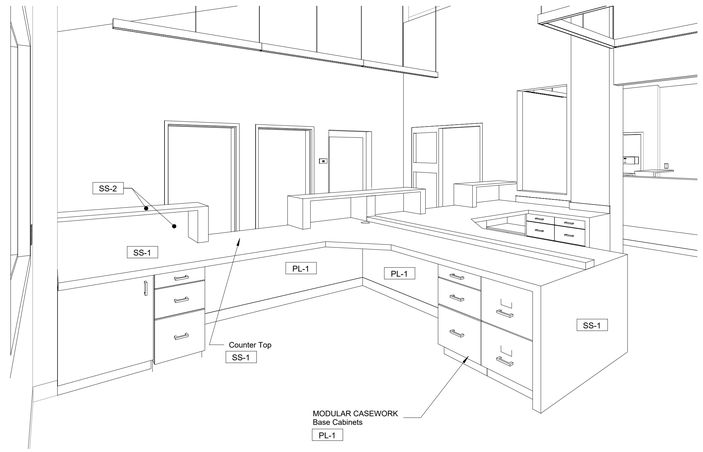
M1 Public Lobby A-9



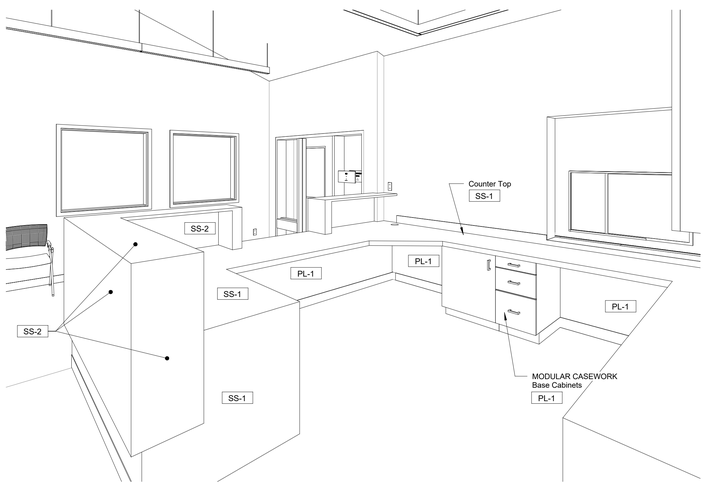
M9 Back Wall at Administration A-8



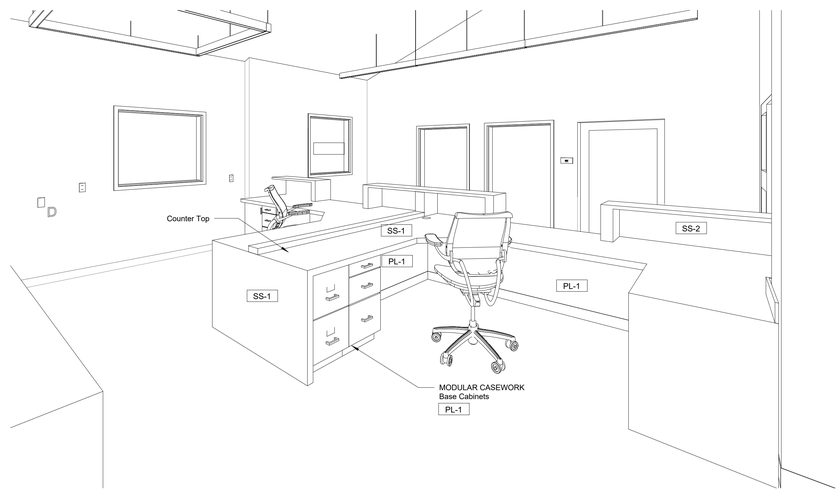
G1 Adminstration A-8 South, looking at the Student Lobby A-10 South-East



G9 Adminstration A-8 South, looking at the Public Lobby A-9 South-West



A1 Adminstration A-8 South, looking at the Student Lobby A-10 South-West



A9 Adminstration A-8 South, looking at the Public Lobby A-9 South-East

DSA File No.:
15-95

DSA Application No.:
03-122615

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Agency Approval

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

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BLDG A - 3D VIEWS

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LICENSED ARCHITECT
MICHAEL K. FERNACY
No. C23724
Ren. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright 2023 Darden Architects
Scale:	Drawn By: CC	X/A306
Project Number: 2228	Checked By: KX	
Date: 3/20/2022	Reviewed By: MF	

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Opening Schedule Door

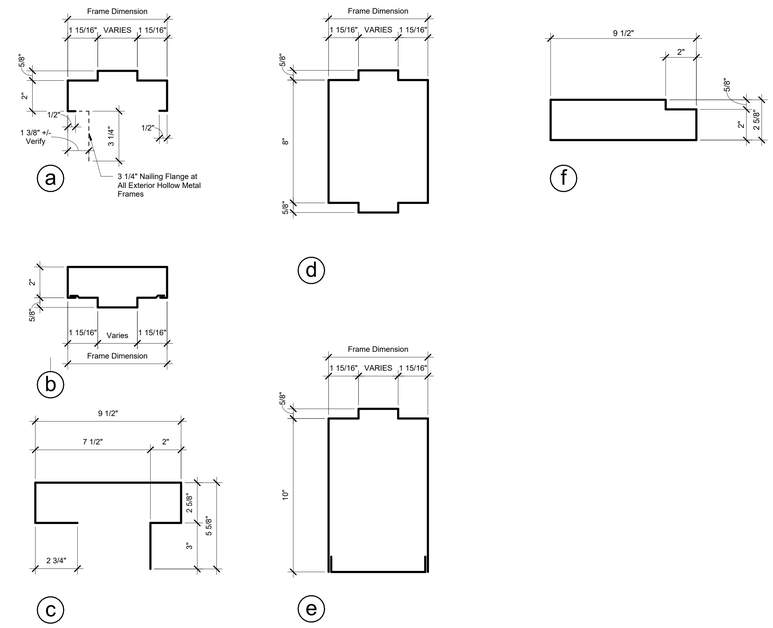
Building	Door No.	Frame Type	Size Width	Size Height	Size Thickness	Door Material	Door Type	Glass Type	Head	Jamb	Threshold	Hardware Group	Hardware Keying Room No	Comments
A	A-8 a	(E) HM	3' - 0"	7' - 0"	1 3/4"	WD	F		(E)	(E)	E7-X/A401			4
A	A-9 c	SF-1	3' - 8"	7' - 0"	2"	AL	1G	C2-2T	N14-X/A402	J14-X/A402	E7-X/A401	SH 1.0		
A	A-9 d	HM-2	3' - 0"	7' - 0"	1 3/4"	HM	FG	L-1	N11-X/A402	J11-X/A402	J8-X/A402	SH 2.0	A-9	3
A	A-10 c	(E) SF-4	6' - 0"	7' - 0"	1 3/4"	(E) SF	1G	(E)	(E)	(E)	E7-X/A401	99E		4
B	B-1 a	SF-1	3' - 0"	6' - 10"	2"	AL	1G	L-1	N14-X/A402	J14-X/A402	E-4-X/A401	70	B-6	3, 10
B	B-1 d	SF-1	3' - 8"	7' - 0"	2"	AL	1G	C2-2T	N14-X/A402	J14-X/A402	E7-X/A401	99E		
B	B-2 a	SF-1	3' - 8"	7' - 0"	2"	AL	1G	C2-2T	N14-X/A402	J14-X/A402	E7-X/A401	99E		
B	B-4 a	HM-1	3' - 0"	7' - 0"	1 3/4"	WD	F		N11-X/A402	J11-X/A402	E-4-X/A401	73	B-6	3
B	B-5 a	HM-1	3' - 0"	7' - 0"	1 3/4"	WD	F		N11-X/A402	J11-X/A402	E-4-X/A401	73	B-6	3
B	B-6 a	HM-2	3' - 0"	7' - 0"	1 3/4"	HM	FG		(E)	(E)	E7-X/A401	99E	Exterior	4
B	B-6 b	HM-2	3' - 0"	7' - 0"	1 3/4"	HM	FG	L-1	N11-X/A402	J11-X/A402	E-4-X/A401	70	B-6	3, 10

N1 — Door Opening Schedule

NO SCALE

Opening Schedule Window

Building	Mark	Frame Type	Size Width	Size Height	Material	Head	Jamb	Sill	Glazing Type	Comments
A	A-8 b	SF-6	4' - 2"	3' - 10"	SF	(E)	(E)		(E)	Clean existing glass, inside and out
A	A-8 c	SF-3	5' - 4"	4' - 2"	SF	N1-X/A402	N1-X/A402	N1-X/A402	C2-2T	With SERVICE WINDOWS insert
A	A-9 a	SF-6	4' - 0"	7' - 0"	SF	N14-X/A402	E14-X/A402	N8-X/A402	C2-2T	
A	A-9 b	SF-6	4' - 0"	7' - 0"	SF	N14-X/A402	E14-X/A402	N8-X/A402	C2-2T	
A	A-9 e	SF-6	4' - 0"	4' - 2"	SF	N14-X/A402	E14-X/A402	A14-X/A402	C2-2T	
A	A-10 a	SF-6	4' - 0"	4' - 2"	SF	N14-X/A402	E14-X/A402	A14-X/A402	C2-2T	
A	A-10 b	SF-6	4' - 0"	4' - 2"	SF	N14-X/A402	E14-X/A402	A14-X/A402	C2-2T	
B	B-1 b	SF-6	3' - 0"	7' - 0"	SF	N14-X/A402	E14-X/A402	A14-X/A402	C2-2T	
B	B-1 c	SF-6	6' - 0"	7' - 0"	SF	N14-X/A402	E14-X/A402	A14-X/A402	C2-2T	
B	B-2 b	SF-6	4' - 0"	7' - 0"	SF	N14-X/A402	E14-X/A402	A14-X/A402	C2-2T	
B	B-2 c	SF-6	4' - 0"	7' - 0"	SF	N14-X/A402	E14-X/A402	A14-X/A402	C2-2T	



DSA File No.: *15-95*

DSA Application No.: *03-122615*

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ABBREVIATIONS

OSS	- STEEL WINDOWS, Frames, Operable Steel Sash, Refer to sheet: X/XXXX.	AC	- Acoustical
SG	- Steel Gate	SS	- Stainless Steel
SW	- Service Window	CL	- Chain Link
STL	- Steel	WD	- Wood
AL	- Aluminum	CD	- COILING DOORS,
SF	- Storefront	GALV	- Galvanized Finish
HM	- Hollow Metal	S&F	- Steel and Fabrications
SG	- Site Gate	RO	- Rough Opening
SPF	- Steel Post Fence		

GENERAL NOTES

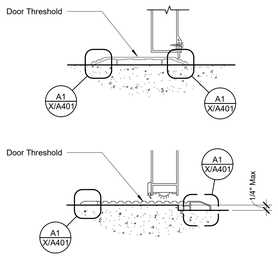
1. This schedule is provided for the convenience of the General Contractor. Dimensions indicated are nominal dimensions.
2. The General Contractor is responsible for all coordination and review of drawings and verifying all field conditions and dimensions prior to fabrication. Not all detail references are included in the schedule.
3. All details, materials and finishes shall be considered typical for all similar conditions unless noted otherwise.
4. For exterior thresholds at doors, see Detail E7/X/A401
5. Exit Doors shall be openable from inside without the use of a key or any special knowledge or effort.
6. For opening Head, Jamb, and Sill framing conditions, see Structural Drawings.
7. At exterior wall locations, provide opening flashing. See Detail A8/X/A402
8. Doors, and sidelites adjacent to doors, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the floor. This shall not apply if all Glazing Panels are 66" or greater above the Finish Floor.
9. Exterior Storefront Sills at the Concrete Floor, See Detail N8/X/A402
10. When using the laminated glass, provide a 1" clear border at the perimeter of the visible opening.
11. Changes in level between 1/4" high minimum and 1/2" high maximum shall be beveled with a slope not steeper than 1:2.

OPENING SCHEDULE COMMENTS

1. HARDWARE, Exit/Panic Devices, section HARDWARE, where occurs.
2. HARDWARE, Floor Stop, See detail A4/X/A401
3. HARDWARE, Floor Stop and Holder - See detail A7/X/A401
4. Remove and replace hardware.
   Match the hinge size to the hinge pockets.
   Match the existing hardware finish; Aged Bronze or Satin Chrome

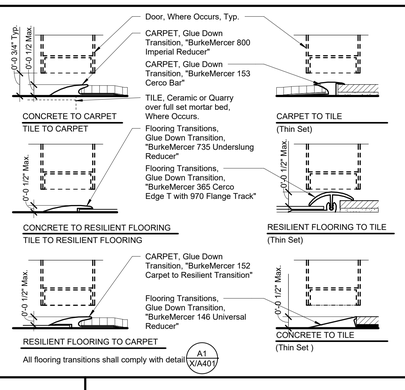
J1 — Window Opening Schedule

NO SCALE



E1 — Accessible Door Thresholds

3" = 1'-0"

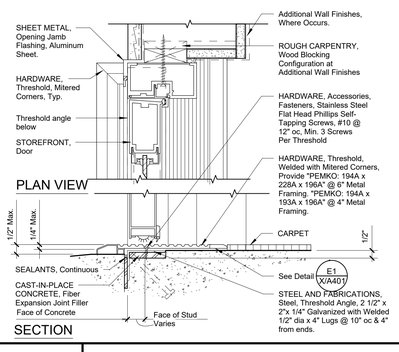


E4 — Flooring Transitions @ Interior

3" = 1'-0"

See General Note 11

NOTE 1: Match existing exterior door and frame finishes; Dark Bronze



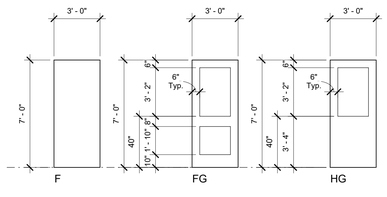
E7 — HARDWARE, Threshold at Exterior Door

3" = 1'-0"

See General Note 11

J11 — Hollow Metal Frame Details

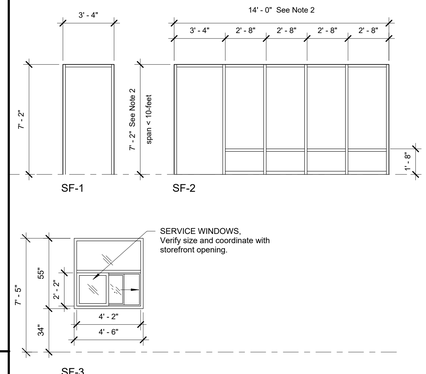
3" = 1'-0"

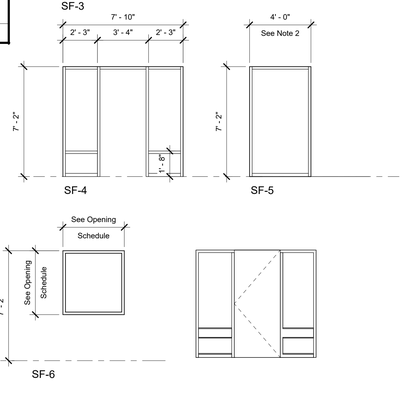


NOTE:
When a new door is to be placed into and existing frame, the frame shall be field measured, and the door sized to fit with an 1/8" clearance at the jambs and head.

E11 — Door Types

1/4" = 1'-0"

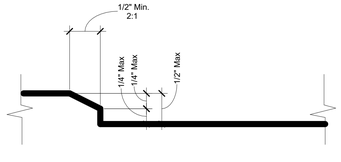




J18 — Opening Schedule Legend

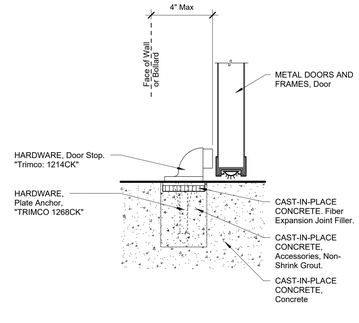
No Scale

NOTE
All Door Thresholds and Flooring Transitions shall not exceed the dimensions and beveled slopes indacted in this detail



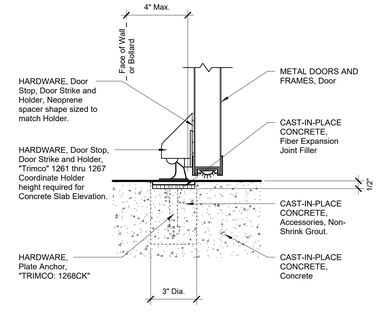
A1 — Beveled Floor Transition Detail

1/2" = 1'-0"



A4 — HARWARE, Door Stop

3" = 1'-0"

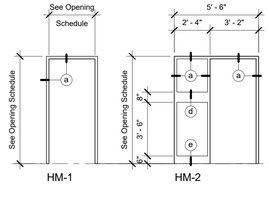


A7 — HARDWARE, Door Stop Holder

3" = 1'-0"

NOTE 1: This opening is not subject to a Deferred Approval process.
DSA structural safety review and approval of window wall plans is not required when all elements of all window wall systems in a structure have a span less than or equal to 10 feet and the system and its components comply with DSA IR 24-2

NOTE 2: The new opening is to be placed into the existing wall framing. Confirm the actual rough opening and coordinate the field conditions with the shop drawings.



A11 — Frame Types

1/4" - 1'0"

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
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LICENSED ARCHITECT MICHEL K. FERRUCCI No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

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Revision

Scale: As indicated
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5/26/2023 1:59:06 PM
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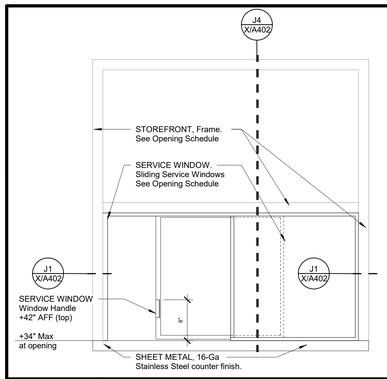
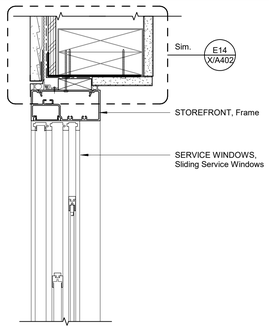


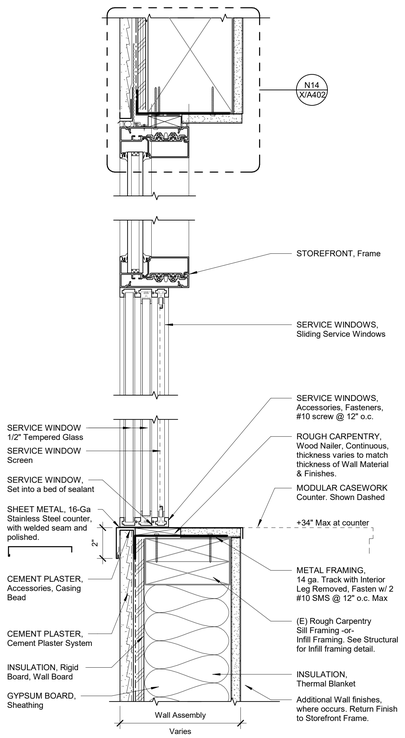
N1 | SERVICE WINDOWS, Elevation in Storefront Frame

1" = 1'-0"



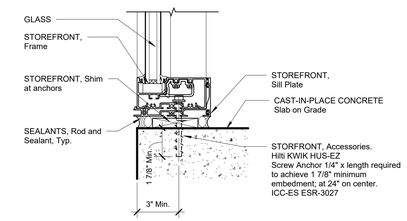
J1 | SERVICE WINDOW, Jamb Detail

3" = 1'-0"



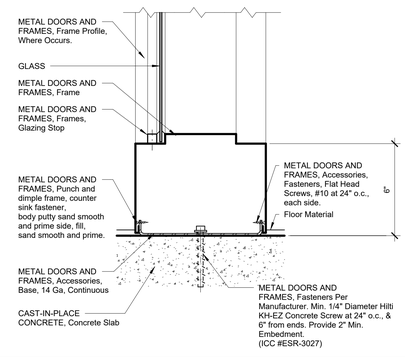
J4 | SERVICE WINDOW, Sill & Head Detail

3" = 1'-0"



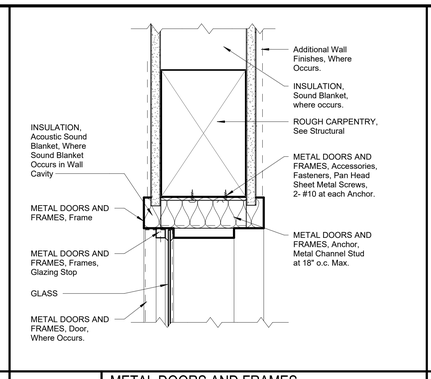
N8 | STOREFRONT, Sill at Concrete Slab on Grade

3" = 1'-0"



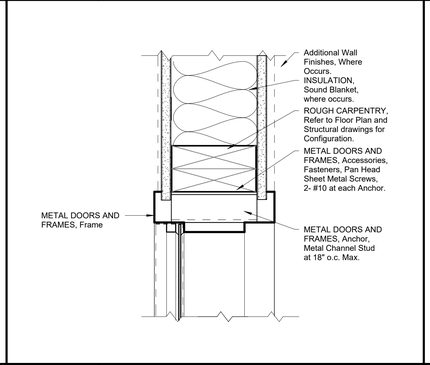
J8 | METAL DOORS AND FRAMES, Sill at Interior

3" = 1'-0"



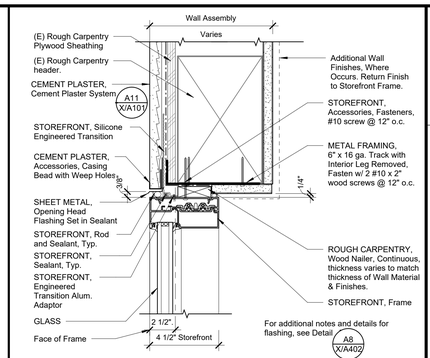
N11 | METAL DOORS AND FRAMES, Interior Head Detail

3" = 1'-0"



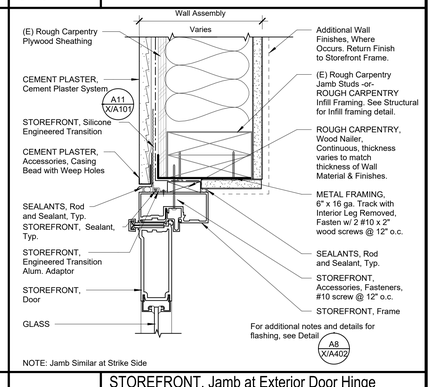
J11 | METAL DOORS AND FRAMES, Interior Jamb Detail

3" = 1'-0"



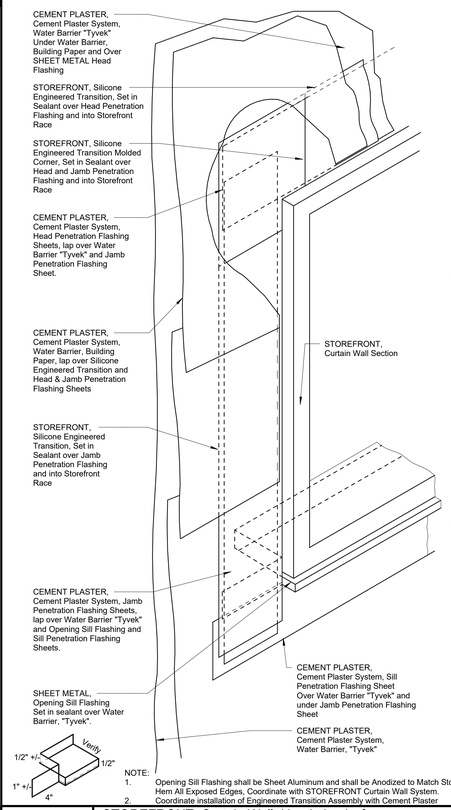
N14 | STOREFRONT, Head at CEMENT PLASTER

3" = 1'-0"



J14 | STOREFRONT, Jamb at Exterior Door Hinge Side

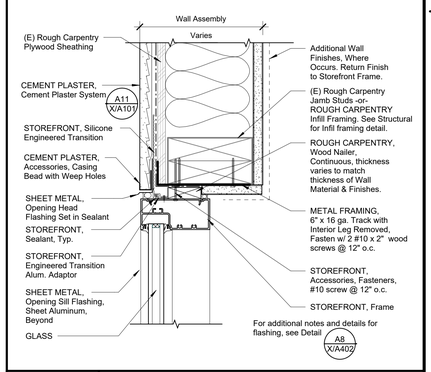
3" = 1'-0"



NOTE:
1. Opening Sill Flashing shall be Sheet Aluminum and shall be Anodized to Match Storefront
Hem All Exposed Edges, Coordinate with STOREFRONT Curtain Wall System.
2. Coordinate installation of Engineered Transition Assembly with Cement Plaster

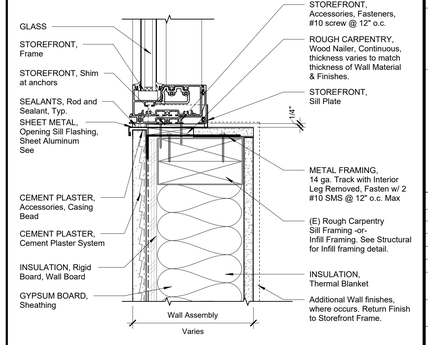
A8 | STOREFRONT, Curtain Wall, Head, Jamb, & Sill Flashing, at Exterior Cement Plaster

3" = 1'-0"



E14 | STOREFRONT, Jamb at CEMENT PLASTER

3" = 1'-0"



A14 | STOREFRONT, Sill at CEMENT PLASTER

3" = 1'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

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DATE: 07/20/2023

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ABBREVIATIONS

OSS	- STEEL WINDOWS, Frames, Operable Steel Sash, Refer to sheet. X/XXXX.	AC	- Acoustical
SG	- Steel Gate	SS	- Stainless Steel
SW	- Service Window	CL	- Chain Link
STL	- Steel	WD	- Wood
AL	- Aluminum	CD	- COILING DOORS,
SF	- Storefront	GALV	- Galvanized Finish
HM	- Hollow Metal	S&F	- Steel and Fabrications
SG	- Site Gate	RO	- Rough Opening
SPF	- Steel Post Fence		

GENERAL NOTES

1. This schedule is provided for the convenience of the General Contractor. Dimensions indicated are nominal dimensions.
2. The General Contractor is responsible for all coordination and review of drawings and verifying all field conditions and dimensions prior to fabrication. Not all detail references are included in the schedule.
3. All details, materials and finishes shall be considered typical for all similar conditions unless noted otherwise.
4. For exterior thresholds at doors, see Detail E7/X/A401
5. Exit Doors shall be openable from inside without the use of a key or any special knowledge or effort.
6. For opening Head, Jamb, and Sill framing conditions, see Structural Drawings.
7. At exterior wall locations, provide opening flashing. See Detail A8/X/A402
8. Doors, and sidelites adjacent to doors, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the floor. This shall not apply if all Glazing Panels are 66" or greater above the Finish Floor.
9. Exterior Storefront Sills at the Concrete Floor, See Detail N8/X/A402
10. When using the laminated glass, provide a 1" clear border at the perimeter of the visible opening.
11. Changes in level between 1/4" high minimum and 1/2" high maximum shall be beveled with a slope not steeper than 1:2.

OPENING SCHEDULE COMMENTS

1. HARDWARE, Exit/Panic Devices, section HARDWARE, where occurs.
2. HARDWARE, Floor Stop, See detail A4/X/A401
3. HARDWARE, Floor Stop and Holder - See detail A7/X/A401
4. Remove and replace hardware.
   Match the hinge size to the hinge pockets.
   Match the existing hardware finish; Aged Bronze or Satin Chrome

J18 | Opening Schedule Legend

No Scale

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
OPENING DETAILS

Drawing

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ARCHITECTURE
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LICENSED ARCHITECT
MICHAEL K. FENBOCK
No. C23724
Exp. 4-30-23
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright 2023 Darden Architects	
Scale: As indicated	Drawn By: KX	X/A402	
Project Number: 2228	Checked By: MF		
Date: 3/20/2022	Reviewed By: MF		

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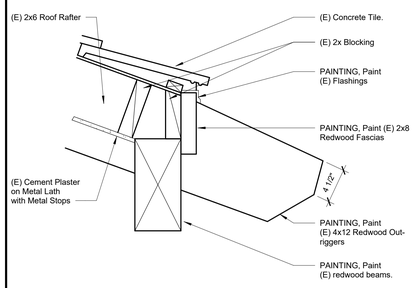
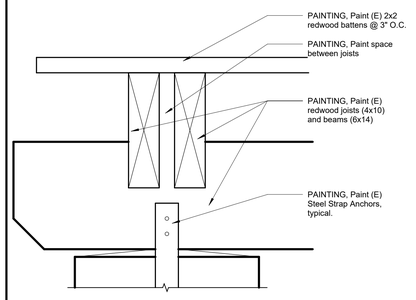
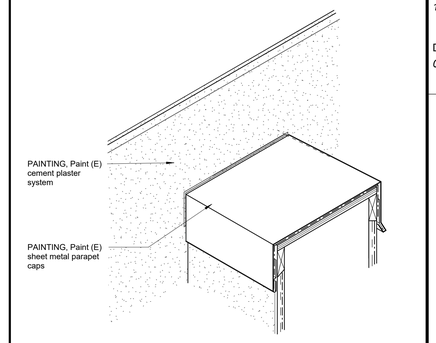


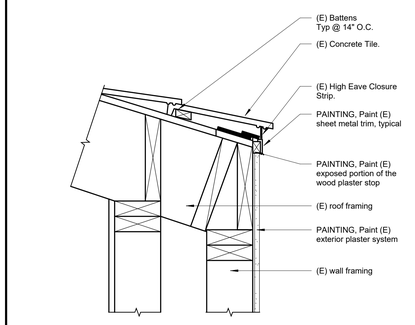
N7 — PAINTING, Wood Outriggers
1 1/2" = 1'-0"



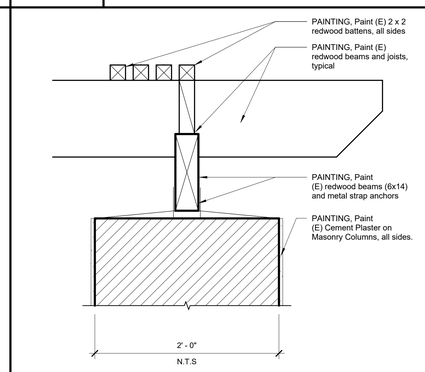
N11 — PAINTING, Wood Trellis
1 1/2" = 1'-0"



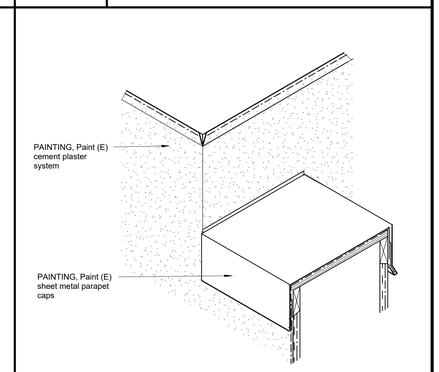
N14 — PAINTING, Sheet Metal Parapet at Cement Plaster
3" = 1'-0"



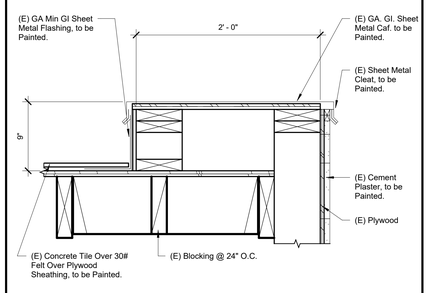
J7 — PAINTING, Cement Plaster Transition at Eave
1 1/2" = 1'-0"



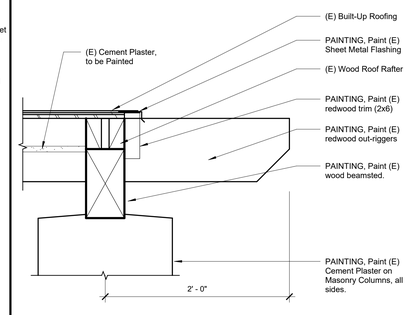
J11 — PAINTING, Wood Trellis & Cement Plaster
1 1/2" = 1'-0"



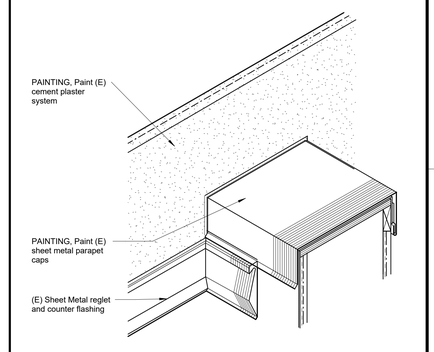
J14 — PAINTING, Sheet Metal Parapet at Cement Plaster
3" = 1'-0"



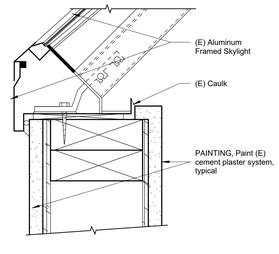
E7 — Sloping Parapet
1 1/2" = 1'-0"



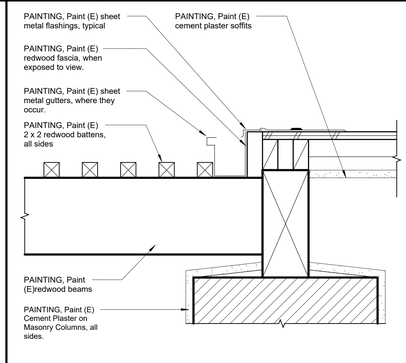
E11 — PAINTING, Wood Trellis & Cement Plaster
1 1/2" = 1'-0"



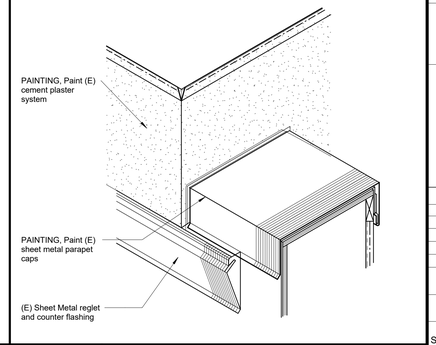
E14 — PAINTING, Sheet Metal Parapet at Cement Plaster
3" = 1'-0"



A7 — PAINTING, Cement Plater at Skylight
1 1/2" = 1'-0"



A11 — PAINTING, Wood Trellis & Cement Plaster
1 1/2" = 1'-0"



A14 — PAINTING, Sheet Metal Parapet at Cement Plaster
3" = 1'-0"

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DATE: 07/20/2023

Agency Approval

General Notes

Consultant

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL DETAILS
EXTERIOR PAINTING DETAILS

Drawing

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LICENSED ARCHITECT MICHAEL K. FRANCIS No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

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Scale:	As indicated	Designed By:	MF
		Drawn By:	CC
Project Number:	2228	Checked By:	MF
Date:	3/20/2022	Reviewed By:	MF

X/A501

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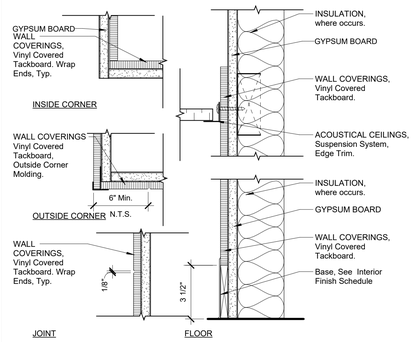
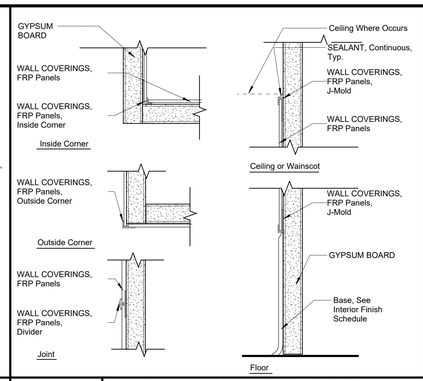
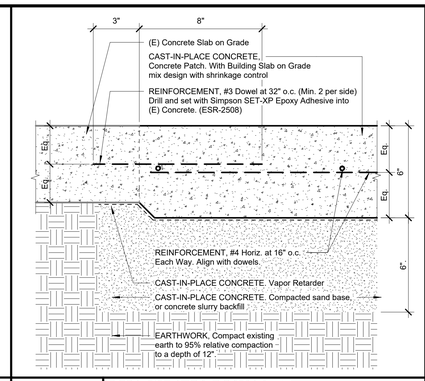


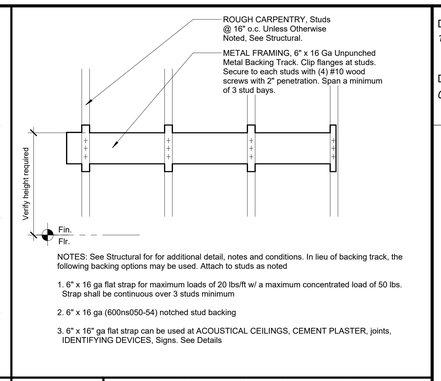
N4 — WALL COVERINGS, Vinyl Covered Tackboard
3" = 1'-0"



N7 — WALL COVERINGS, FRP Panels, Aluminum Trim
6" = 1'-0"



N11 — CAST-IN-PLACE CONCRETE, Concrete Patch Detail
3" = 1'-0"



NOTES: See Structural for for additional detail, notes and conditions. In lieu of backing track, the following backing options may be used. Attach to studs as noted

1. 6" x 16 ga flat strap for maximum loads of 20 lbs/ft w/ a maximum concentrated load of 50 lbs. Strap shall be continuous over 3 studs minimum

2. 6" x 16 ga (600ns050-54) notched stud backing

3. 6" x 16" ga flat strap can be used at ACOUSTICAL CEILINGS, CEMENT PLASTER, joints, IDENTIFYING DEVICES, Signs. See Details

N14 — METAL FRAMING / ROUGH CARPENTRY , Backing Detail
1" = 1'-0"

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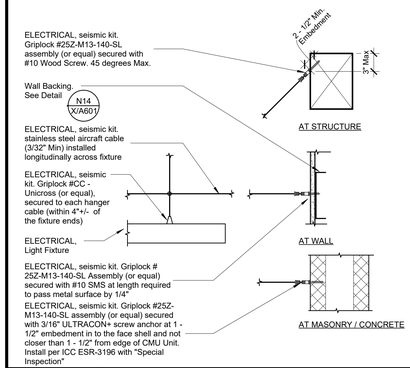
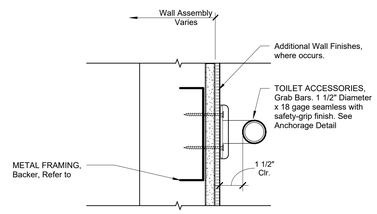
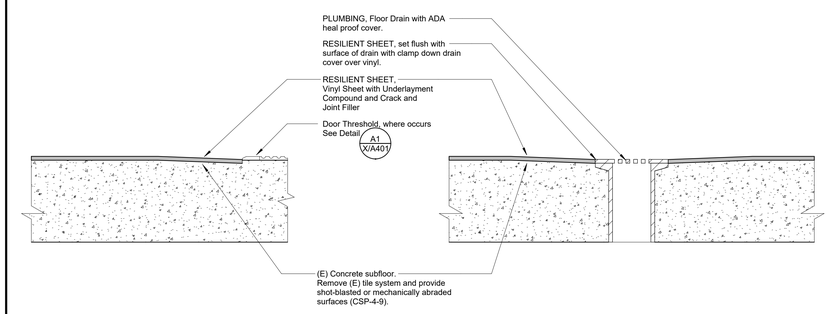


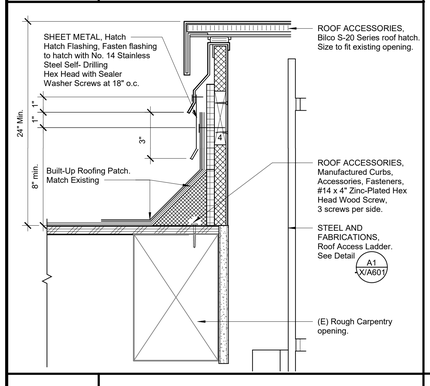
J1 — ELECTRICAL, Aircraft Cable Seismic Attachment Detail
1 1/2" = 1'-0"



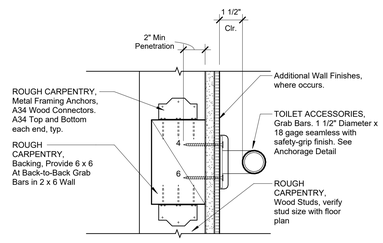
CONDITION @ METAL FRAMING



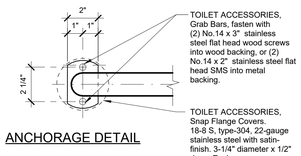
J11 — RESILIENT SHEET, Detail
3" = 1'-0"



E1 — ROOF ACCESSORIES, Roof Access Hatch
3" = 1'-0"

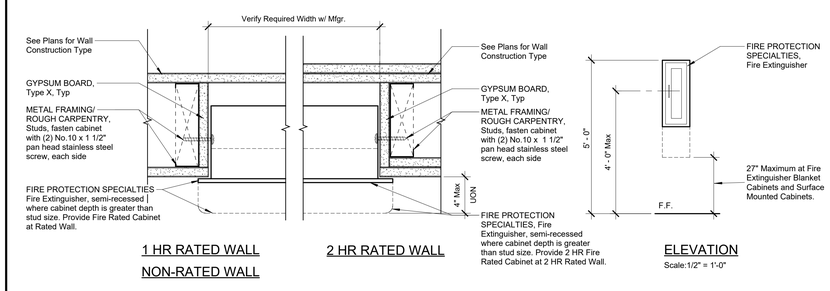


CONDITION @ WOOD FRAMING



ANCHORAGE DETAIL

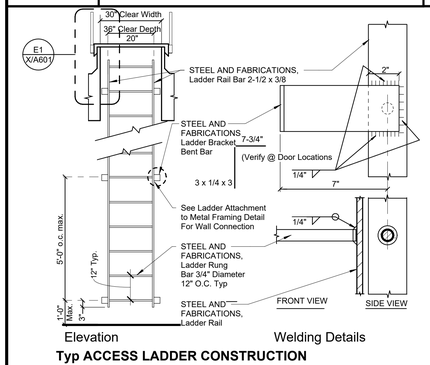
E4 — TOILET ACCESSORIES, Grab Bars
3" = 1'-0"



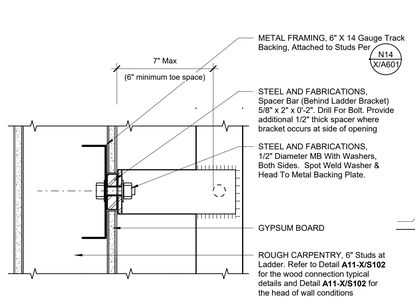
NOTE: Where stud Depth is Less than 6" Fire Extinguisher Blanket Cabinets Shall be Surface Mounted.

NOTE: Provide Surface mount cabinets at Concrete and Concrete Masonry Walls

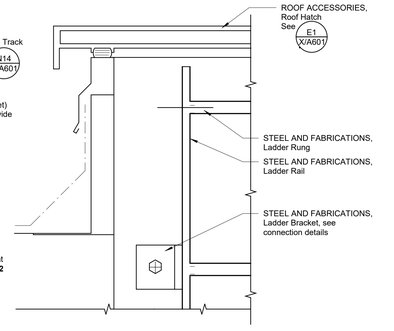
E11 — FIRE PROTECTION SPECIALITIES, Fire Extinguisher Cabinets
3" = 1'-0"



Typ ACCESS LADDER CONSTRUCTION

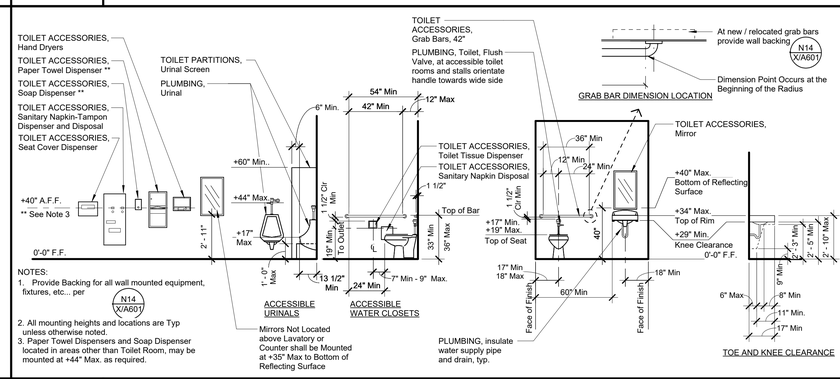


LADDER ATTACHMENT TO METAL FRAMING DETAIL



LADDER AT ROOF HATCH DETAIL

A1 — STEEL AND FABRICATIONS, Roof Access Ladder
1" = 1'-0"



NOTES:
1. Provide Backing for all wall mounted equipment, fixtures, etc... per N14 X/A601
2. All mounting heights and locations are Typ unless otherwise noted.
3. Paper Towel Dispensers and Soap Dispenser located in areas other than Toilet Room, may be mounted at +44" Max. as required.

A11 — TOILET ACCESSORIES AND PLUMBING FIXTURES
1/4" = 1'-0"

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
INTERIOR DETAILS

Drawing

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ARCHITECTURE PLANNING INTERIORS
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
www.dardenarchitects.com
LICENSED ARCHITECT RODNEY K. FRANCIS No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

X/A601

6/7/2023 7:25:32 AM
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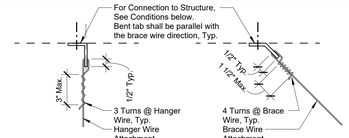
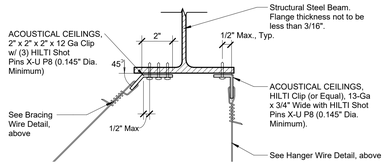


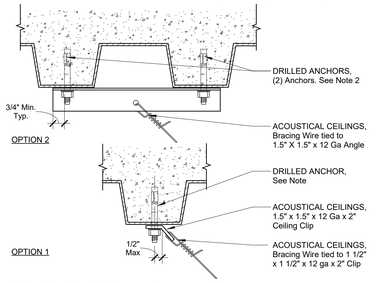
Hanger Wire - Typ

Bracing Wire - Typ



Structural Steel

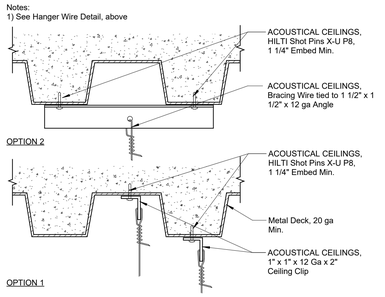
Notes:
1) See Bracing Wire Detail, above
2) DRILLED ANCHORS, Expansion Anchors. 3/8" Diameter Hilti KB-TZ22 with 2" min. embedment. See Structural General Notes for Post-Installed Anchors; ICC ESR reports and testing criteria.



Metal Deck with Concrete

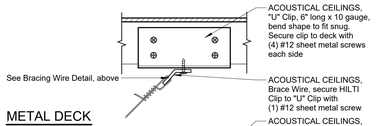
Bracing Wire

Notes:
1) See Hanger Wire Detail, above



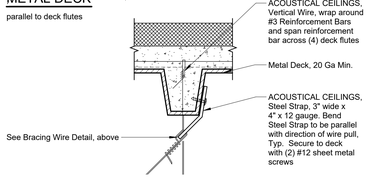
Metal Deck with Concrete

Hanger Wire



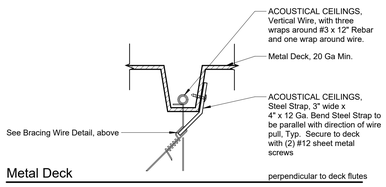
METAL DECK

parallel to deck flutes



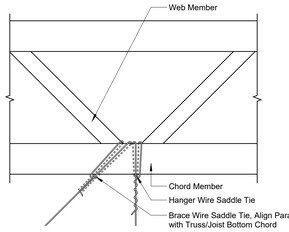
Metal Deck with Non-Structural Insulated Concrete

perpendicular to deck flutes

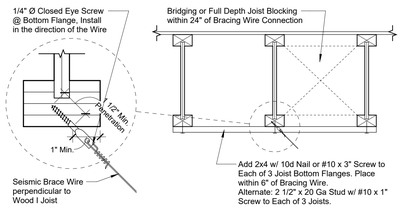


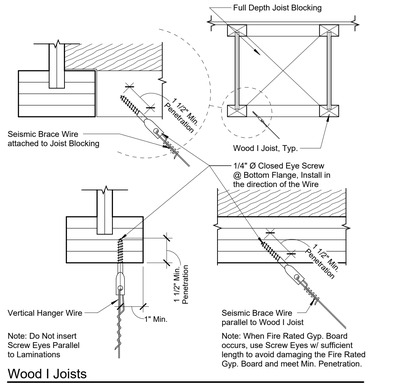
Metal Deck

perpendicular to deck flutes

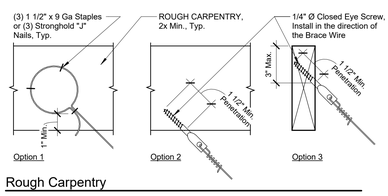


Wood Chord Truss and Open Web Steel Joist



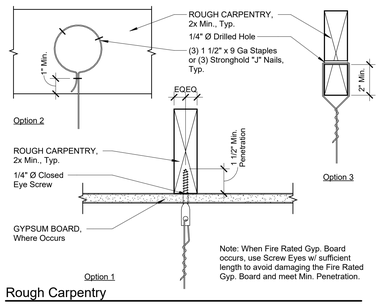


Wood I Joists



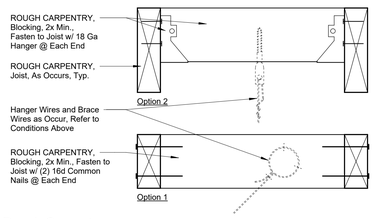
Rough Carpentry

Brace Wire



Rough Carpentry

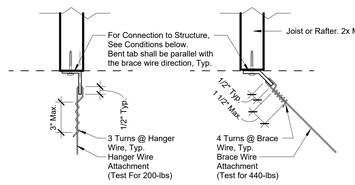
Hanger Wire



Rough Carpentry

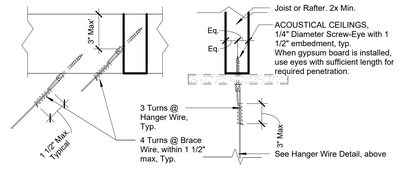
Typ Min. Blocking for Wire Attachments, For Blocking Requirements refer to STRUCTURAL

A1 — 3" = 1'-0" — ACOUSTICAL CEILINGS, Suspension System, Hanger & Bracing (Splay) Wire Attachments



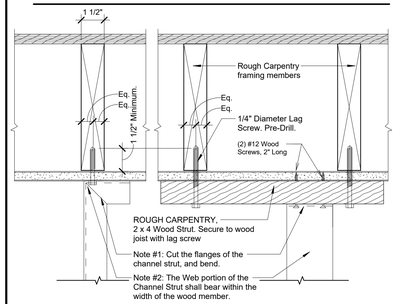
HANGER WIRE DETAIL

BRACING WIRE DETAIL



BRACING WIRE DETAIL

HANGER WIRE DETAIL

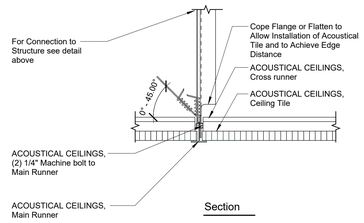


CONDITION 1
Main Runners "T" with Framing

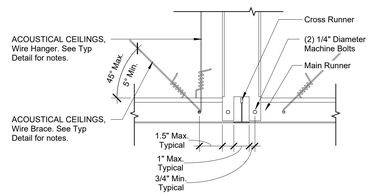
CONDITION 2
Main Runners parallel with Deck

COMPRESSION STRUT AT WOOD FRAMING

Reference: DSA IR 25-2.13, Sheet 2.35, 3.10, 4.10 & 5.10



Section



COMPRESSION STRUT AT ACOUSTICAL CEILING

Reference: DSA IR 25-2.13, Sheet 2.35

CHANNEL COMPRESSION STRUT	MAXIMUM LENGTH
Metal Framing, 250S125-33	5'-0"
Metal Framing, 250S137-33	6'-10"
Metal Framing, 362S137-33	8'-0"
Metal Framing, 250137-43	8'-10"
Metal Framing, 450S137-33	10'-10"

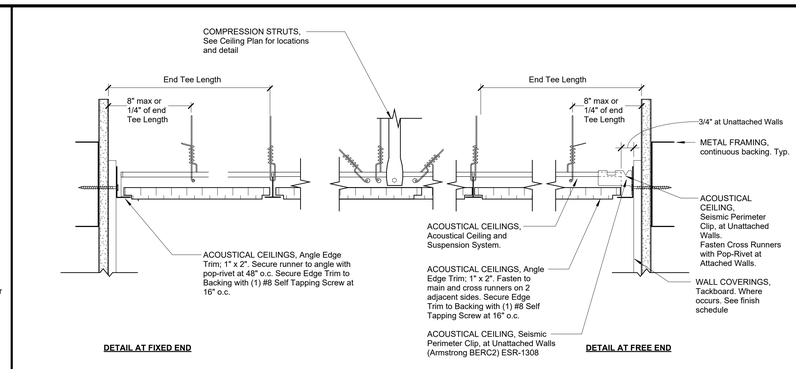
NOTES:

1. Material shall not be less than the minimum values indicated in the table above Refer to DSA IR 25-2.13, Table 3.21
2. Compression Strut and Bracing Wire conditions shall be located on a grid not exceeding 12'-0" x 12'-0". The "Datum" point for starting the strut/bracing grid shall be 6'-0" from one wall (half of 12'-0") and 6'-0"from an adjacent perpendicular wall (half of 12'-0").
3. Compression Strut and Bracing Wire conditions for Fire Rated Ceilings, Hospitals and Essential Services Buildings, shall be located on a grid not exceeding 12'-0" x 8'-0". The "Datum" point for starting the strut/bracing grid shall be 6'-0" from one wall (half of 12'-0") and 4'-0" from an adjacent perpendicular wall (half of 8'-0").
4. Compression Strut shall not replace the vertical Hanger Wires. See for Hanger Wire information.
5. Refer to Typ detail J4 X/A602

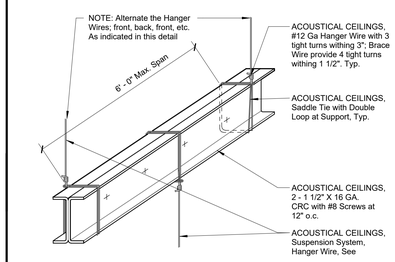
STRUT SCHEDULE

Reference: DSA IR 25-2.13, Sheet 3.21

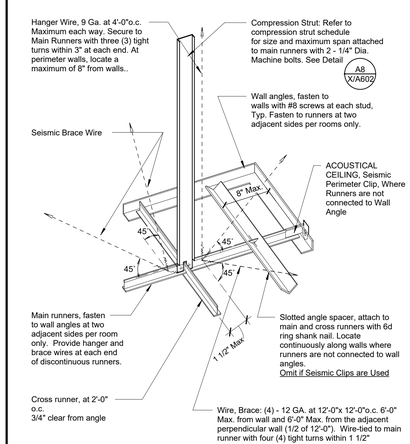
A8 — 3" = 1'-0" — ACOUSTICAL CEILING SUSPENSION SYSTEM, Compression Strut Schedule



N11 — 3" = 1'-0" — ACOUSTICAL CEILINGS, Perimeter Ceiling Detail



N1 — 3" = 1'-0" — ACOUSTICAL CEILINGS, Suspended Ceiling Trapeze Support



NOTES:

1. Splices in Slotted Wall Angles shall be with minimum 12" lap and fasten with (2) #8 screws at each flange.

2. FIRE RATED CEILINGS: Wire Brace and Compression Strut Assemblies are required for each 96 square feet and the first assembly shall be located maximum 4'-0" from each wall.

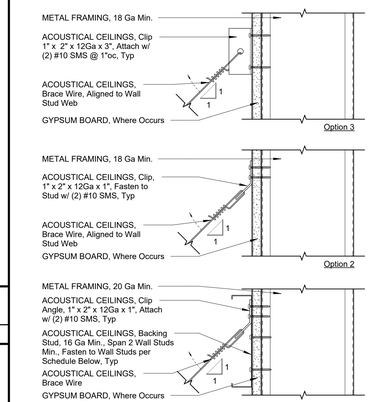
3. Refer to CBC Section 1617A.1.21, the design and installation to be in compliance with ASTM C635, C636, and E580, Section 5, as amended by 2019 CBC Section 1617A.1.21.

4. For attachment of hanger wire to roof structure, See

5.For attachment of hanger wire to adjacent wall, See

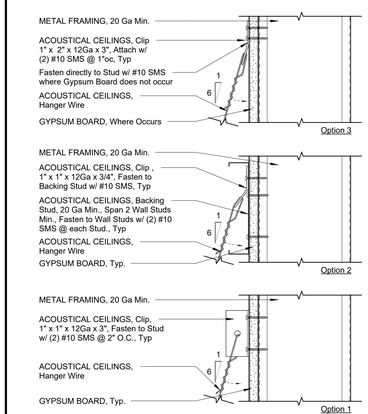
LAY-IN TILE CONDITION

J4 — 3" = 1'-0" — ACOUSTICAL CEILINGS, Suspension System



Wall Stud Gauge	Connection to Wall Stud (w/ Gyp. Board)	Connection to Wall Stud (w/out Gyp. Board)
20 Gauge	(5) #10 x 1 1/4" SMS	(3) #10 x 1 1/4" SMS
18 Gauge	(4) #10 x 1 1/4" SMS	(2) #10 x 1 1/4" SMS

Brace Wire Connections



Hanger Wire Connections

ACOUSTICAL CEILINGS, Suspension System, See

For Typ Wire Turns, See

NOTES:

1. RDP SHALL DESIGN FRAMING WALL TO CARRY THE CEILING LOAD PER NOTE # 2.

2. SEISMIC BRACE WIRE FORCE = 473 LBS (ASD LEVEL). BRACING WIRE SHALL HAVE A MINIMUM STRETCH LENGTH OF 12", WHEN USED AT FREE JOINT.

3. APPLIES WHERE CLIP ATTACHED DIRECTLY TO WALL STUD.

4. OSHPD, OPD, CL4.35

A14 — 3" = 1'-0" — ACOUSTICAL CEILINGS, Hanger and Bracing Wire Connection to Metal Stud Wall Detail

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
INTERIOR DETAILS-ACOUSTICAL CEILINGS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
LICENSED ARCHITECT MICHAEL K. FENN No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

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Scale: 3" = 1'-0"
Project Number: 2228
Date: 3/20/2022

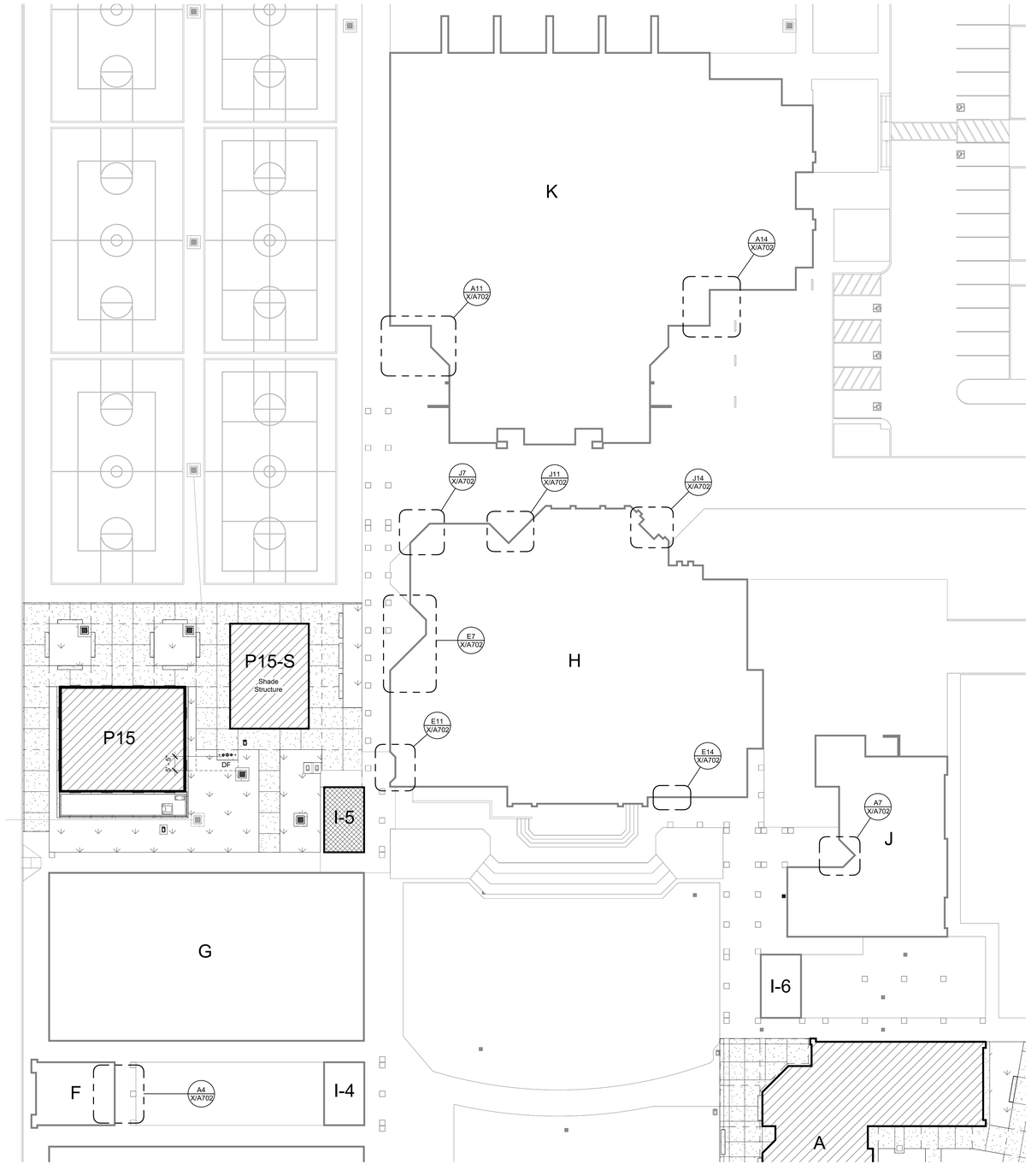
X/A602

5/26/2023 1:59:19 PM
C:\Users\Kennethx\Documents\2228_Warren_JHS_Mod_Phase_1_MASTER_V23_kennethxM8EKW.rvt

Signage Schedule Buildings F, H, J, and K								
Building	Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Mtg Height	Mtg Cond	Remarks
F	F-1-a	2a	A	BOYS	RESTROOM	4' - 11"	2	-
F	F-1-b	2c	A	N/A	N/A	4' - 11"	5	-
F	F-3-a	2a	A	GIRLS	RESTROOM	4' - 11"	2	-
F	F-3-b	2b	A	N/A	N/A	4' - 11"	5	-
H	H-1A-a	1a	A	N/A	N/A	1' - 6"	2	-
H	H-3-a	1a	A	N/A	N/A	1' - 6"	2	-
H	H-7-a	1a	A	N/A	N/A	1' - 6"	2	-
H	H-9-a	1a	A	N/A	N/A	1' - 6"	2	-
H	H-9-b	1a	A	N/A	N/A	1' - 6"	2	-
H	H-9-c	5a	A	N/A	N/A	4' - 11"	2	See Note 4
H	H-9-d	5a	A	N/A	N/A	4' - 11"	2	See Note 4
H	H-16-a	1a	A	N/A	N/A	1' - 6"	2	-
H	H-16-b	1a	A	N/A	N/A	1' - 6"	2	-
H	H-16-c	5a	A	N/A	N/A	4' - 11"	2	See Note 4
H	H-16-d	5a	A	N/A	N/A	4' - 11"	2	See Note 4
J	J-3-a	1a	A	N/A	N/A	1' - 6"	2	-
J	J-3-b	5a	A	N/A	N/A	4' - 11"	2	See Note 4
J	J-8-a	1a	A	N/A	N/A	1' - 6"	2	-
J	J-8-b	5a	A	N/A	N/A	4' - 11"	2	See Note 4
K	K-2-a	1a	A	N/A	N/A	1' - 6"	2	-
K	K-8-a	1a	A	N/A	N/A	1' - 6"	2	-
K	K-8-b	1a	A	N/A	N/A	1' - 6"	2	-
K	K-8-c	1a	A	N/A	N/A	1' - 6"	2	-
K	K-8-d	5a	A	N/A	N/A	4' - 11"	2	See Note 4
K	K-8-e	5a	A	N/A	N/A	4' - 11"	2	See Note 4
K	K-8-f	5a	A	N/A	N/A	4' - 11"	2	See Note 4
K	K-12-a	1a	A	N/A	N/A	1' - 6"	2	-
K	K-12-b	5a	A	N/A	N/A	4' - 11"	2	See Note 4
K	K-26-a	1a	A	N/A	N/A	1' - 6"	2	-
K	K-26-b	5a	A	N/A	N/A	4' - 11"	2	See Note 4

L7 | Signage Schedule

NO SCALE



A8 | Overall Signage Plan

1" = 20'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

MOUNTING CONDITION

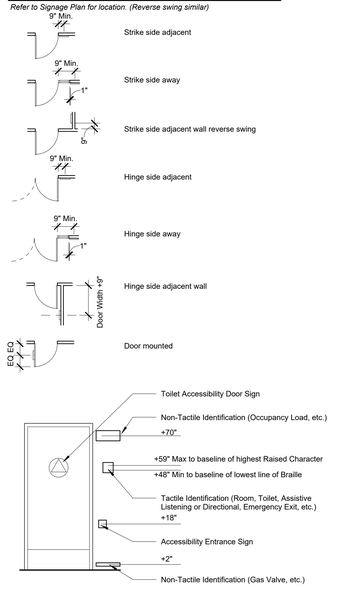
1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

SIGN MATERIAL

A	=	Acrylic
EM	=	Exterior Metal.
IM	=	Interior Metal.
EP	=	Exterior Plastic.
IP	=	Interior Plastic.
D	=	Decal.

MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)



Typical Mounting Heights

Scale: N.T.S.

NOTES

1. Refer to Specification Section 10 14 00 IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. Verify Sign Copy with Owner prior to fabrication, "-" indicates a blank space
4. Sign copy shall say "Classroom X". Room number shall be determined by Owner.
5. IDENTIFYING DEVICES, For Height, Mounting Condition, and Sign Description, refer to Detail E1 X/A702

G18 | Signage Schedule Legend

No Scale

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
OVERALL SIGNAGE SITE PLAN

Drawing

darden architects
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
LICENSED ARCHITECT MICHAEL K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

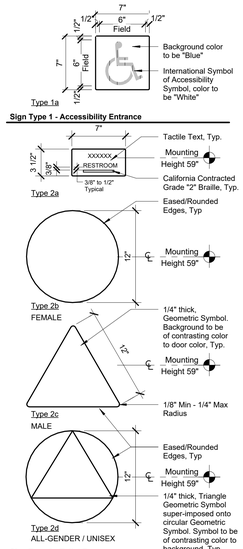
Architect

No.	Revision/Submission	Date

Revision

	Designed By: KX	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: KX	X/A701
Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

5/26/2023 1:59:23 PM
C:\Users\Kennethx\Documents\2228_Warren_JHS_Mod_Phase_1_MASTER_V23_kennethxM8EKW.rvt

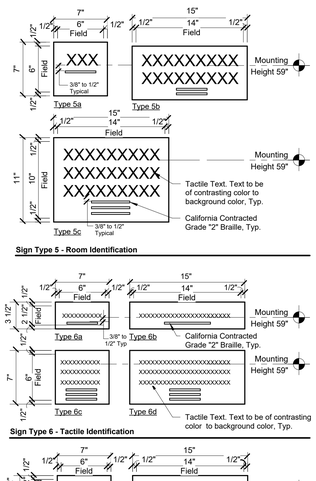


Sign Type 1 - Accessibility Entrance

Verify min. two (2) ASL devices provided for school.

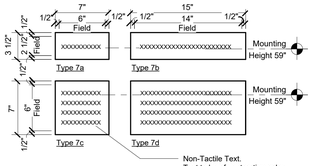
Sign Type 3 - Occupancy Load

Sign Type 4 - Assistive Listening

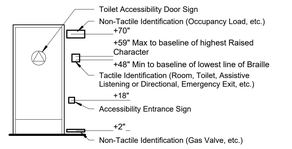


Sign Type 5 - Room Identification

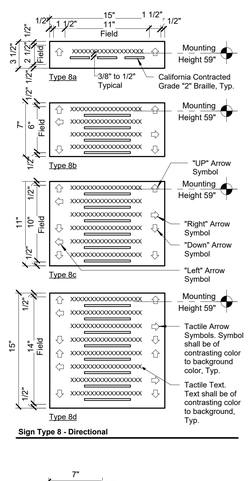
Sign Type 6 - Tactile Identification



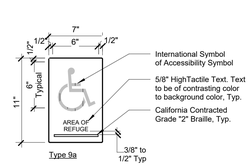
Sign Type 7 - Non-Tactile Identification



Typical Mounting Heights Scale: 1/4"= 1'-0"



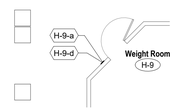
Sign Type 8 - Directional



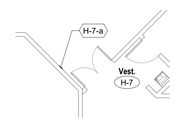
Sign Type 9 - Area of Refuge

NOTES:
1. Mounting Locations and Heights are typical, UON.
2. Mount Signs such that the baseline of the highest raised character is 59" Max above finish floor, verify the baseline of the lowest line of braille is a Min of 48" above finish floor.
3. Refer Specification Section IDENTIFYING DECEIVES and Signage Schedule for the Sign Copy.
4. Refer to N14 X/A601 for Backing requirements

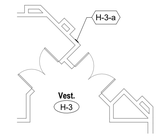
E1 | IDENTIFYING DEVICES, Signage Locations and Dimensions
1 1/2" = 1'-0"



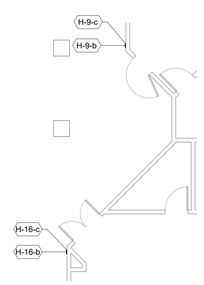
J7 | Signage Floor Plan, Building H
1/8" = 1'-0"



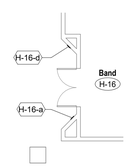
J11 | Signage Floor Plan, Building H
1/8" = 1'-0"



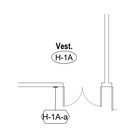
J14 | Signage Floor Plan, Building H
1/8" = 1'-0"



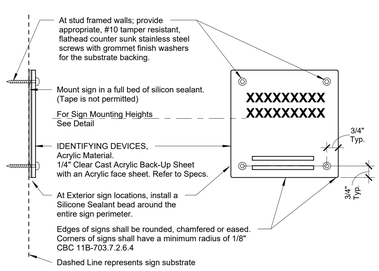
E7 | Signage Floor Plan, Building H
1/8" = 1'-0"



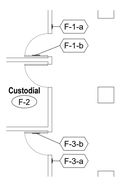
E11 | Signage Floor Plan, Building H
1/8" = 1'-0"



E14 | Signage Floor Plan, Building H
1/8" = 1'-0"

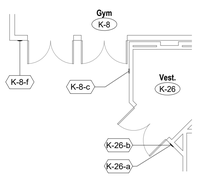


A1 | IDENTIFYING DEVICES, Exterior Sign Detail
3" = 1'-0"

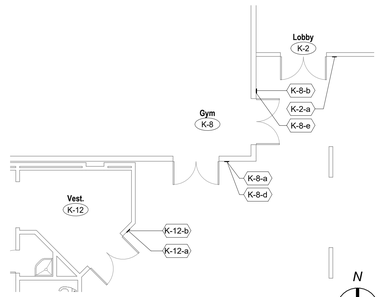


A4 | Signage Floor Plan, Building F
1/8" = 1'-0"

A7 | Signage Plan, Building J
1/8" = 1'-0"



A11 | Signage Floor Plan, Building K
1/8" = 1'-0"



A14 | Signage Floor Plan, Building K
1/8" = 1'-0"

DSA File No.:
15-95

DSA Application No.:
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DATE: 07/20/2023

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MOUNTING CONDITION

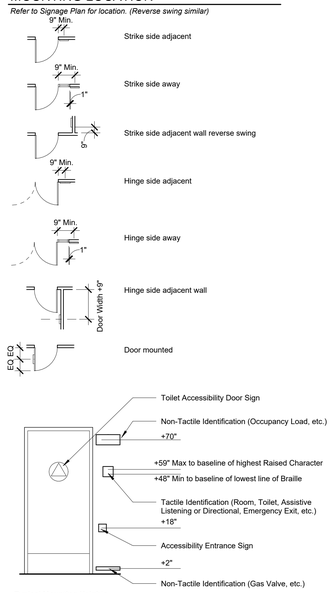
1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

SIGN MATERIAL

A	=	Acrylic
EM	=	Exterior Metal.
IM	=	Interior Metal.
EP	=	Exterior Plastic.
IP	=	Interior Plastic.
D	=	Decal.

MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)



Typical Mounting Heights

Scale: N.T.S.

NOTES

1. Refer to Specification Section 10 14 00 IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. Verify Sign Copy with Owner prior to fabrication, "-" indicates a blank space
4. Sign copy shall say "Classroom X". Room number shall be determined by Owner.
5. IDENTIFYING DEVICES, For Height, Mounting Condition, and Sign Description, refer to Detail E1 X/A702

G18 | Signage Schedule Legend
No Scale

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
SIGNAGE PLAN AND SCHEDULE

Drawing

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LICENSED ARCHITECT MICHAEL K. FERRO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

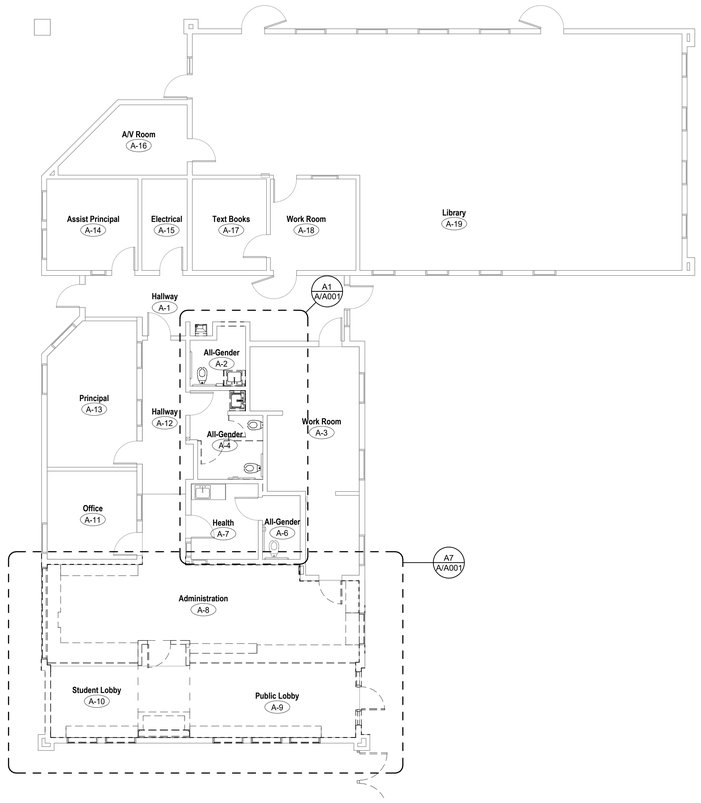
	Designed By: KX	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: KX	X/A702
Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

5/26/2023 1:59:28 PM
C:\Users\Kenneth\Documents\2228_Warren_JHS_Mod_Phase_1_MASTER_V23_kennethxM8EKW.rvt

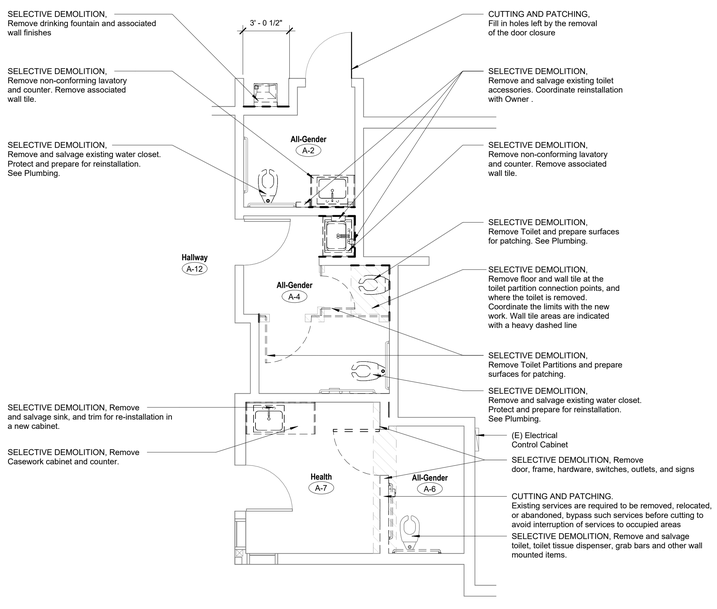
DEMOLITION NOTES

- F1 — SELECTIVE DEMOLITION, Remove Existing Floor Finishes, Wall Base and Glues.
- F2 — SELECTIVE DEMOLITION, Remove (E) floor tile, thick set base and concrete slab on grade. Prepare grade for new concrete floor.
- F3 — SELECTIVE DEMOLITION, Remove Tile / Concrete Seat Wall and Concrete Foundation.
- F4 — SELECTIVE DEMOLITION, Remove Casework, Counters, Bases and Fasteners.
- F5 — SELECTIVE DEMOLITION, Water Blast Floor after all Floor Finishes, Casework, etc, are removed.
- F6 — SELECTIVE DEMOLITION, Saw Cut and Remove Concrete Slab.
- F7 — SELECTIVE DEMOLITION, Remove Ceramic Tile Seat Bench and Wood Framing.
- W1 — SELECTIVE DEMOLITION, Remove Wall Finishes down to the Face of the Studs.
- W3 — SELECTIVE DEMOLITION, Remove Wall Framing, Wall Finishes, and safe-off all Utilities. Contractor to field verify with Architect before demo.
- W6 — SELECTIVE DEMOLITION, Remove Existing Interior and Exterior hose bib.
- W7 — SELECTIVE DEMOLITION, Remove Existing window and window frame. Prepare for new wall infill and/or new opening.
- W8 — SELECTIVE DEMOLITION, Remove and Replace Door Hardware. Ask District if Hardware shall be salvaged.
- W9 — SELECTIVE DEMOLITION, Remove Existing Door, Door Frame, Window, and Window Frame. Ask District if Hardware shall be salvaged.
- P2 — SELECTIVE DEMOLITION, Protect existing FACP.
- P3 — SELECTIVE DEMOLITION, Protect existing floor / wall outlets and pathway.

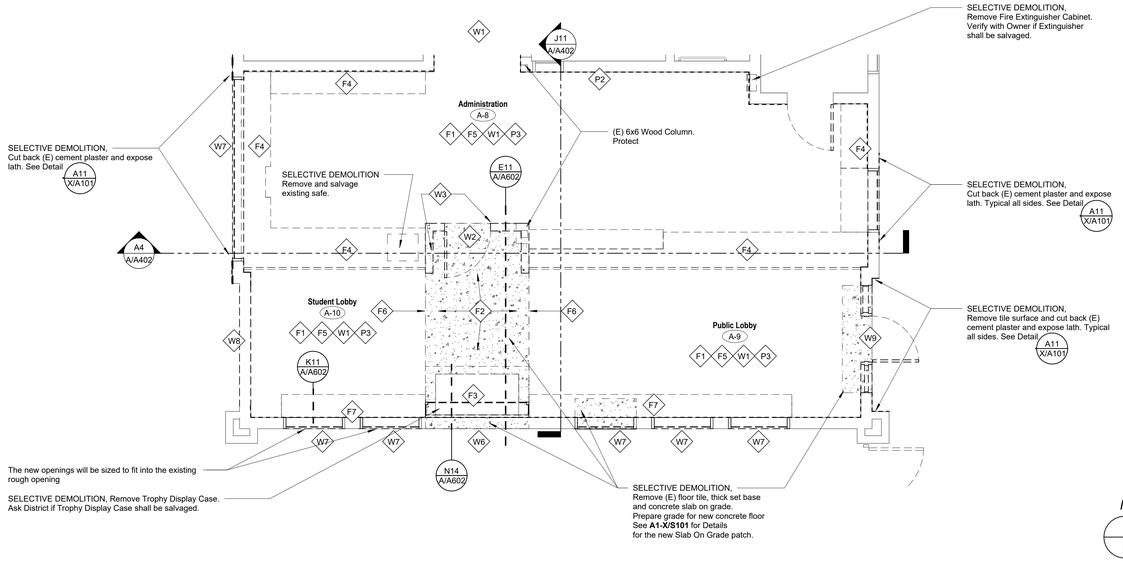
J1 — Demolition Floor Plan Key Notes
NO SCALE



H7 — Demolition Overall Floor Plan
1/8" = 1'-0"



A1 — Restroom Demolition Floor Plan
1/4" = 1'-0"



A7 — Enlarged Demolition Floor Plan
1/4" = 1'-0"

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15-95

DSA Application No.:
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SYMBOLS

- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- Room name 101 — Room Designation
- F1 — Demolition Key Note Symbol

NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
2. Remove materials, equipment, and finishes indicated by demolition key notes
3. All Concrete removed shall be within sawcut lines or Existing expansion / control joint lines.
4. Coordinate removal of door hardware with HARDWARE in the specifications.
5. Where Demolition work is indicated, Contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
6. Any damage resulting from the modernization activity shall be corrected at no additional expense to the Owner and all surfaces cleaned and readied to receive new work.
7. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
8. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
9. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendations to the Architect.

K18 — Demolition Floor Plan Legend
NO SCALE

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

BUILDING A
DEMOLITION FLOOR PLAN
Drawing

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Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: CC	A/A001
Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

5/26/2023 11:18:24 AM
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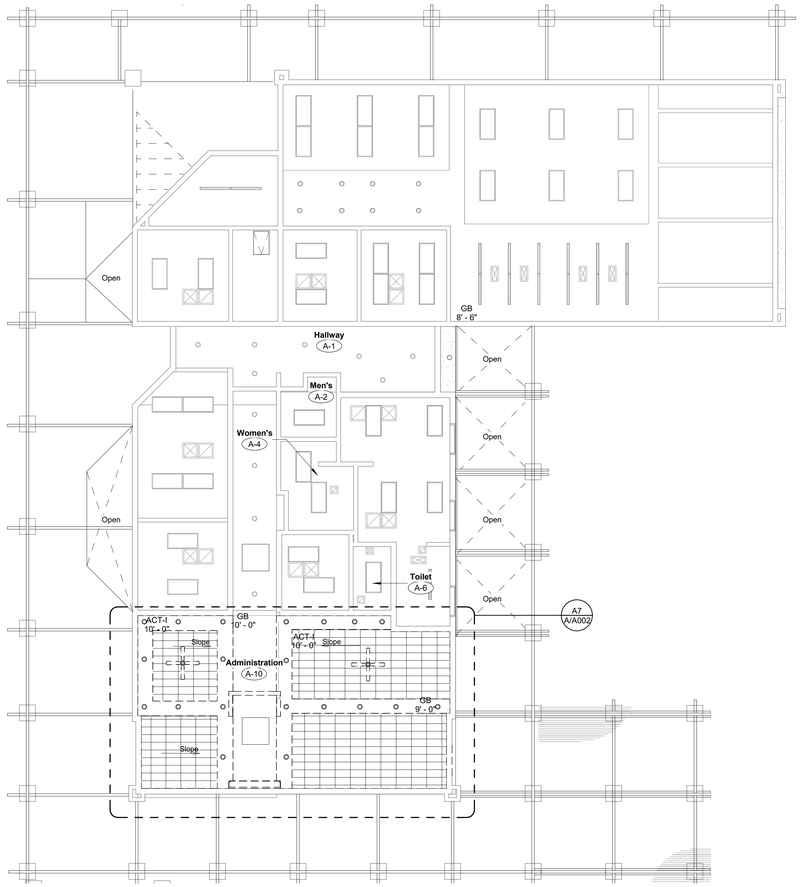
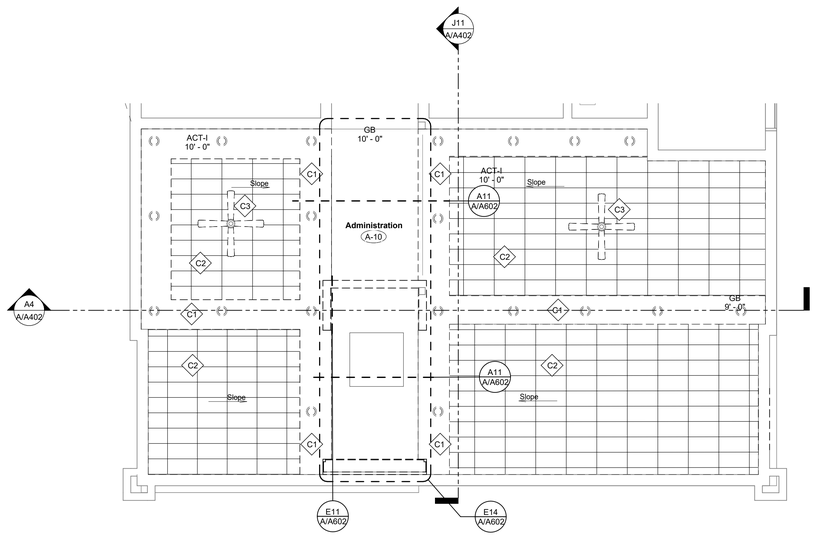


G7

1/8" = 1'-0"

Demolition Reflected Ceiling Plan



A7

1/4" = 1'-0"

Enlarged Demolition Reflected Ceiling Plan

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15-95

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DATE: 07/20/2023

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SYMBOLS

Existing Wall

Remove Existing Wall

Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)

Room name 101 — Room Designation

F1 — Demolition Key Note Symbol

NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications.
2. Remove materials, equipment, and finishes indicated by demolition key notes.
3. Where Demolition work is indicated, Contractor shall remove and reinstall any or all items necessary for installation of new work. existing area affected by demolition work shall be patched and repaired to match existing construction.
4. Any damage resulting from the modernization activity shall be corrected at no additional expense to the Owner and all surfaces cleaned and readied to receive new work.
5. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
6. Where new work abuts or aligns with existing, make a smooth and even transition. Patch work shall match existing adjacent work in texture and appearance.
7. When finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surfaces along a straight line at a natural line of division and make recommendations to the Architect.

DEMOLITION NOTES

C1 — SELECTIVE DEMOLITION, Remove Gypsum Board, wood framed soffit and electrical lights.

C2 — SELECTIVE DEMOLITION, Remove Glue-Up Tiles and (2) Layers of Gypsum Board (Applied to the bottom side of the sloped roof structure).

C3 — SELECTIVE DEMOLITION, Remove ceiling fan. Ask District if fan shall be salvaged.

L18 — Demolition Reflected Ceiling Plan Legend

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING A
DEMOLITION REFLECTED CEILING PLAN

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MICHAEL K. FERRARI
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

A/A002

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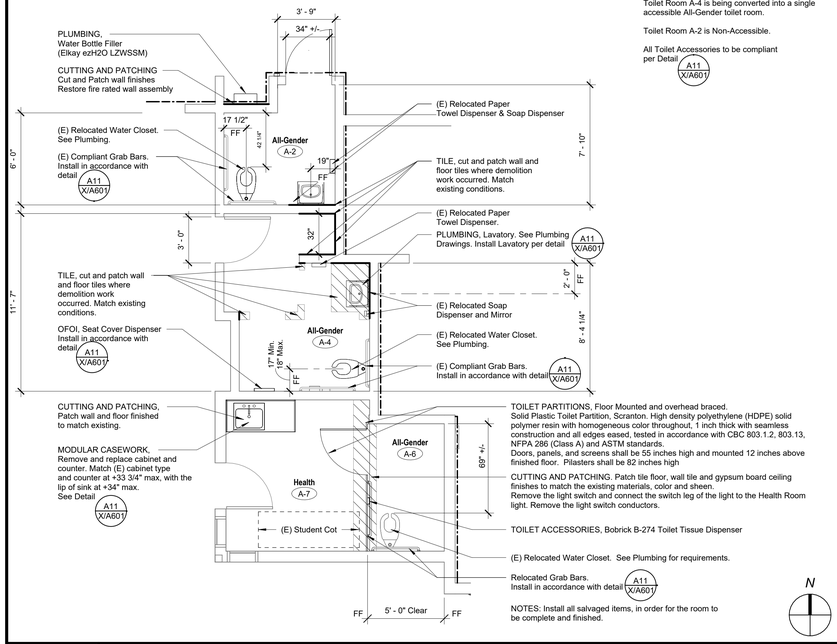


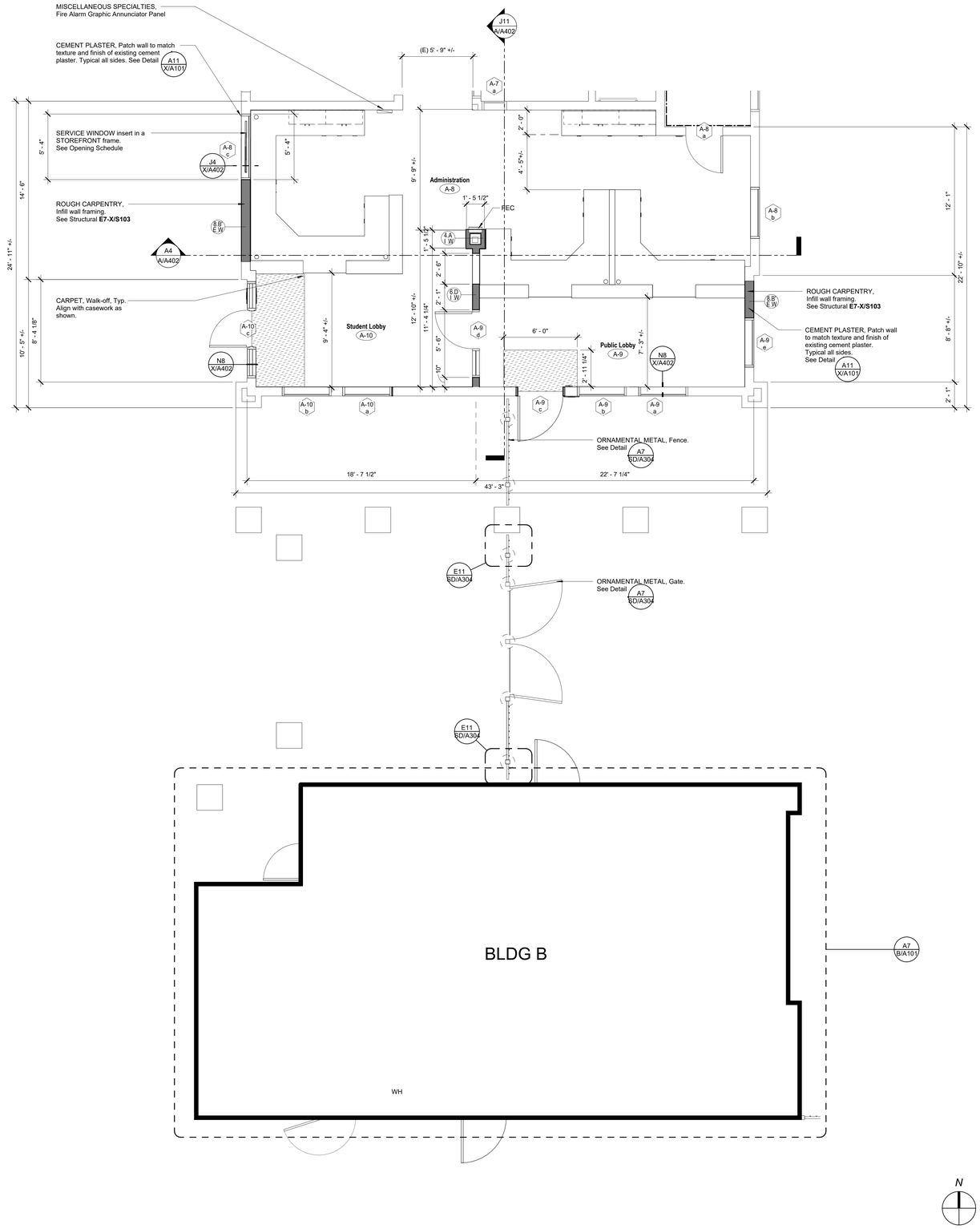
NOTE:

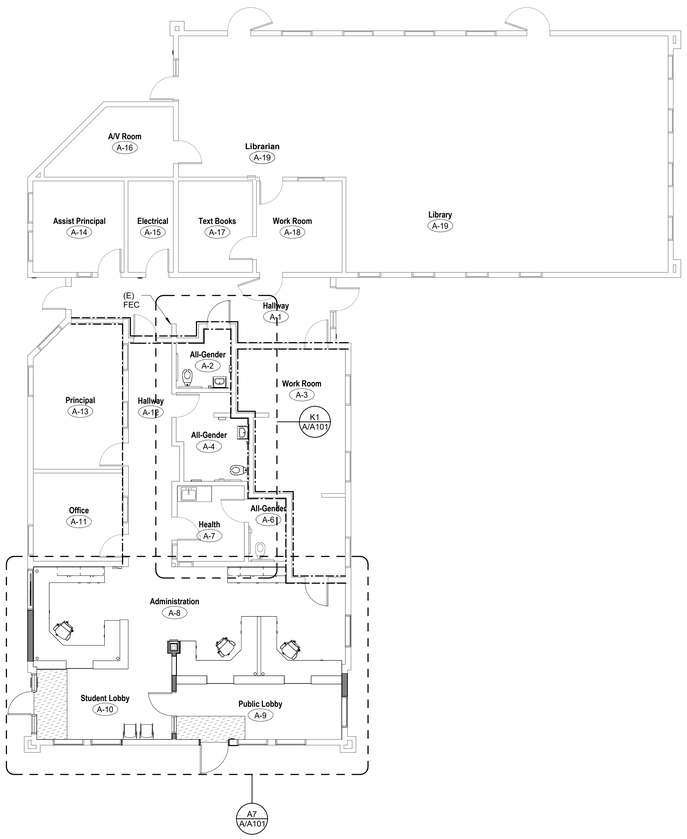
Toilet Room A-4 is being converted into a single accessible All-Gender toilet room.

Toilet Room A-2 is Non-Accessible.

All Toilet Accessories to be compliant per Detail A11 X/A601

K1	Restroom Floor Plan
1/4" = 1'-0"	





A1	Overall Floor Plan
1/8" = 1'-0"	

A7	Enlarged Floor Plan
1/4" = 1'-0"	

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DSA Application No.:
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SYMBOLS

- (E) Stud Framed Wall to Remain, Typical
- Stud Wall, Studs, and Interior Wall.
- 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- 1 Hr. Occupancy Separation / Fire Barrier - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
- 101 a — Opening Group No. Refer to Door or Window Opening Schedules
- Eq Mark — Equipment Item No. Refer to Equipment Schedule
- Room name 101 — Room Designation
- # # / S — Wall Assembly Symbols. Refer to Sheet X/A101
- Reference Point

ABBREVIATIONS

FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise.
FF	Face of Finish
FOC	Face of Concrete
FD	Floor Drain
FOM	Face of Masonry
FOS	Face of Stud
FS	Floor Sink
HB	Hose Bib
MO	Masonry Opening
UNO	Unless Noted Otherwise
RO	Rough Opening
VCT	RESILIENT FLOORING, Vinyl Composition Tile
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

NOTES

1. Vertical lifts will be required for the installation of some of the pathway with high ceilings. Verify the type of the lift with fit through the available opening widths; the vertical mullions for the double doors are removable. Paint Hollow Metal Door & Frames that are damaged.
2. When lifts are use in BLDG H and K, they shall have non-marring wheels. Lifts shall be placed on 3/4" thick plywood, and not on the Gym or MPR floor.
4. All Exterior Walls shall be Wall Assembly Type 6.B° / E.M Unless Noted Otherwise.
5. All Interior Walls shall be Wall Assembly Type 6.E / I.M Unless Noted Otherwise.
6. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
7. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
8. Dimensions noted as "+/-" are nominal.
9. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
10. IDENTIFYING DEVICES, For Room Signage refer E1 / X/A702 to and Specifications

H18	Floor Plan Legend
No Scale	

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING A
FLOOR PLAN

Drawing

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LICENSED ARCHITECT MICHAEL K. FENNO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2022 Darden Architects
Scale:	As indicated	Drawn By: CC	A/A101
Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

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DSA File No.:
15-95

DSA Application No.:
03-122615

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APP: 03-122615 INC:
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DATE: 07/20/2023

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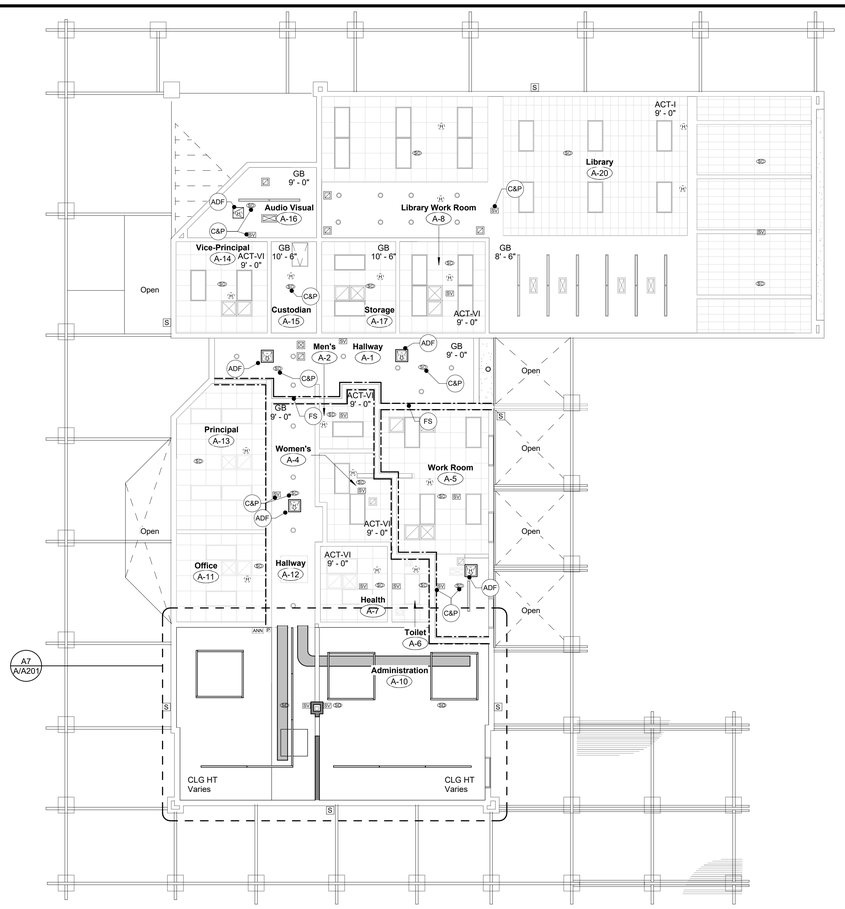
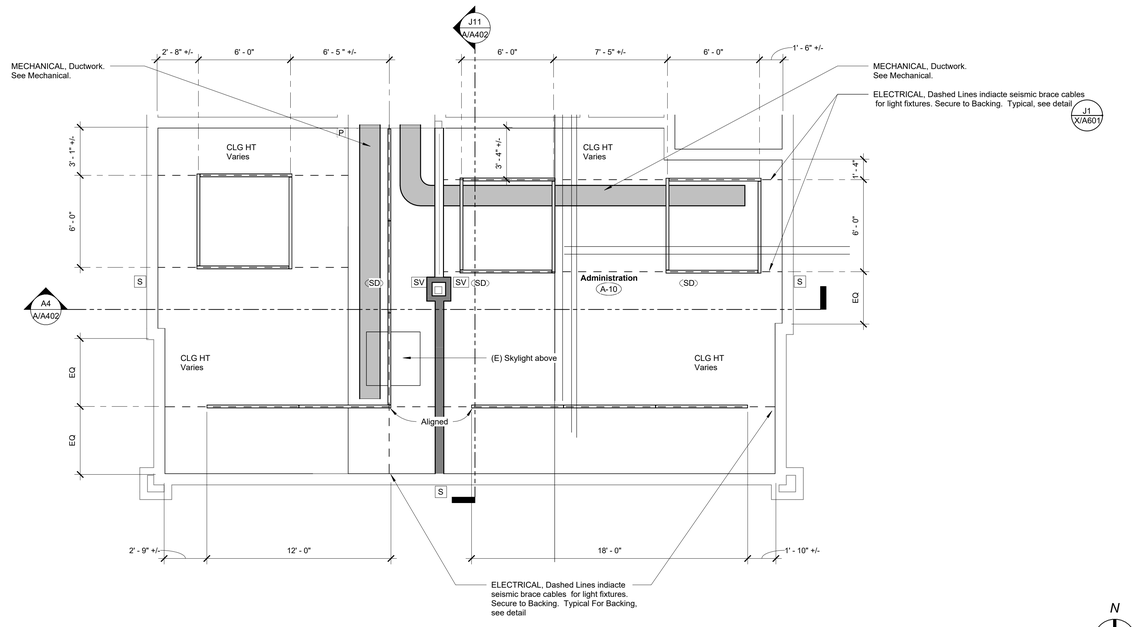


H7
1/8" = 1'-0"

Overall Reflected Ceiling Plan



A7
1/4" = 1'-0"

Enlarged Reflected Ceiling Plan

SYMBOLS

- (E) MECHANICAL, Air Supply Grill
- (E) MECHANICAL, Air Return Grill
- (E) MECHANICAL, Strip Grill
- (E) MECHANICAL, Exhaust Fan
- (E) FIRE PROTECTION, Fire Sprinkler Head
- (E) PLUMBING, Overflow Drain
- (E) ACOUSTICAL CEILINGS, Suspended Ceiling Splay Wire location
- (E) ROOF ACCESSORIES, Roof Hatch
- (E) ELECTRICAL, Light Fixture, Recessed. Unless Noted Otherwise. (p) = Pendant Mounted (s) = Surface Mounted
- (E) ELECTRICAL, Light Fixture. Wall Mounted
- (E) ELECTRICAL, Light Fixture, Linear
- H SD SV — ELECTRICAL, Fire Alarm Device
- S S — ELECTRICAL, Fire Alark Speaker
- (E) CEMENT PLASTER, Cement Plaster System
- (E) ACCESS DOORS AND FRAMES, Ceiling Access or new ACCESS DOORS AND FRAMES, Ceiling Access where required for new Fire larm Devices
- (E) 1 Hr. Corridor Wall - (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- (E) 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- (E) 1 Hr. Occupancy Separation / Fire Partition - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
- ADF — ACCESS DOORS AND FRAMES, Ceiling Access. See Symbols above
- C&P — CUTTING AND PATCHING, cut and patch Gypsum Board Ceiling. Match paint color and sheen
- FS — FIRESTOPPING. Existing rated wall locations shall be cut and patched with a UL Rated Firestopping system. Provide all material, labor, equipment and services necessary to completely install all through-penetration firestop system materials, accessories and other related items.. See Details A7 X/A101, J7 X/A101, A4 X/A101

ABBREVIATIONS

(E)	Existing		
ACT	Acoustical Ceilings, Tile, Suspended,		
GCT	Acoustical Ceilings, Tile, Glue o/ Gyp Bd,		
CP	Cement Plaster Ceiling System		
SCP	Cement Plaster, Suspended Cement Plaster System		
VCP	Cement Plaster, Veneer Cement Plaster System		
SVP	Cement Plaster, Suspended Veneer Cement Plaster		
GB	Gypsum Board		
SGB	Gypsum Board, Suspended, Type X		
MD	Metal Deck, exposed to view.		
Typ.	Typical	Sim.	Similar
Ht	Height	UNO	Unless Noted Otherwise

NOTES

GYPSUM BOARD CEILINGS: Gypsum Board Ceilings Noted As "CLG HT Varies", Gypsum Board is attached to bottom side of structure.

CEMENT PLASTER CEILINGS: Cement Palster Ceilings Noted As "(E) CLG HT Varies", the (E) Cement Plaster is to bottom side of structure.

CEILING ELEVATIONS: All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.

At all Buildings with Fire Alarm Work
CEILING TILE BREAKAGE: Assume 15% acoustical ceiling tile damage and breakage for rooms with acoustical ceiling tiles, and provide new ceiling tiles to match the existing ceiling tiles. The actual ceiling tiles may vary from room to room, based on the date the buildings were contructed.

F18 — Reflected Ceiling Legend

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING A
REFLECTED CEILING PLAN

Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

A/A201

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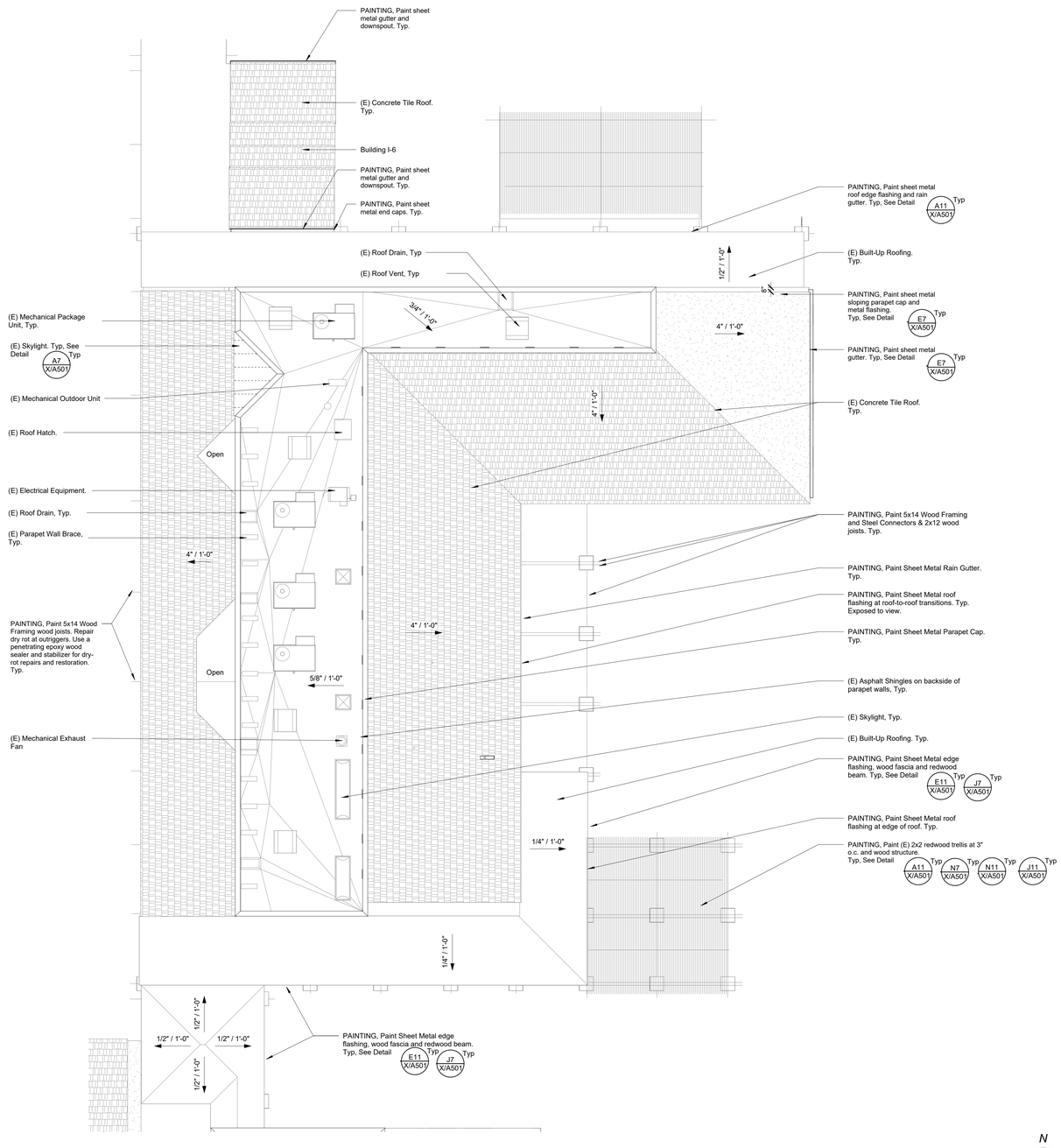

A7
1/8" = 1'-0"

Roof Plan

DSA File No.:
15-95

DSA Application No.:
03-122615

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SYMBOLS

BUILT-UP ROOFING
Cut and Patch existing roofing system.
Match existing roofing system
Determine extents with roof manufacture for warranty

PLUMBING, Roof Drain and Overflow

ROOF ACCESSORIES, Roof Hatch

PV — PLUMBING, Vent

+14'-8" TOP — Elevation above finish floor

7 — Direction of slope

Line of Wall below

Reference Point

LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.

H18
No Scale

Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
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BUILDING A
ROOF PLAN

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Project Number: 2228	Checked By: MF	
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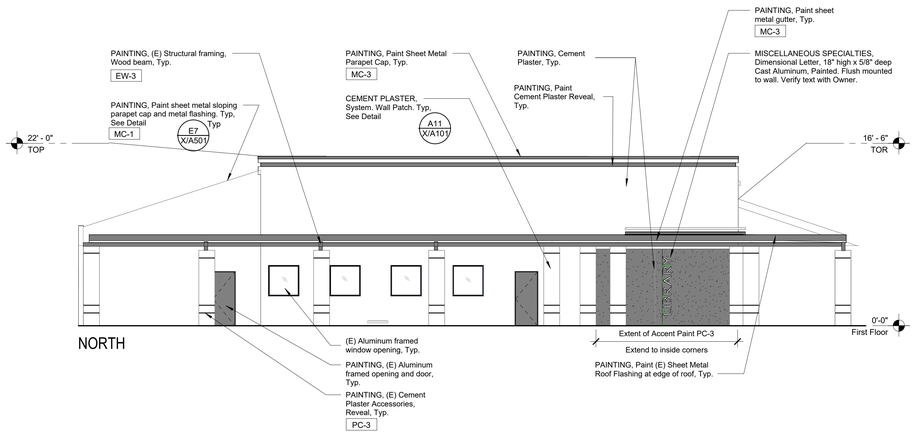
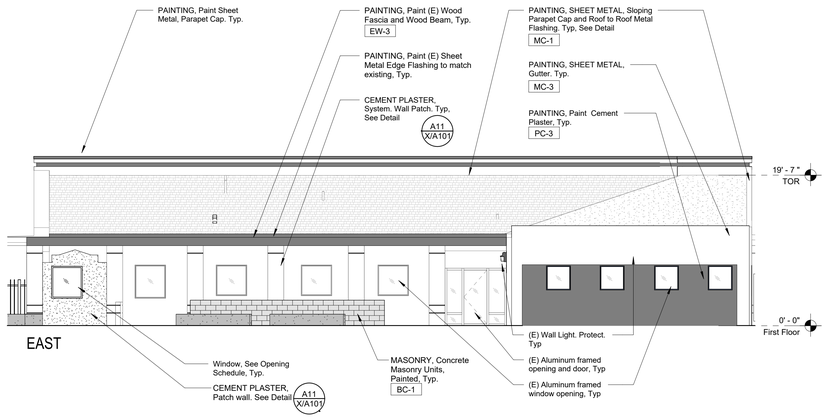


NORTH



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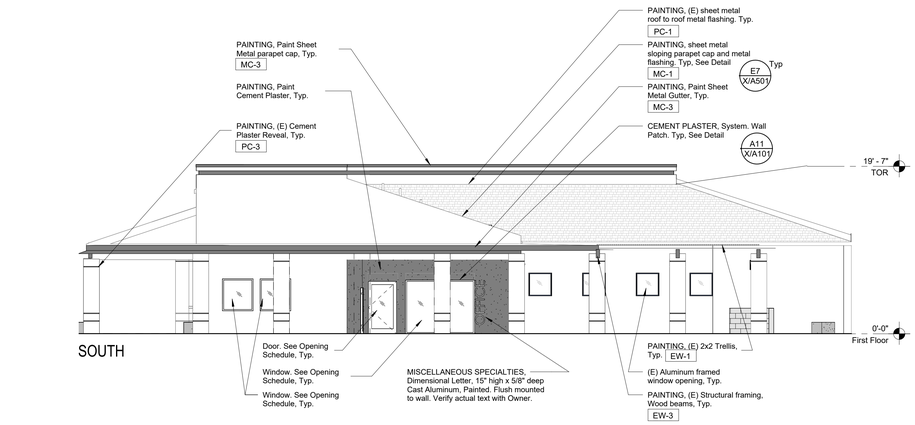

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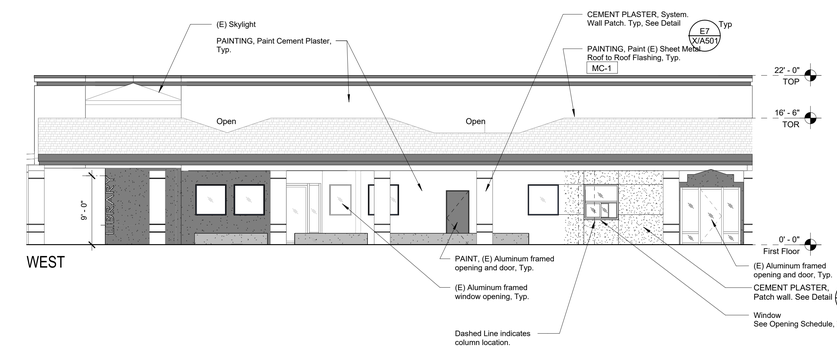

WEST

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EXTERIOR COLOR LEGEND

Plaster Colors

PC-1	White Unless Noted Otherwise
PC-2	Gray
PC-3	Blue
PC-4	Yellow

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Block Colors

BC-1	Gray Unless Noted Otherwise

All Existing Block to be BC-1, UNO.

Wood Colors

EW-1	White
EW-3	Blue

All Existing Wood Beams and Fascia to be EW-3, UNO.
All Existing 2x2 Wood Trellis Slats to be EW-1, UNO.

Door Colors

DC-1	White (NOT USED)
DC-2	(NOT USED)
DC-3	Blue

All (E) "Blue" Metal Doors to be repainted DC-3, UNO.

Metal Colors

MC-1	White Unless Noted Otherwise
MC-2	Gray
MC-3	Blue
MC-4	Match (E) Bronze

All (E) Hollow Metal Frames to be repainted MC-4 to match existing, UNO.
All Steel and Fabrications to match adjacent wall, UNO.

Storefront Colors

SF-1	Match existing bronze

All new storefront to be SF-1, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.
4. Horizontal soffits adjacent to fascia board shall be PC-1, UNO.

Fascia Board
PC-1 UNO.

Outer Face Wall
Soffit
Inner Face Wall

SYMBOLS

H	ELECTRICAL, Horn
S	ELECTRICAL, Speaker
	ELECTRICAL, Outlet
	ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO
	Glass

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typ
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.
4. PAINTING, Repaint all existing exterior surfaces.
5. PAINTING, Repaint all existing gutters, downspouts and leaders MC-3 (Blue).
6. PAINTING, all roof-to-roof flashing to be painted to match adjacent cement plaster.
7. PAINTING, all roof flashing at fascia and edge of tile roof to be painted to match MC-3 (Blue), UNO.

E18
No Scale

Exterior Elevations Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
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EXTERIOR ELEVATIONS

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No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 12/09/2022

A/A401

A1
Exterior Elevations
1/8" = 1'-0"
Refer to E18 for Exterior Color Legend Symbols, Abbreviations and Notes

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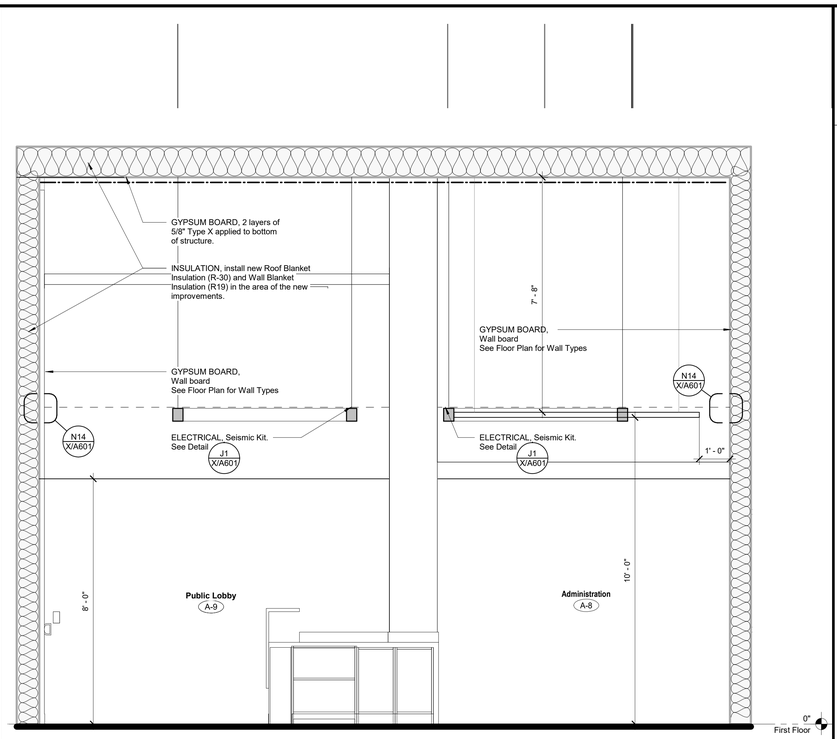
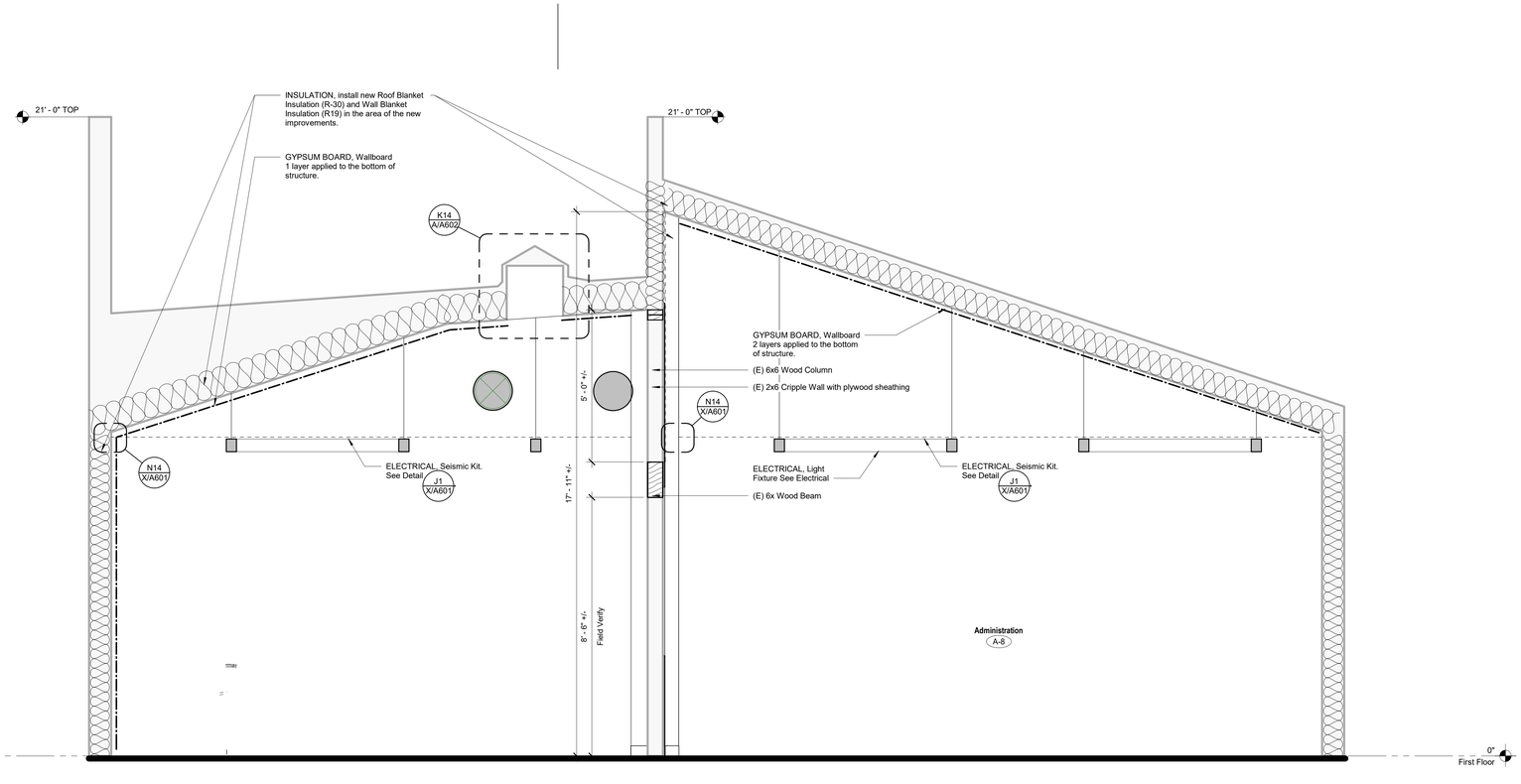


J11 | Building Section
1/2" = 1'-0"



A4 | Building Section
1/2" = 1'-0"

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DSA Application No.: 03-122615

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Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
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BUILDING SECTIONS

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Project Number:	2228	Checked By: MF	
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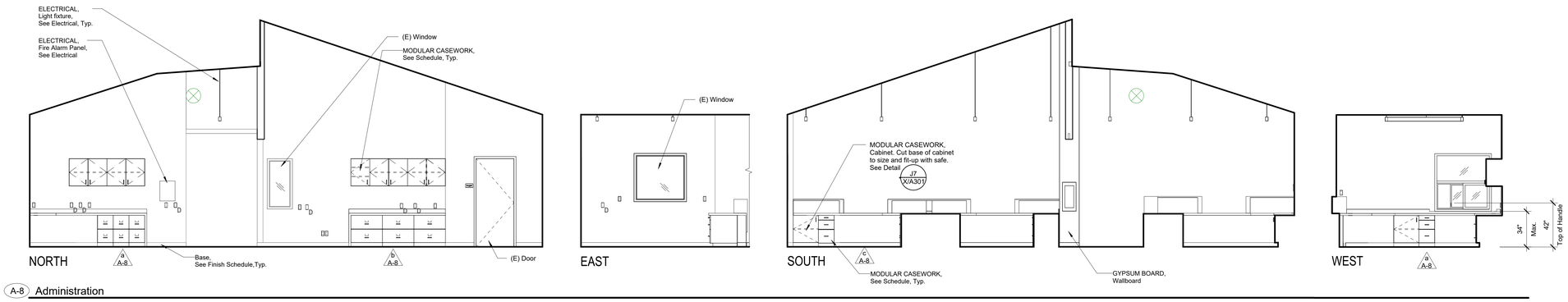
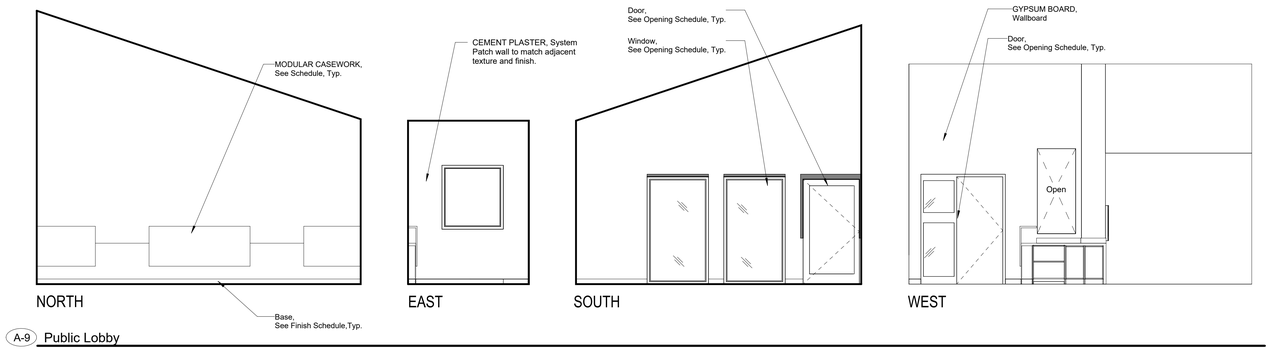
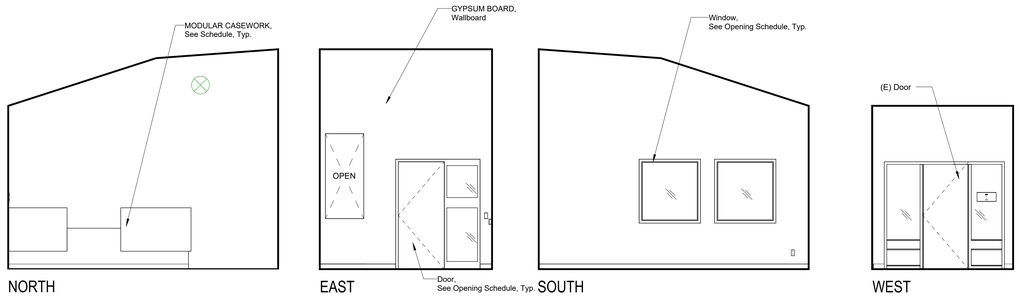


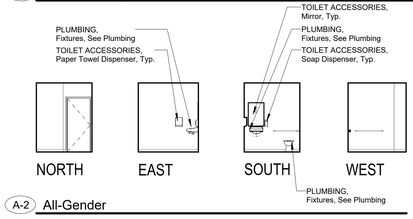
A-8 Administration



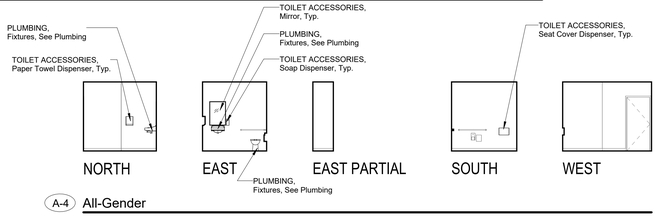
A-9 Public Lobby



A-10 Student Lobby



A-2 All-Gender



A-4 All-Gender

DSA File No.: *15-95*

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SYMBOLS

- a ### — Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
- 10 — Equipment Item No. Refer to Equipment Schedule.
- FEC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls
- FEBC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls.
- ELECTRICAL, Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Outlet +15" AFF (bottom)
- ELECTRICAL, Data +15" AFF (bottom)
- ELECTRICAL, Light Switch +46 AFF (top)
- ELECTRICAL, Microphone Outlet
- ELECTRICAL, Fire Alarm Device
- ELECTRICAL, Intrusion Sensor
- ELECTRICAL, Volume Control
- ELECTRICAL, Motion Sensor
- ELECTRICAL, Television Outlet
- ELECTRICAL, Telephone Outlet
- MECHANICAL, Thermostat +46 AFF (top)
- PLUMBING, Hose Bib

ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
2. Refer to Plumbing, Mechanical,and Electrical for all wall mounted devices and coordinate location and heights with Architectural (ie. casework, equipment, etc.)
3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail A11 X/A601 Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail N14 X/A601 Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail E4 X/A601
6. Locate and mount IDENTIFYING DEVICES per detail E1 X/A702 Unless Noted Otherwise.
7. Provide backing at all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per detail N14 X/A601
8. Attach all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per details L14 X/A301 L11 X/A301
9. WALL COVERINGS, Vinyl Covered Tackboard, See detail N4 X/A601

G18 — Interior Elevation Legend

No Scale

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING A
INTERIOR ELEVATIONS

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No.	Revision/Submission	Date

Revision

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Checked By: MF
Reviewed By: MF

Scale: As indicated
Project Number: 2228
Date: 3/20/2022

A/A601

A1 — Interior Elevations

1/4" = 1'-0"

Refer to G18 for Legend Symbols, Abbreviations, and Notes

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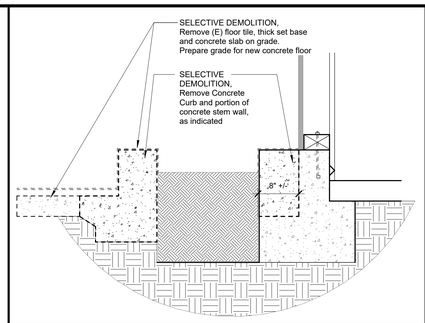
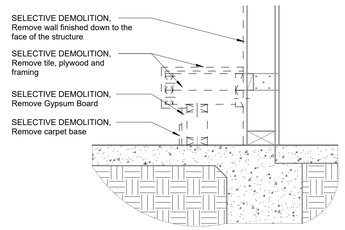
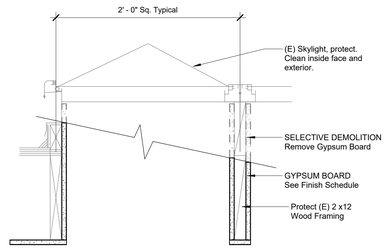


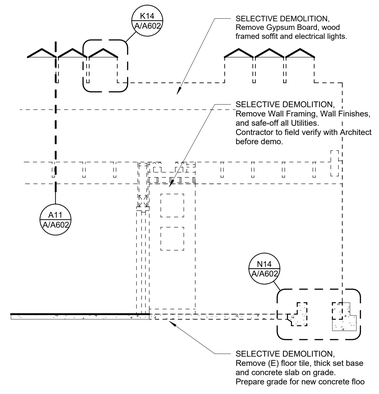
N14
1" = 1'-0"
SELECTIVE DEMOLITION, Planter Detail



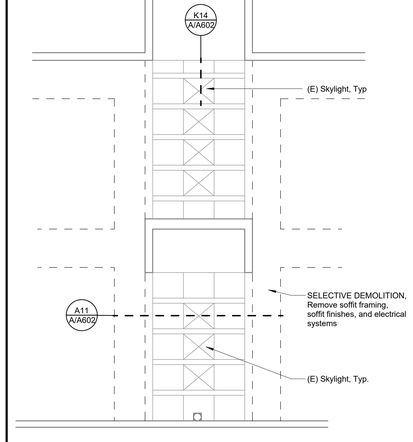
K11
1" = 1'-0"
SELECTIVE DEMOLITION, Bench



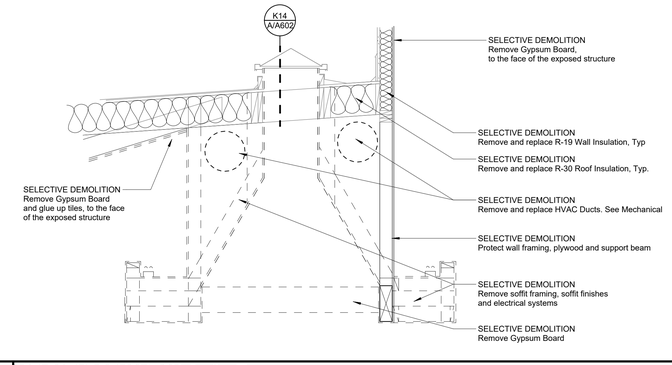
K14
1 1/2" = 1'-0"
GYPSUM BOARD, Detail at Skylight



E11
1/4" = 1'-0"
Partial Section at Lobby



E14
1/4" = 1'-0"
SELECTIVE DEMOLITION, Plan at Lobby Ceiling



A11
1/2" = 1'-0"
SELECTIVE DEMOLITION, Section Thru Skylight

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Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

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INTERIOR DETAILS

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MICHAEL K. FORNARI
No. C23724
Exp. 4-30-23
STATE OF CALIFORNIA

Architect

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Signage Schedule BLDG A									
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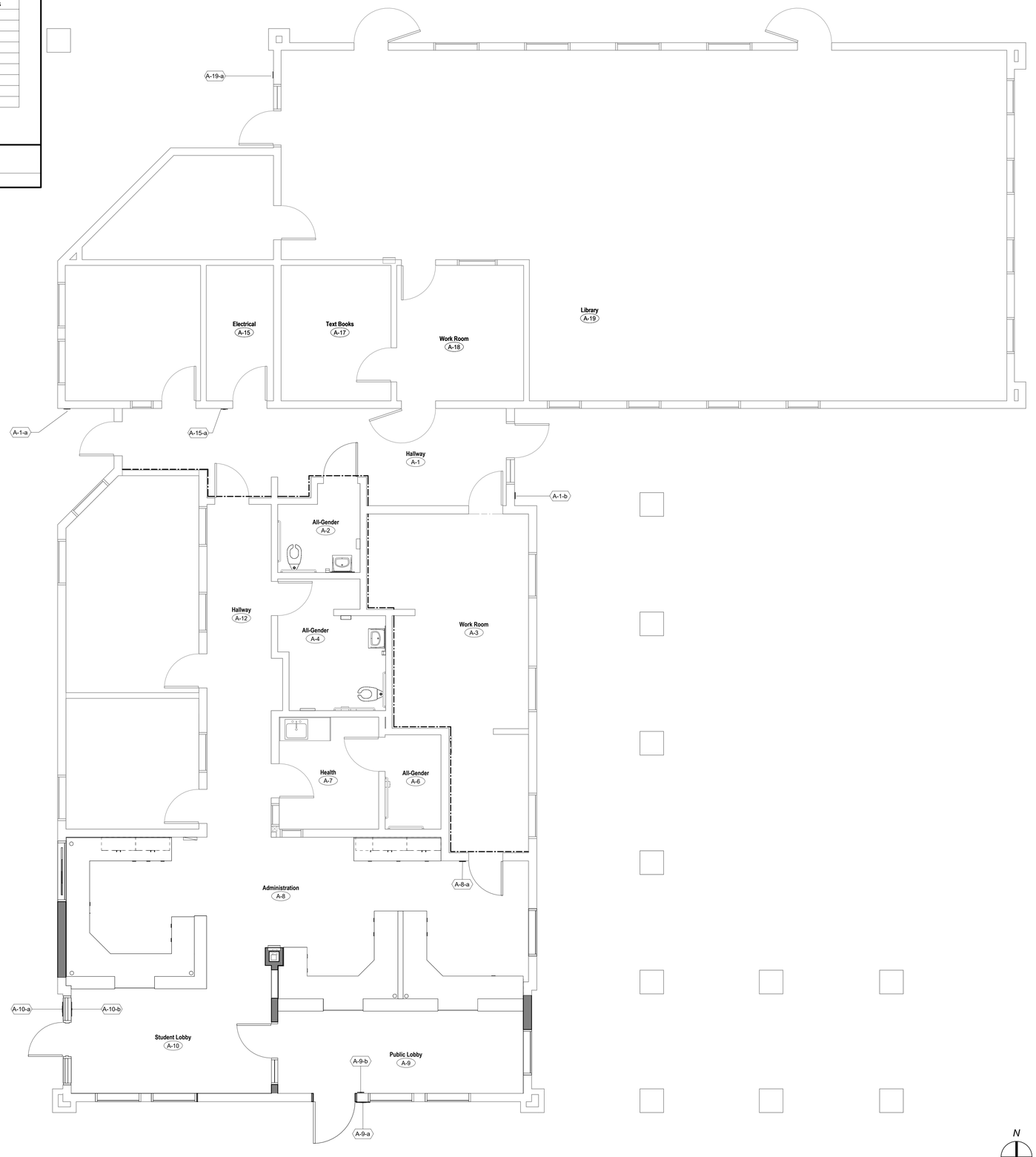
A	A-1-a	1a	A	N/A	N/A	-	1' - 6"	2	-
A	A-1-b	1a	A	N/A	N/A	-	1' - 6"	2	-
A	A-8-a	6a 3 1/2" x 7"	A	NOT AN EXIT	-	-	4' - 11"	2	-
A	A-9-a	6d 7" X 15"	A	ADMINISTRATION	OFFICE	-	4' - 11"	4	-
A	A-9-b	6a 3 1/2" x 7"	A	EXIT	-	-	4' - 11"	2	-
A	A-10-a	6d 7" X 15"	A	ADMINISTRATION	OFFICE	-	4' - 11"	4	-
A	A-10-b	6d 7" X 15"	A	EXIT	-	-	4' - 11"	4	-
A	A-15-a	6c 7" x 7"	A	FACP	EVAC	PANEL	4' - 11"	2	-
A	A-19-a	1a	A	N/A	N/A	-	1' - 6"	2	-

P1 | Signage Schedule

NO SCALE



A1 | Signage Plan, Building A

1/4" = 1'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

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DATE: 07/20/2023

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MOUNTING CONDITION

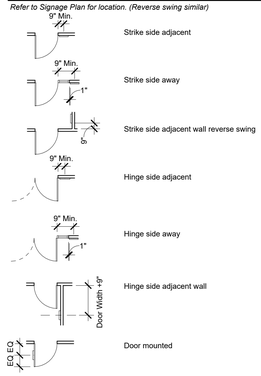
1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

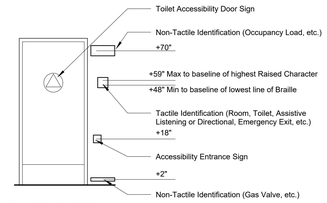
SIGN MATERIAL

A	=	Acrylic
EM	=	Exterior Metal.
IM	=	Interior Metal.
EP	=	Exterior Plastic.
IP	=	Interior Plastic.
D	=	Decal.

MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)





Typical Mounting Heights

Scale: N.T.S.

NOTES

1. Refer to Specification Section 10 14 00 IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. Verify Sign Copy with Owner prior to fabrication, "-" indicates a blank space
4. Sign copy shall say "Classroom X", Room number shall be determined by Owner.
5. IDENTIFYING DEVICES, For Height, Mounting Condition, and Sign Description, refer to Detail E1 / X/A702

G18 | Signage Schedule Legend

No Scale

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING A
SIGNAGE PLAN AND SCHEDULE

Drawing

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LICENSED ARCHITECT
MICHAEL K. FERGUSON
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Scale: As indicated
Project Number: 2228
Date: 3/20/2022

Designed By: KX
Drawn By: KX
Checked By: MF
Reviewed By: MF

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A/A701

5/26/2023 11:18:50 AM
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SYMBOLS

- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- Room name 101 — Room Designation
- F1 — Demolition Key Note Symbol

NOTES

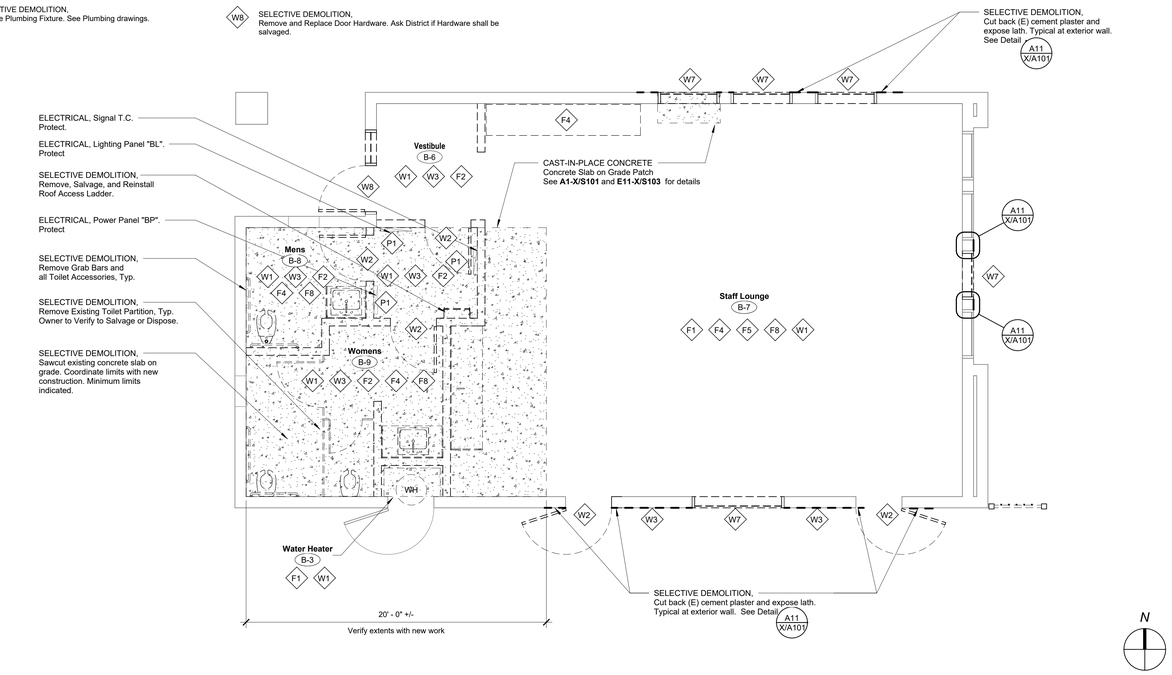
1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
2. Remove materials, equipment, and finishes indicated by demolition key notes
3. All Concrete removed shall be within sawcut lines or Existing expansion / control joint lines.
4. Coordinate removal of door hardware with HARDWARE in the specifications.
5. Where Demolition work is indicated, Contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
6. Any damage resulting from the modernization activity shall be corrected at no additional expense to the Owner and all surfaces cleaned and readied to receive new work.
7. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
8. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
9. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendations to the Architect.

H4 — Demolition Floor Plan Legend

NO SCALE

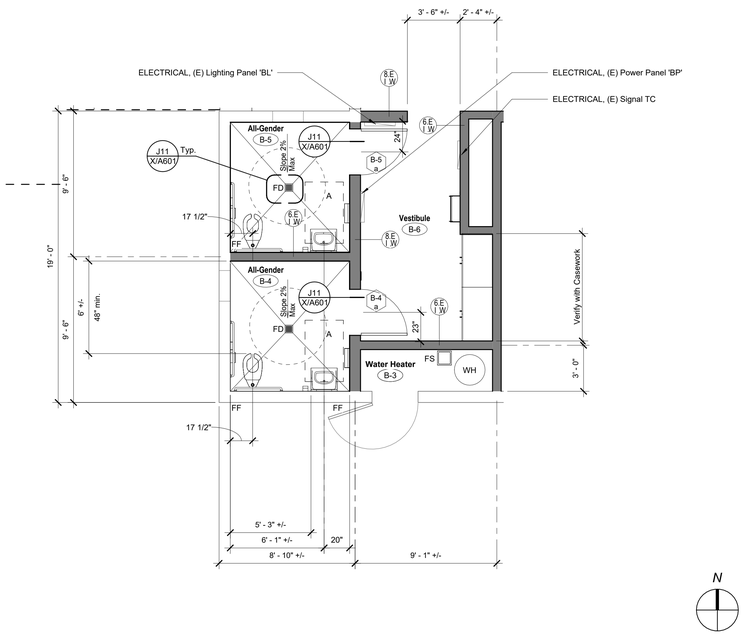
DEMOLITION NOTES

- F1 — SELECTIVE DEMOLITION, Remove Existing Floor Finishes, Wall Base and Glues.
- F2 — SELECTIVE DEMOLITION, Remove (E) floor tile, thick set base and concrete slab on grade. Prepare grade for new concrete floor.
- F4 — SELECTIVE DEMOLITION, Remove Casework, Counters, Bases and Fasteners.
- F5 — SELECTIVE DEMOLITION, Water Blast Floor after all Floor Finishes, Casework, etc, are removed.
- F8 — SELECTIVE DEMOLITION, Remove Plumbing Fixture. See Plumbing drawings.
- W1 — SELECTIVE DEMOLITION, Remove Wall Finishes down to the Face of the Studs.
- W2 — SELECTIVE DEMOLITION, Remove Door and Door Frame. Ask District if hardware shall be salvaged.
- W3 — SELECTIVE DEMOLITION, Remove Wall Framing, Wall Finishes, and safe-off all Utilities. Contractor to field verify with Architect before demo.
- W7 — SELECTIVE DEMOLITION, Remove Existing window and window frame. Prepare for new wall infill and/or new opening.
- W8 — SELECTIVE DEMOLITION, Remove and Replace Door Hardware. Ask District if Hardware shall be salvaged.
- P1 — SELECTIVE DEMOLITION, Protect electrical panels and pathway. Provide shoring for panel while new framing is installed.



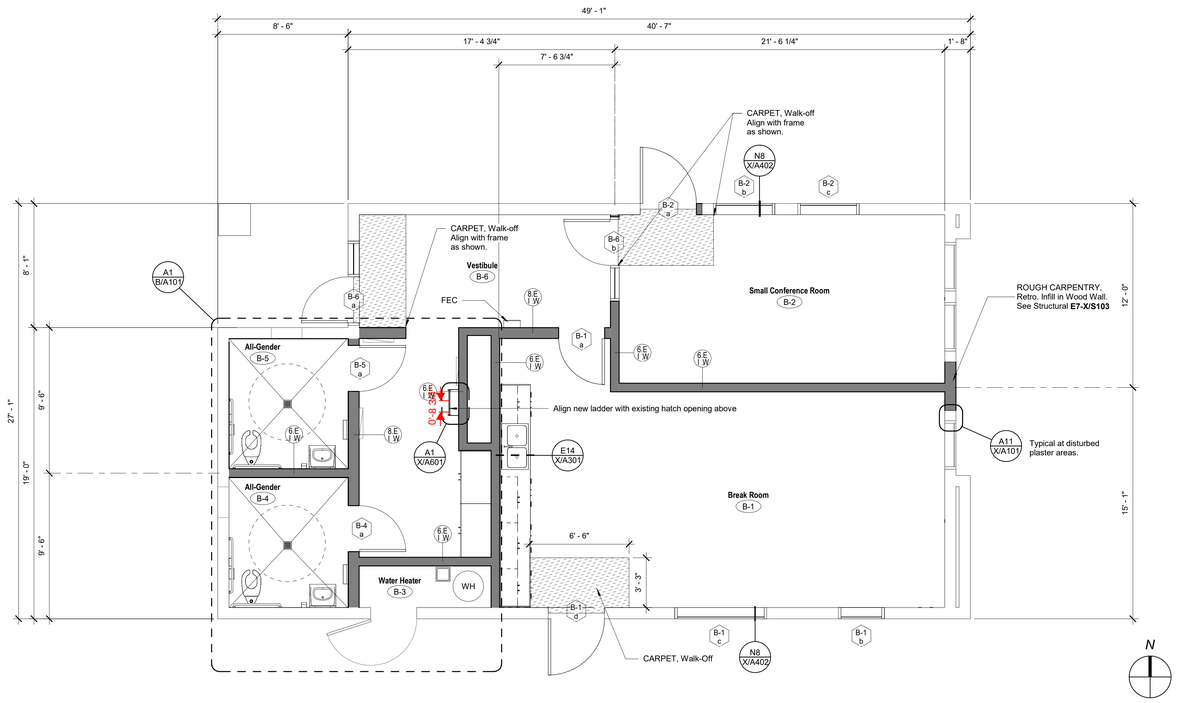
H7 — Demolition Floor Plan

1/4" = 1'-0"



A1 — Enlarged Restroom Floor Plan

1/4" = 1'-0"



A7 — Floor Plan

1/4" = 1'-0"

DSA File No.: 15-95

DSA Application No.: 03-122615

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APP: 03-122615 INC:
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DATE: 07/20/2023

Agency Approval

SYMBOLS

- (E) Stud Framed Wall to Remain, Typical
- Stud Wall, Studs, and Interior Wall.
- 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- 1 Hr. Occupancy Separation / Fire Barrier - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
- 101 a — Opening Group No. Refer to Door or Window Opening Schedules
- Eq Mark — Equipment Item No. Refer to Equipment Schedule
- Room name 101 — Room Designation
- # # / # — Wall Assembly Symbols. Refer to Sheet X/A101
- Reference Point

ABBREVIATIONS

FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise.
FF	Face of Finish
FOC	Face of Concrete
FD	Floor Drain
FOM	Face of Masonry
FOS	Face of Stud
FS	Floor Sink
HB	Hose Bib
MO	Masonry Opening
UNO	Unless Noted Otherwise
RO	Rough Opening
VCT	RESILIENT FLOORING, Vinyl Composition Tile
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

NOTES

1. Vertical lifts will be required for the installation of some of the pathway with high ceilings. Verify the type of the lift with fit through the available opening widths; the vertical mullions for the double doors are removable. Paint Hollow Metal Door & Frames that are damaged.
2. When lifts are use in BLDG H and K, they shall have non-marring wheels. Lifts shall be placed on 3/4" thick plywood, and not on the Gym or MPR floor.
4. All Exterior Walls shall be Wall Assembly Type 6.B / E.M Unless Noted Otherwise.
5. All Interior Walls shall be Wall Assembly Type 6.E / I.M Unless Noted Otherwise.
6. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
7. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
8. Dimensions noted as "+/-" are nominal.
9. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
10. IDENTIFYING DEVICES, For Room Signage refer E1/X/A702 to and Specifications

H18 — Floor Plan Legend

No Scale

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING B
DEMOLITION FLOOR AND FLOOR PLAN

Drawing

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Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright 2023 Darden Architects
Scale:	As indicated	Drawn By: KX	B/A101
Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

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DEMOLITION NOTES

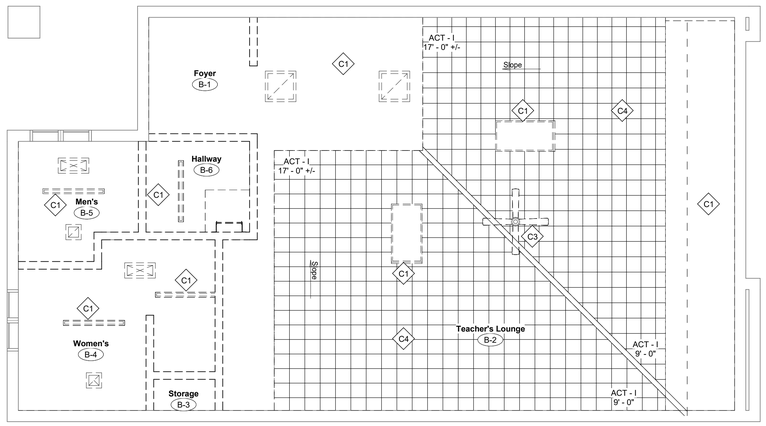
- C1 — SELECTIVE DEMOLITION, Remove Gypsum Board, wood framed soffit and electrical lights.
- C3 — SELECTIVE DEMOLITION, Remove ceiling fan. Ask District if fan shall be salvaged.
- C4 — SELECTIVE DEMOLITION, Remove and Salvage Existing Ceiling Tiles, for Painting.

SYMBOLS

- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- Room name 101 — Room Designation
- F1 — Demolition Key Note Symbol

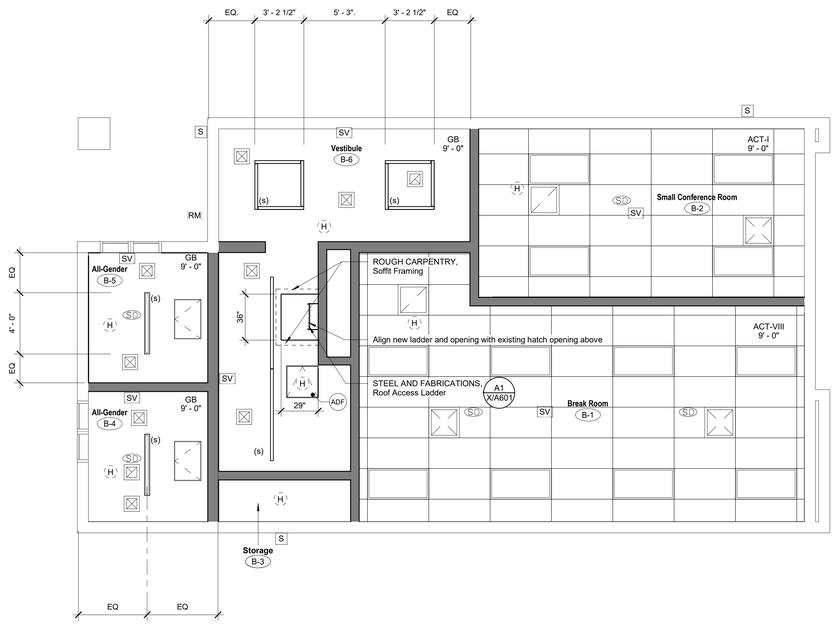
NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications.
2. Remove materials, equipment, and finishes indicated by demolition key notes.
3. Where Demolition work is indicated, Contractor shall remove and reinstall any or all items necessary for installation of new work. existing area affected by demolition work shall be patched and repaired to match existing construction.
4. Any damage resulting from the modernization activity shall be corrected at no additional expense to the Owner and all surfaces cleaned and readied to receive new work.
5. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
6. Where new work abuts or aligns with existing, make a smooth and even transition. Patch work shall match existing adjacent work in texture and appearance.
7. When finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surfaces along a straight line at a natural line of division and make recommendations to the Architect.



N

J7 — Demolition Reflected Ceiling Plan
1/4" = 1'-0"



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A7 — Reflected Ceiling Plan
1/4" = 1'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

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DATE: 07/20/2023
Agency Approval

SYMBOLS

- MECHANICAL, Air Supply Grill
- MECHANICAL, Air Return Grill
- MECHANICAL, Strip Grill
- MECHANICAL, Exhaust Fan
- FIRE PROTECTION, Fire Sprinkler Head
- OD — PLUMBING, Overflow Drain
- ACOUSTICAL CEILINGS, Suspended Ceiling Splay Wire location
- ROOF ACCESSORIES, Roof Hatch
- ELECTRICAL, Light Fixture, Recessed. Unless Noted Otherwise. (p) = Pendant Mounted (s) = Surface Mounted
- ELECTRICAL, Light Fixture. Wall Mounted
- ELECTRICAL, Light Fixture, Linear
- H SD SV — ELECTRICAL, Fire Alarm Device
- S S — ELECTRICAL, Fire Alarm Speaker
- CEMENT PLASTER, Cement Plaster System
- ACCESS DOORS AND FRAMES, Ceiling Access or new ACCESS DOORS AND FRAMES, Ceiling Access where required for new Fire Alarm Devices
- 1 Hr. Corridor Wall - (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- 1 Hr. Occupancy Separation / Fire Partition - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
- ADF — ACCESS DOORS AND FRAMES, Ceiling Access. See Symbols above
- C&P — CUTTING AND PATCHING, Cut and Patch Gypsum Board Ceiling. Match paint color and sheen
- FS — FIRESTOPPING. Existing rated wall locations shall be cut and patched with a UL Rated Firestopping system. Provide all material, labor, equipment and services necessary to completely install all through-penetration firestop system materials, accessories and other related items.. See Details A7/X/A101, J7/X/A101, A4/X/A101

ABBREVIATIONS

(E)	Existing
ACT	Acoustical Ceilings, Tile, Suspended,
GCT	Acoustical Ceilings, Tile, Glue o/ Gyp Bd,
CP	Cement Plaster Ceiling System
SCP	Cement Plaster, Suspended Cement Plaster System
VCP	Cement Plaster, Veneer Cement Plaster System
SVP	Cement Plaster, Suspended Veneer Cement Plaster
GB	Gypsum Board
SGB	Gypsum Board, Suspended, Type X
MD	Metal Deck, exposed to view.
Typ.	Typical
Sim.	Similar
Ht	Height
UNO	Unless Noted Otherwise

NOTES

CEILING TILE BREAKAGE: Assume 15% acoustical ceiling tile damage and breakage for rooms with acoustical ceiling tiles, and provide new ceiling tiles to match the existing ceiling tiles. The actual ceiling tiles may vary from room to room, based on the date the buildings were constructed.

FIRE ALARM SYMBOLS: Refer to the Floor Plan Legend for FIRE ALARM Device Symbols and scope of work.

GYPSUM BOARD CEILINGS: Gypsum Board Ceilings Noted As "CLG HT Varies", Gypsum Board is attached to bottom side of structure.

CEILING ELEVATIONS: All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.

F18 — Reflected Ceiling Legend

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING B
DEMOLITION AND REFLECTED CEILING PLAN

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LICENSED ARCHITECT MICHAEL K. FRANCIS No. C23724 Exp. 4-30-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 3/20/2022

B/A201

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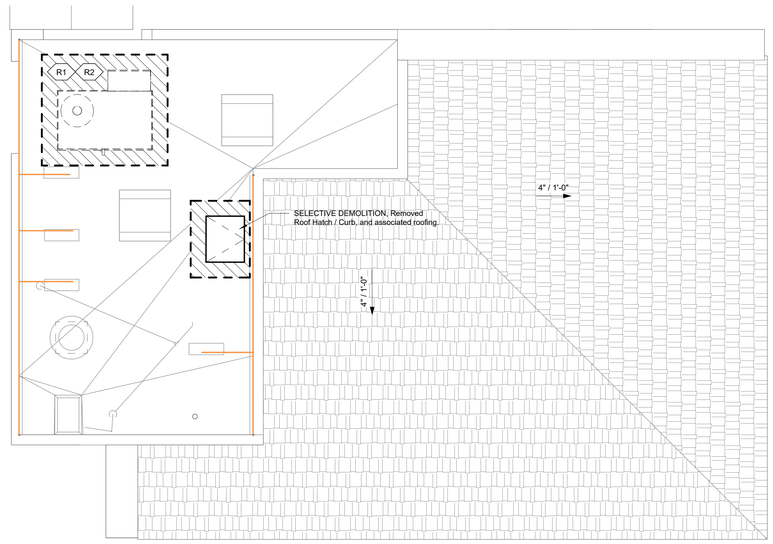

DEMOLITION NOTES

R1 Cut and Patch existing Built-Up Roofing system. Refer to the Roof Plan Legend for notes on the extents.

R2 Contractor to Verify Limits of Demolition.

N

A7
1/4" = 1'-0"
Demolition Roof Plan

DSA File No.:
15-95

DSA Application No.:
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SYMBOLS

BUILT-UP ROOFING
Cut and Patch existing roofing system.
Match existing roofing system
Determine extents with roof manufacture for warranty

PLUMBING, Roof Drain and Overflow

ROOF ACCESSORIES, Roof Hatch

PV — PLUMBING, Vent

+14'-6" TOP — Elevation above finish floor

7 — Direction of slope

Line of Wall below

Reference Point

LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.

H18
No Scale
Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313
Project

BUILDING B
DEMOLITION ROOF PLAN
Drawing

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LICENSED ARCHITECT
MICHAEL K. FORNARI
No. C23724
Exp. 4-30-23
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

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	Designed By: MF	Copyright G002 Darden Architects
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Project Number: 2228	Checked By: KX	
Date: 12/09/2022	Reviewed By: MF	

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DSA File No.:
15-95

DSA Application No.:
03-122615

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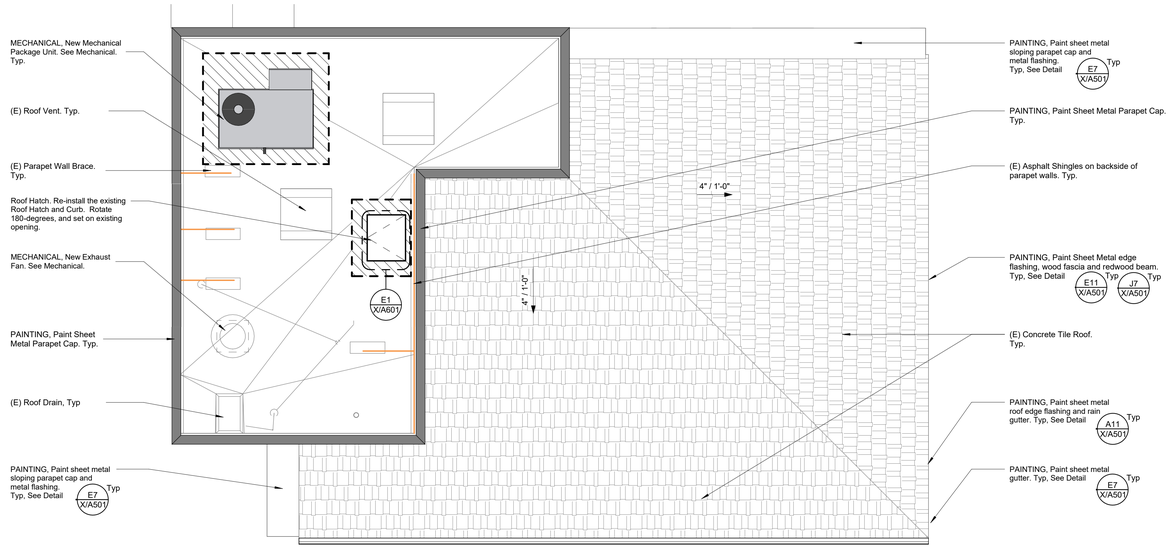

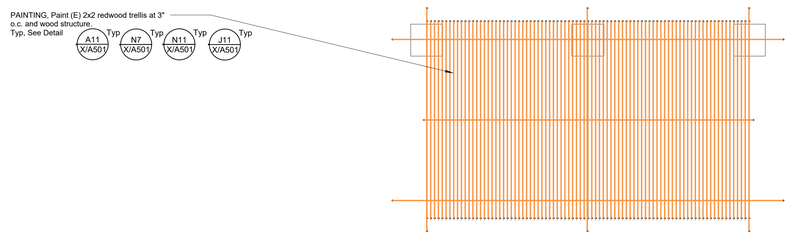

N

A7
1/4" = 1'-0"
Roof Plan

SYMBOLS

	BUILT-UP ROOFING Cut and Patch existing roofing system. Match existing roofing system Determine extents with roof manufacture for warranty
	PLUMBING, Roof Drain and Overflow
	ROOF ACCESSORIES, Roof Hatch
PV	PLUMBING, Vent
+14'-6" TOP	Elevation above finish floor
7	Direction of slope
	Line of Wall below
	Reference Point
	LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.

H18
No Scale

Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING B
ROOF PLAN

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		Designed By: MF	Copyright G002 Darden Architects
Scale:	As indicated	Drawn By: CC	B/A302
Project Number:	2228	Checked By: MF	
Date:	12/09/2022	Reviewed By: MF	

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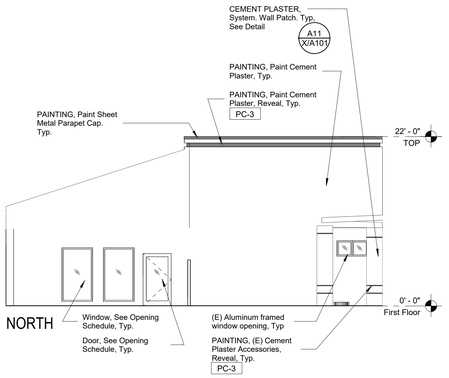

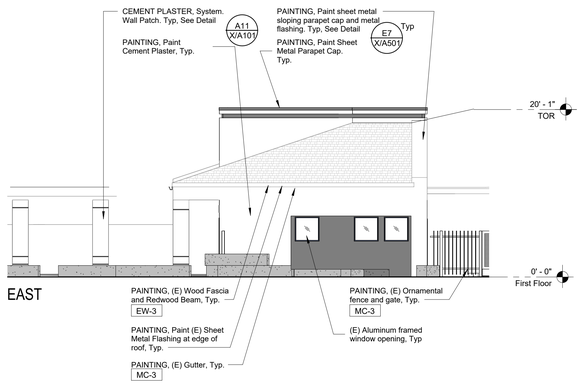

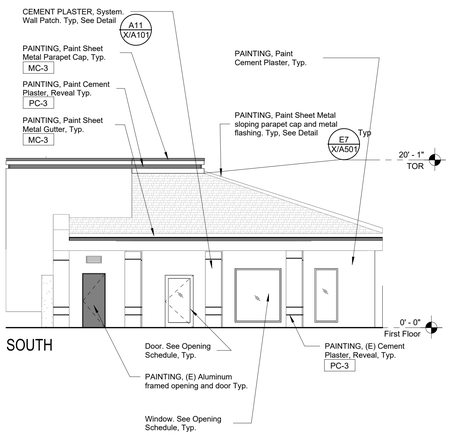

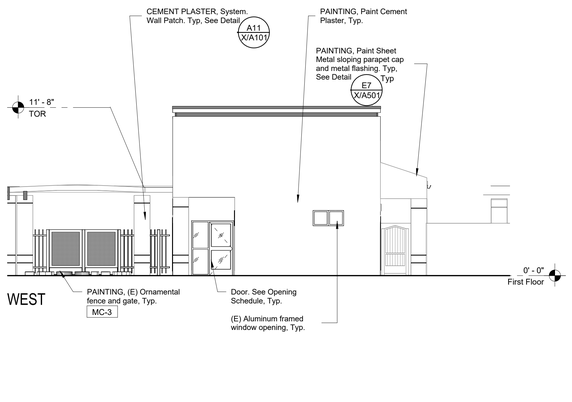

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EXTERIOR COLOR LEGEND

Plaster Colors

PC-1	White Unless Noted Otherwise
PC-2	Gray
PC-3	Blue
PC-4	Yellow

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Block Colors

BC-1	Gray Unless Noted Otherwise

All Existing Block to be BC-1, UNO.

Wood Colors

EW-1	White
EW-3	Blue

All Existing Wood Beams and Fascia to be EW-3, UNO.
All Existing 2x2 Wood Trellis Slats to be EW-1, UNO.

Door Colors

DC-1	White (NOT USED)
DC-2	(NOT USED)
DC-3	Blue

All (E) "Blue" Metal Doors to be repainted DC-3, UNO.

Metal Colors

MC-1	White Unless Noted Otherwise
MC-2	Gray
MC-3	Blue
MC-4	Match (E) Bronze

All (E) Hollow Metal Frames to be repainted MC-4 to match existing, UNO.
All Steel and Fabrications to match adjacent wall, UNO.

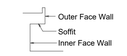
Storefront Colors

SF-1	Match existing bronze

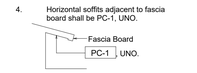
All new storefront to be SF-1, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.



4. Horizontal soffits adjacent to fascia board shall be PC-1, UNO.



SYMBOLS

H	ELECTRICAL, Horn		Glass
S	ELECTRICAL, Speaker		
	ELECTRICAL, Outlet		
	ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO		

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typ
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.
4. PAINTING, Repaint all existing exterior surfaces.
5. PAINTING, Repaint all existing gutters, downspouts and leaders MC-3 (Blue).
6. PAINTING, all roof-to-roof flashing to be painted to match adjacent cement plaster.
7. PAINTING, all roof flashing at fascia and edge of tile roof to be painted to match MC-3 (Blue), UNO.

E18
No Scale

Exterior Elevations Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING B
EXTERIOR ELEVATIONS

Drawing

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LICENSED ARCHITECT MICHAEL K. FERRARI No. C23724 Exp. 4-30-24 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

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Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

Scale: As indicated
Project Number: 2228
Date: 12/09/2022

B/A401

A1
Existing Exterior Elevations
1/8" = 1'-0"
Refer to E18 for Exterior Color Legend Symbols, Abbreviations and Notes

5/26/2023 11:22:49 AM
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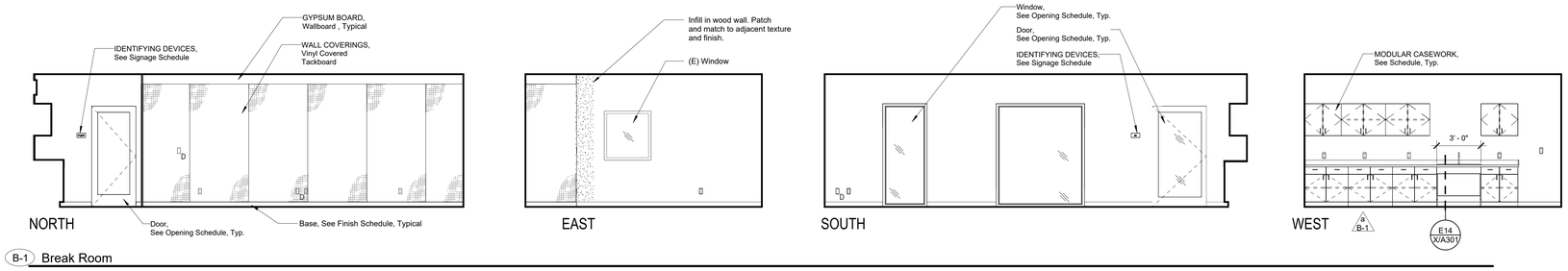
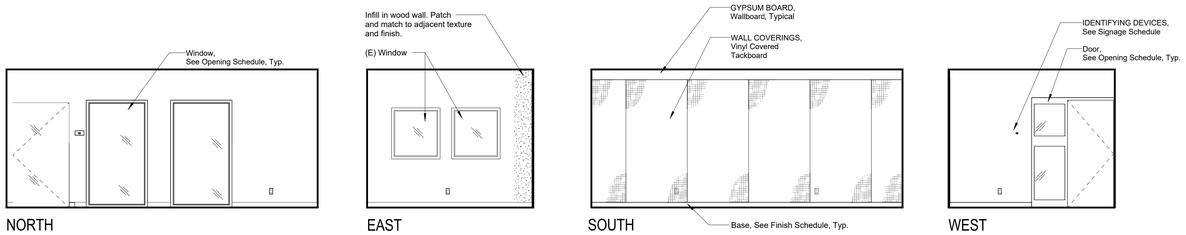
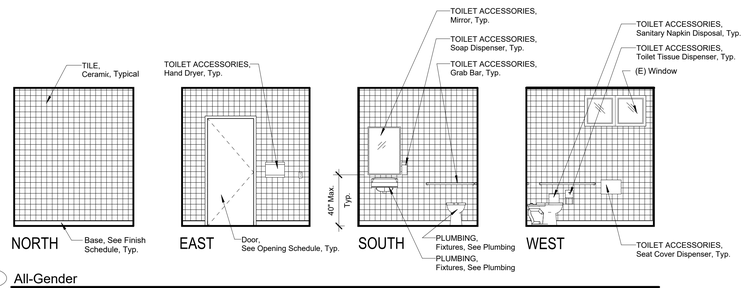


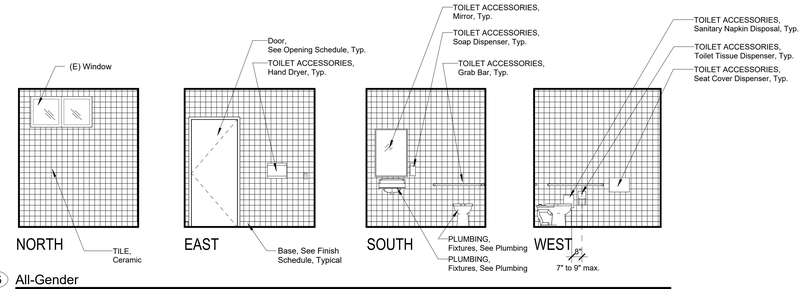
B-1 Break Room



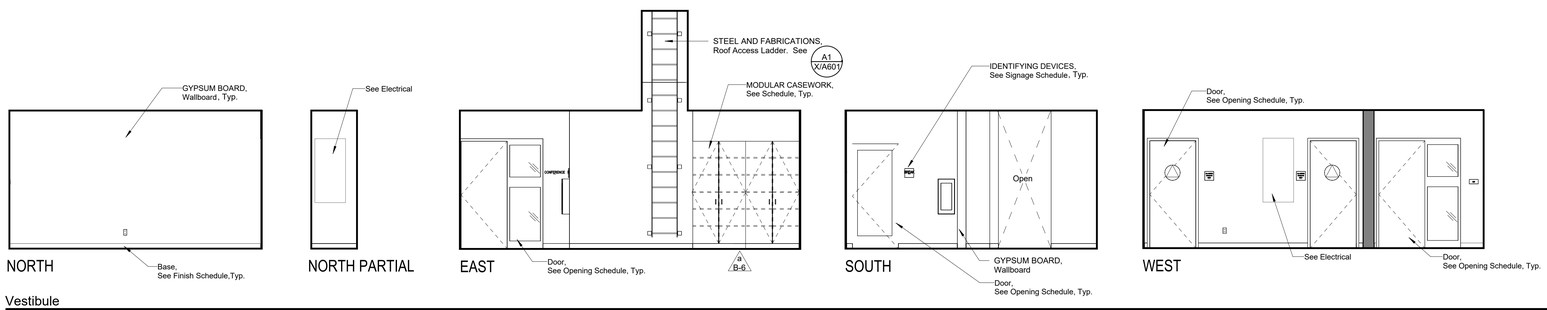
B-2 Small Conference Room



B-4 All-Gender



B-5 All-Gender



B-6 Vestibule

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

- a ### — Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
- 10 — Equipment Item No. Refer to Equipment Schedule.
- FEC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls
- FEBC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls.
- ELECTRICAL, Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Outlet +15" AFF (bottom)
- ELECTRICAL, Light Switch +46 AFF (top)
- FA — ELECTRICAL, Fire Alarm Device
- V — ELECTRICAL, Volume Control
- TV — ELECTRICAL, Television Outlet
- T — MECHANICAL, Thermostat +46 AFF (top)
- HB — PLUMBING, Hose Bib
- D — ELECTRICAL, Data +15" AFF (bottom)
- M — ELECTRICAL, Microphone Outlet
- IS — ELECTRICAL, Intrusion Sensor
- MS — ELECTRICAL, Motion Sensor
- ELECTRICAL, Telephone Outlet

ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
2. Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (ie. casework, equipment, etc.)
3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail A11 X/A601 Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail N14 X/A601 Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail E4 X/A601
6. Locate and mount IDENTIFYING DEVICES per detail E1 X/A702 Unless Noted Otherwise.
7. Provide backing at all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per detail N14 X/A601
8. Attach all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per details L14 X/A301 L11 X/A301
9. WALL COVERINGS, Vinyl Covered Tackboard, See detail N4 X/A601

G18	Interior Elevation Legend
No Scale	

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING B
INTERIOR ELEVATIONS

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LICENSED ARCHITECT MICHAEL K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright 2022 Darden Architects
Scale: 1/4" = 1'-0"	Drawn By: SS	B/A601
Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

A1	Interior Elevations
1/4" = 1'-0"	Refer to G18 for Legend Symbols, Abbreviations and Notes

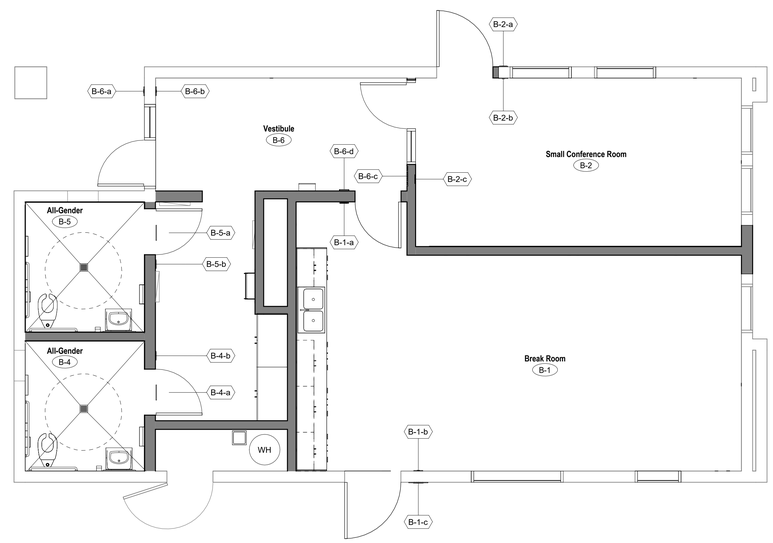
5/26/2023 9:45:11 AM
C:\Users\Kennethx\Documents\2228_Warren_JHS_Mod_Phase_1_MASTER_V23_kennethxM8EKW.rvt

Signage Schedule Building B								
Building	Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Mtg Height	Mtg Cond	Remarks
B	B-1-a	6a 3 1/2" x 7"	A	NOT AN EXIT	-	4' - 11"	2	-
B	B-1-b	6a 3 1/2" x 7"	A	EXIT	-	4' - 11"	2	-
B	B-1-c	5b 7" x 15"	A	BREAK	ROOM	4' - 11"	2	-
B	B-2-a	6a 3 1/2" x 7"	A	CONFERENCE	ROOM	4' - 11"	2	-
B	B-2-b	6a 3 1/2" x 7"	A	EXIT	-	4' - 11"	2	-
B	B-2-c	6a 3 1/2" x 7"	A	EXIT	-	4' - 11"	2	-
B	B-4-a	2d Circle - Unisex	A	-	-	4' - 11"	5	-
B	B-4-b	6c 7" x 7"	A	ALL-GENDER	RESTROOM	4' - 11"	2	-
B	B-5-a	2d Circle - Unisex	A	-	-	4' - 11"	5	-
B	B-5-b	6c 7" x 7"	A	ALL-GENDER	RESTROOM	4' - 11"	2	-
B	B-6-a	6a 3 1/2" x 7"	A	BREAK	ROOM	4' - 11"	2	-
B	B-6-b	6a 3 1/2" x 7"	A	EXIT	-	4' - 11"	2	-
B	B-6-c	5a 7" x 7"	A	CONFERENCE	ROOM	4' - 11"	2	-
B	B-6-d	5a 7" x 7"	A	BREAK	ROOM	4' - 11"	2	-

N7

NO SCALE

Signage Schedule



N

E7

1/4" = 1'-0"

Signage Floor Plan, Building B

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

MOUNTING CONDITION

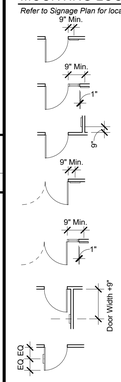
1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

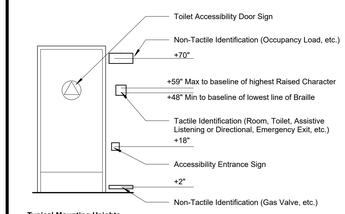
SIGN MATERIAL

A	=	Acrylic
EM	=	Exterior Metal.
IM	=	Interior Metal.
EP	=	Exterior Plastic.
IP	=	Interior Plastic.
D	=	Decal.

MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)





Typical Mounting Heights

Scale: N.T.S.

NOTES

1. Refer to Specification Section 10 14 00 IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. Verify Sign Copy with Owner prior to fabrication, "-" indicates a blank space
4. Sign copy shall say "Classroom X". Room number shall be determined by Owner.
5. IDENTIFYING DEVICES, For Height, Mounting Condition, and Sign Description, refer to Detail E1 / X/A702

G18

No Scale

Signage Schedule Legend

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING B
SIGNAGE PLAN AND SCHEDULE

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LICENSED ARCHITECT
MICHAEL K. FERGUSON
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: KX

Drawn By: KX

Checked By: MF

Reviewed By: MF

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Scale: As indicated

Project Number: 2228

Date: 3/20/2022

B/A701

5/26/2023 9:45:12 AM
C:\Users\Kennethx\Documents\2228_Warren_JHS_Mod_Phase_1_MASTER_V23_kennethxM8EKW.rvt

DSA File No.:
15-95

DSA Application No.:
03-122615

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SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

BUILT-UP ROOFING
Cut and Patch existing roofing system.
Match existing roofing system
Determine extents with roof manufacture for warranty

PLUMBING, Roof Drain and Overflow

ROOF ACCESSORIES, Roof Hatch

PV — PLUMBING, Vent

+14'-6" TOP — Elevation above finish floor

7 — Direction of slope

Line of Wall below

Reference Point

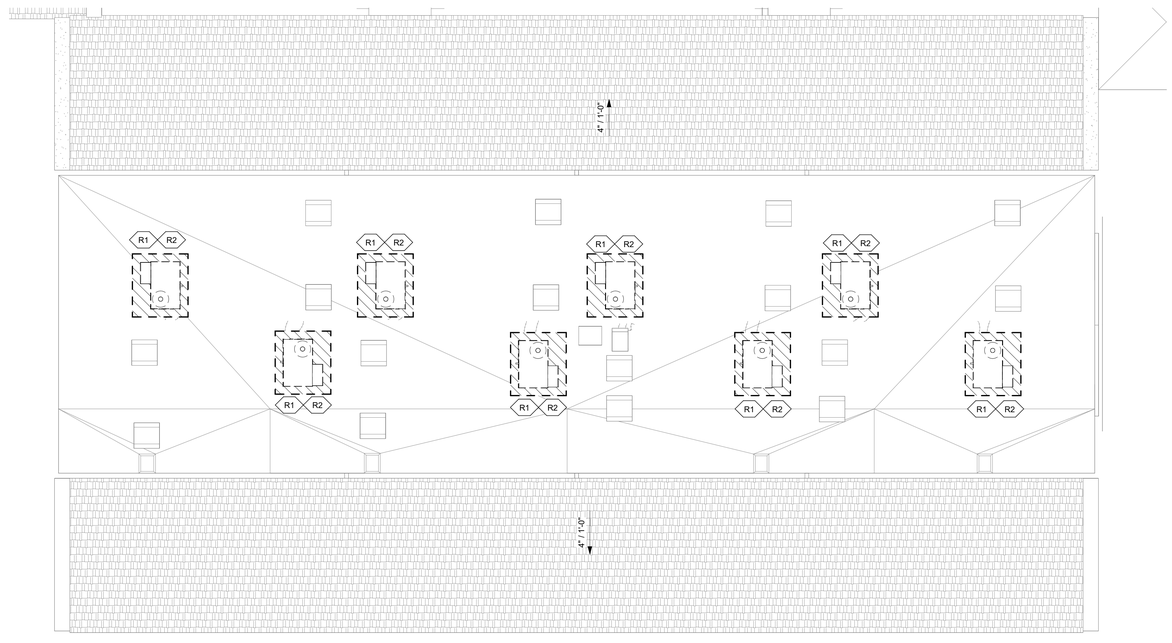
LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.



DEMOLITION NOTES

R1 — Cut and Patch existing Built-Up Roofing system. Refer to the Roof Plan Legend for notes on the extents.

R2 — Contractor to Verify Limits of Demolition.

N

A7
1/8" = 1'-0"
Demolition Roof Plan

H18
No Scale
Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313
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DEMOLITION ROOF PLAN
Drawing

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LICENSED ARCHITECT
MICHAEL K. FERRARO
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright G002 Darden Architects
Scale:	1/8" = 1'-0"	Drawn By: CC	C/A301
Project Number:	2228	Checked By: KX	
Date:	12/09/2022	Reviewed By: MF	

5/26/2023 11:22:51 AM
D:\2228_WarrenJHS_APEX_SITE_V23_Carlic47RBP.rvt

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

BUILT-UP ROOFING
Cut and Patch existing roofing system.
Match existing roofing system
Determine extents with roof manufacture for warranty

PLUMBING, Roof Drain and Overflow

ROOF ACCESSORIES, Roof Hatch

PV — PLUMBING, Vent

+14'-6" TOP — Elevation above finish floor

7 — Direction of slope

Line of Wall below

Reference Point

LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
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OD	PLUMBING, Overflow Drain
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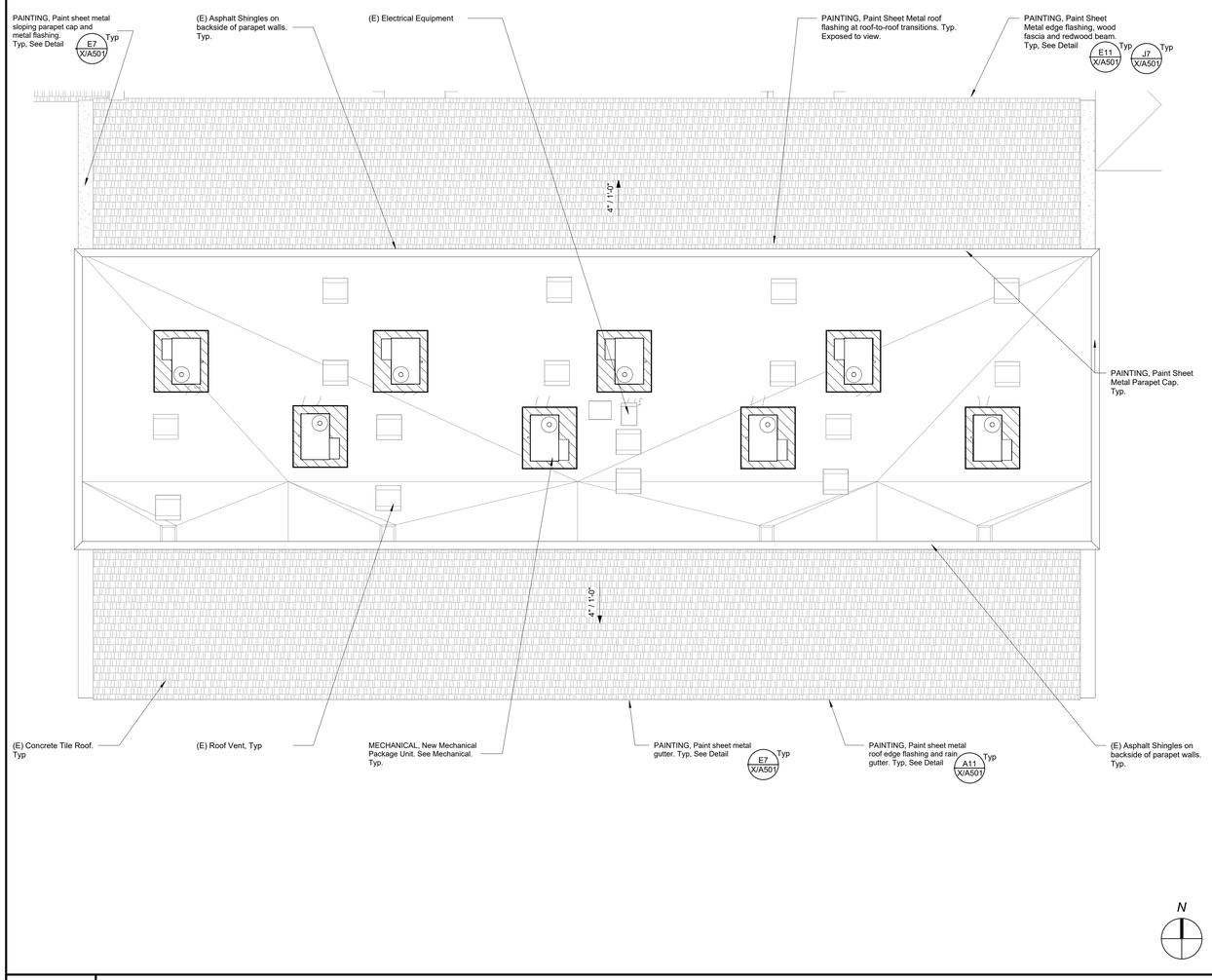
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.



A7 — Roof Plan
1/8" = 1'-0"

H18 — Roof Plan Legend
No Scale

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

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ROOF PLAN

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LICENSED ARCHITECT
MICHAEL K. FENNACY
No. C23724
Ren. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright G002 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: CC	C/A302
Project Number: 2228	Checked By: Checker	
Date: 12/09/2022	Reviewed By: MF	

5/26/2023 11:22:54 AM
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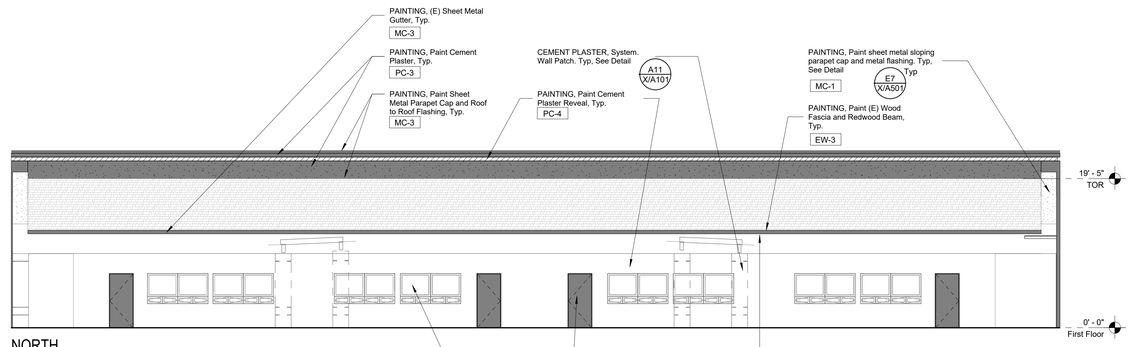

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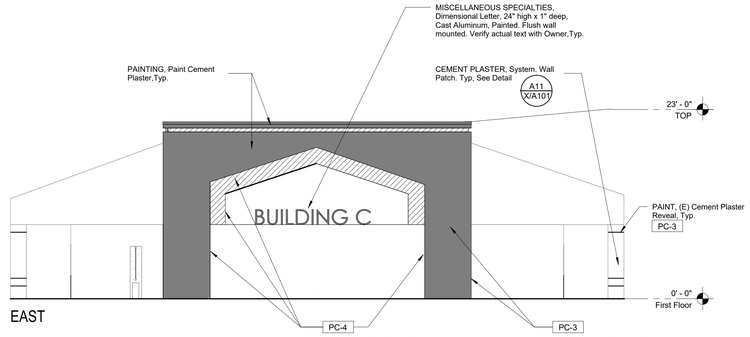

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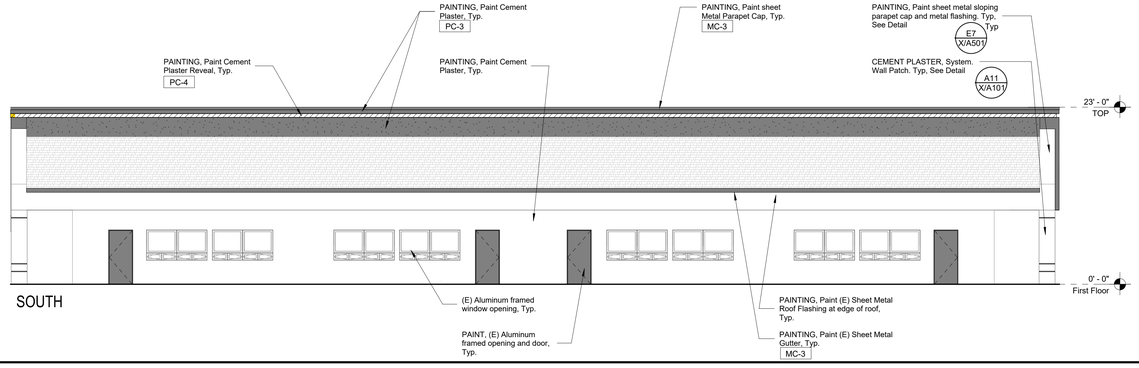
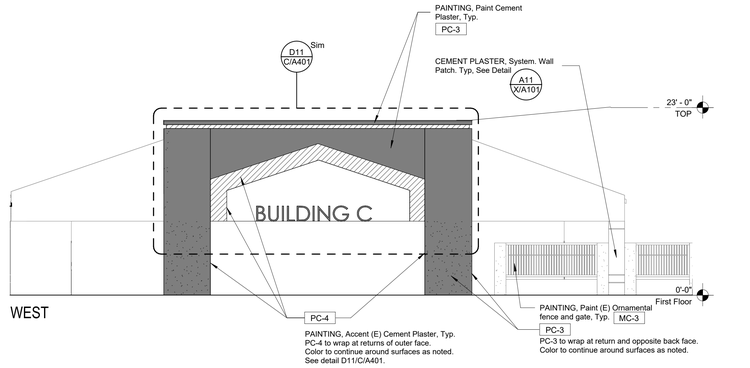
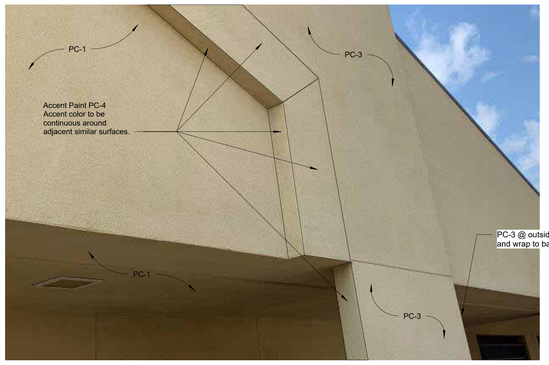


SOUTH



WEST



D11	Accent Paint Locations
No Scale	Typical @ Buildings C (East & West), E (East), G (East)

A1	Exterior Elevations
1/8" = 1'-0"	Refer to E18 for Exterior Color Legend Symbols, Abbreviations and Notes

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023
Agency Approval

EXTERIOR COLOR LEGEND

Plaster Colors

PC-1	White Unless Noted Otherwise
PC-2	Gray
PC-3	Blue
PC-4	Yellow

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Block Colors

BC-1	Gray Unless Noted Otherwise

All Existing Block to be BC-1, UNO.

Wood Colors

EW-1	White
EW-3	Blue

All Existing Wood Beams and Fascia to be EW-3, UNO.
All Existing 2x2 Wood Trellis Slats to be EW-1, UNO.

Door Colors

DC-1	White (NOT USED)
DC-2	(NOT USED)
DC-3	Blue

All (E) "Blue" Metal Doors to be repainted DC-3, UNO.

Metal Colors

MC-1	White Unless Noted Otherwise
MC-2	Gray
MC-3	Blue
MC-4	Match (E) Bronze

All (E) Hollow Metal Frames to be repainted MC-4 to match existing, UNO.
All Steel and Fabrications to match adjacent wall, UNO.

Storefront Colors

SF-1	Match existing bronze

All new storefront to be SF-1, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.
   - Outer Face Wall
   - Soffit
   - Inner Face Wall
4. Horizontal soffits adjacent to fascia board shall be PC-1, UNO.
   - Fascia Board
   - PC-1 UNO.

SYMBOLS

H	ELECTRICAL, Horn
S	ELECTRICAL, Speaker
	ELECTRICAL, Outlet
	ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO
	Glass

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
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TPL	Top of Plate
Typ.	Typ
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.
4. PAINTING, Repaint all existing exterior surfaces.
5. PAINTING, Repaint all existing gutters, downspouts and leaders MC-3 (Blue).
6. PAINTING, all roof-to-roof flashing to be painted to match adjacent cement plaster.
7. PAINTING, all roof flashing at fascia and edge of tile roof to be painted to match MC-3 (Blue), UNO.

E18	Exterior Elevations Legend
No Scale	

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313
Project

BUILDING C
EXTERIOR ELEVATIONS
Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright G002 Darden Architects
Scale: As indicated	Drawn By: CC	C/A401
Project Number: 2228	Checked By: MF	
Date: 12/09/2022	Reviewed By: MF	

5/26/2023 11:22:59 AM
D:\2228_WarrenJHS_APEX_SITE_V23_Carlos47R8P.rvt

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

MOUNTING CONDITION

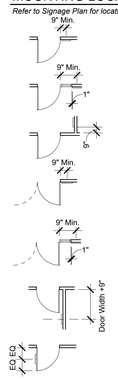
1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

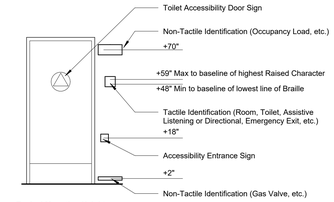
SIGN MATERIAL

A	=	Acrylic
EM	=	Exterior Metal.
IM	=	Interior Metal.
EP	=	Exterior Plastic.
IP	=	Interior Plastic.
D	=	Decal.

MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)





Typical Mounting Heights

Scale: N.T.S.

NOTES

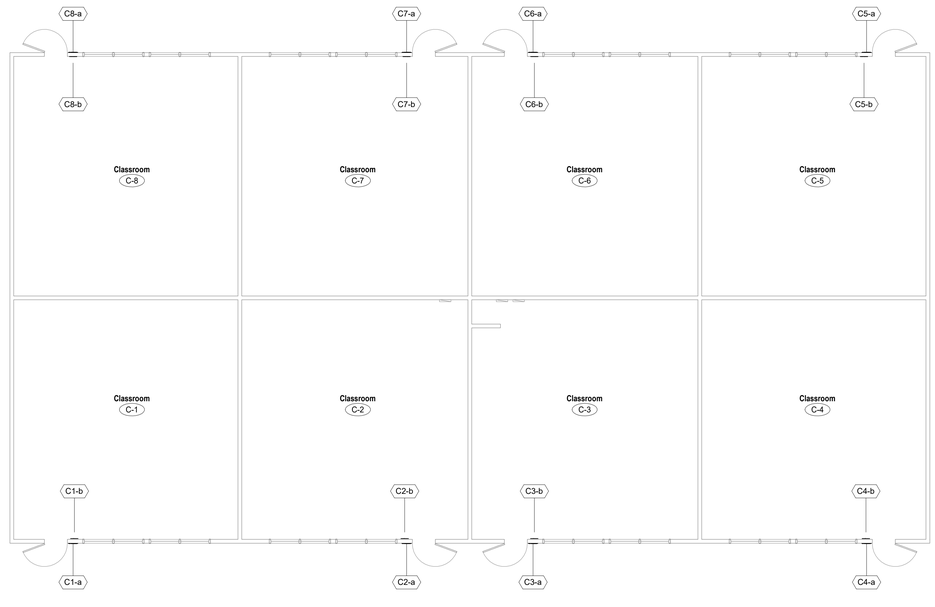
1. Refer to Specification Section 10 14 00 IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. Verify Sign Copy with Owner prior to fabrication, "-" indicates a blank space
4. Sign copy shall say "Classroom X". Room number shall be determined by Owner.
5. IDENTIFYING DEVICES, For Height, Mounting Condition, and Sign Description, refer to Detail E1/X/A702

G18 — Signage Schedule Legend
No Scale

Signage Schedule BLDG C

Building	Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Mtg Height	Mtg Cond	Remarks
C	C1-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
C	C1-b	4a	A	-	-	4' - 11"	2	-
C	C2-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
C	C2-b	4a	A	-	-	4' - 11"	2	-
C	C3-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
C	C3-b	4a	A	-	-	4' - 11"	2	-
C	C4-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
C	C4-b	4a	A	-	-	4' - 11"	2	-
C	C5-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
C	C5-b	4a	A	-	-	4' - 11"	2	-
C	C6-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
C	C6-b	4a	A	-	-	4' - 11"	2	-
C	C7-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
C	C7-b	4a	A	-	-	4' - 11"	2	-
C	C8-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
C	C8-b	4a	A	-	-	4' - 11"	2	-

J12 — Signage Schedule
NO SCALE



A7 — Signage Plan, Building C
1/8" = 1'-0"

Consultant

Earl Warren Junior High School Modernization Phase I
Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

BUILDING C
SIGNAGE PLAN AND SCHEDULE
Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright 2023 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: KX	C/A701
Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

5/26/2023 2:36:12 PM
C:\Users\Kennettx\Documents\2228_Warren_JHS_Mod_Phase_1_MASTER_V23_kennettxM8EKW.rvt

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

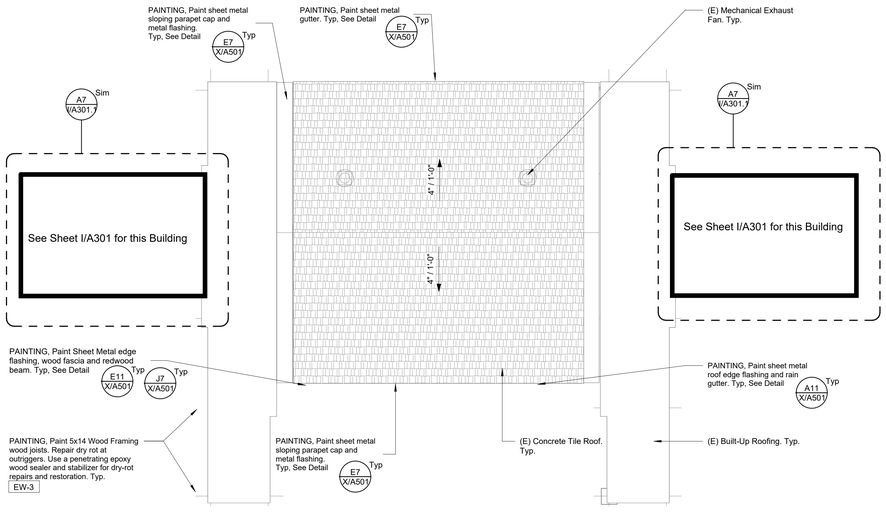
	BUILT-UP ROOFING Cut and Patch existing roofing system. Match existing roofing system Determine extents with roof manufacture for warranty
	PLUMBING, Roof Drain and Overflow
	ROOF ACCESSORIES, Roof Hatch
PV	PLUMBING, Vent
+14'-6" TOP	Elevation above finish floor
7	Direction of slope
	Line of Wall below
	Reference Point
	LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.



N

A7
1/8" = 1'-0"
Roof Plan

H18
No Scale
Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313
Project

BUILDING D
ROOF PLAN
Drawing

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Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright G002 Darden Architects
Scale:	1/8" = 1'-0"	Drawn By: CC	D/A301
Project Number:	2228	Checked By: Checker	
Date:	12/09/2022	Reviewed By: MF	

5/26/2023 11:23:01 AM
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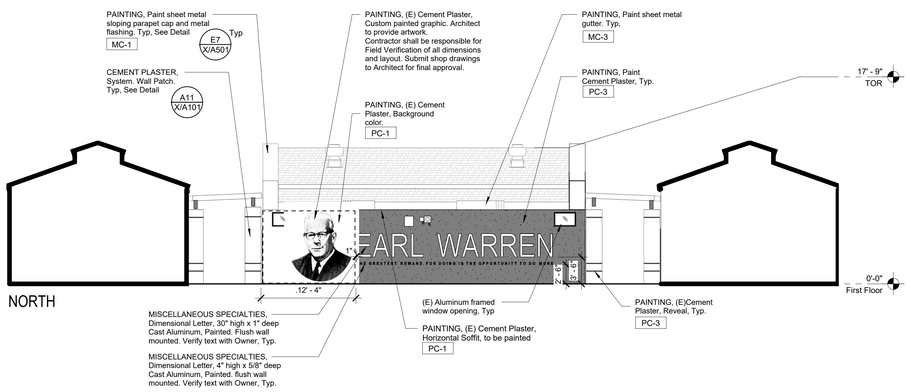
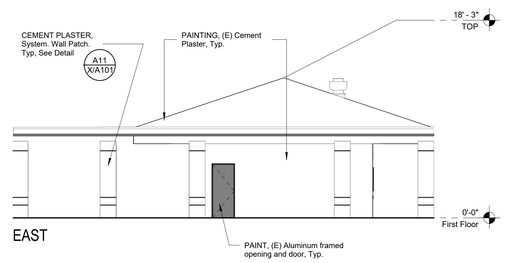
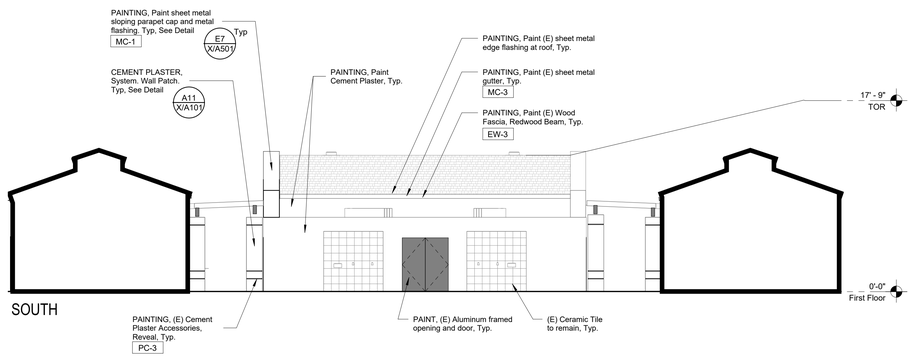


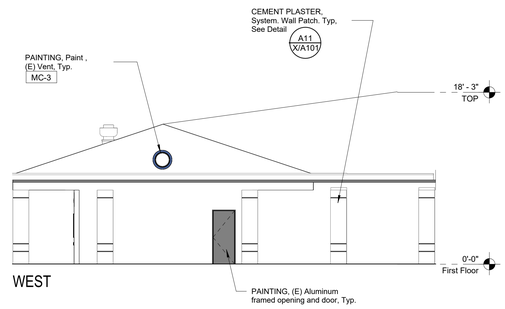
NORTH



EAST



SOUTH



WEST

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023
Agency Approval

EXTERIOR COLOR LEGEND

Plaster Colors

PC-1	White Unless Noted Otherwise
PC-2	Gray
PC-3	Blue
PC-4	Yellow

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Block Colors

BC-1	Gray Unless Noted Otherwise

All Existing Block to be BC-1, UNO.

Wood Colors

EW-1	White
EW-3	Blue

All Existing Wood Beams and Fascia to be EW-3, UNO.
All Existing 2x2 Wood Trellis Slats to be EW-1, UNO.

Door Colors

DC-1	White (NOT USED)
DC-2	(NOT USED)
DC-3	Blue

All (E) "Blue" Metal Doors to be repainted DC-3, UNO.

Metal Colors

MC-1	White Unless Noted Otherwise
MC-2	Gray
MC-3	Blue
MC-4	Match (E) Bronze

All (E) Hollow Metal Frames to be repainted MC-4 to match existing, UNO.
All Steel and Fabrications to match adjacent wall, UNO.

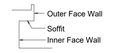
Storefront Colors

SF-1	Match existing bronze

All new storefront to be SF-1, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.



4. Horizontal soffits adjacent to fascia board shall be PC-1, UNO.

SYMBOLS

H	ELECTRICAL, Horn		Glass
S	ELECTRICAL, Speaker		
	ELECTRICAL, Outlet		
	ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO		

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typ
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.
4. PAINTING, Repaint all existing exterior surfaces.
5. PAINTING, Repaint all existing gutters, downspouts and leaders MC-3 (Blue).
6. PAINTING, all roof-to-roof flashing to be painted to match adjacent cement plaster.
7. PAINTING, all roof flashing at fascia and edge of tile roof to be painted to match MC-3 (Blue), UNO.

E18
No Scale

Exterior Elevations Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING E
EXTERIOR ELEVATIONS

Drawing

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Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright G002 Darden Architects
Scale:	As indicated	Drawn By: CC	D/A401
Project Number:	2228	Checked By: MF	
Date:	12/09/2022	Reviewed By: MF	

A1
1/8" = 1'-0"

Exterior Elevations

Refer to E18 for Exterior Color Legend Symbols, Abbreviations and Notes

5/26/2023 11:23:05 AM
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DSA File No.:
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APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

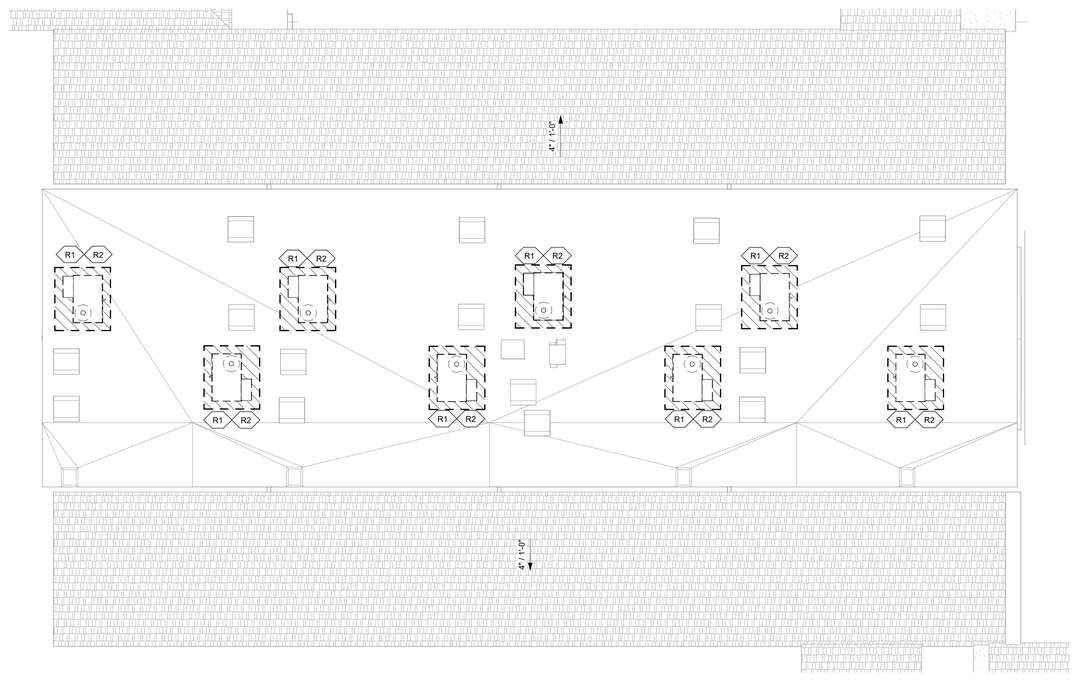
	BUILT-UP ROOFING Cut and Patch existing roofing system. Match existing roofing system Determine extents with roof manufacture for warranty
	PLUMBING, Roof Drain and Overflow
	ROOF ACCESSORIES, Roof Hatch
PV	PLUMBING, Vent
+14'-6" TOP	Elevation above finish floor
7	Direction of slope
	Line of Wall below
	Reference Point
	LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.



DEMOLITION NOTES

R1 Cut and Patch existing Built-Up Roofing system. Refer to the Roof Plan Legend for notes on the extents.

R2 Contractor to Verify Limits of Demolition.

N

A7
1/8" = 1'-0"
Demolition Roof Plan

H18
No Scale
Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313
Project

BUILDING E
DEMOLITION ROOF PLAN
Drawing

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Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright G002 Darden Architects
Scale:	1/8" = 1'-0"	Drawn By: CC	E/A301
Project Number:	2228	Checked By: KX	
Date:	12/09/2022	Reviewed By: MF	

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DSA File No.:
15-95

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SYMBOLS

	BUILT-UP ROOFING Cut and Patch existing roofing system. Match existing roofing system Determine extents with roof manufacture for warranty
	PLUMBING, Roof Drain and Overflow
	ROOF ACCESSORIES, Roof Hatch
PV	PLUMBING, Vent
+14'-6" TOP	Elevation above finish floor
7	Direction of slope
	Line of Wall below
	Reference Point
	LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
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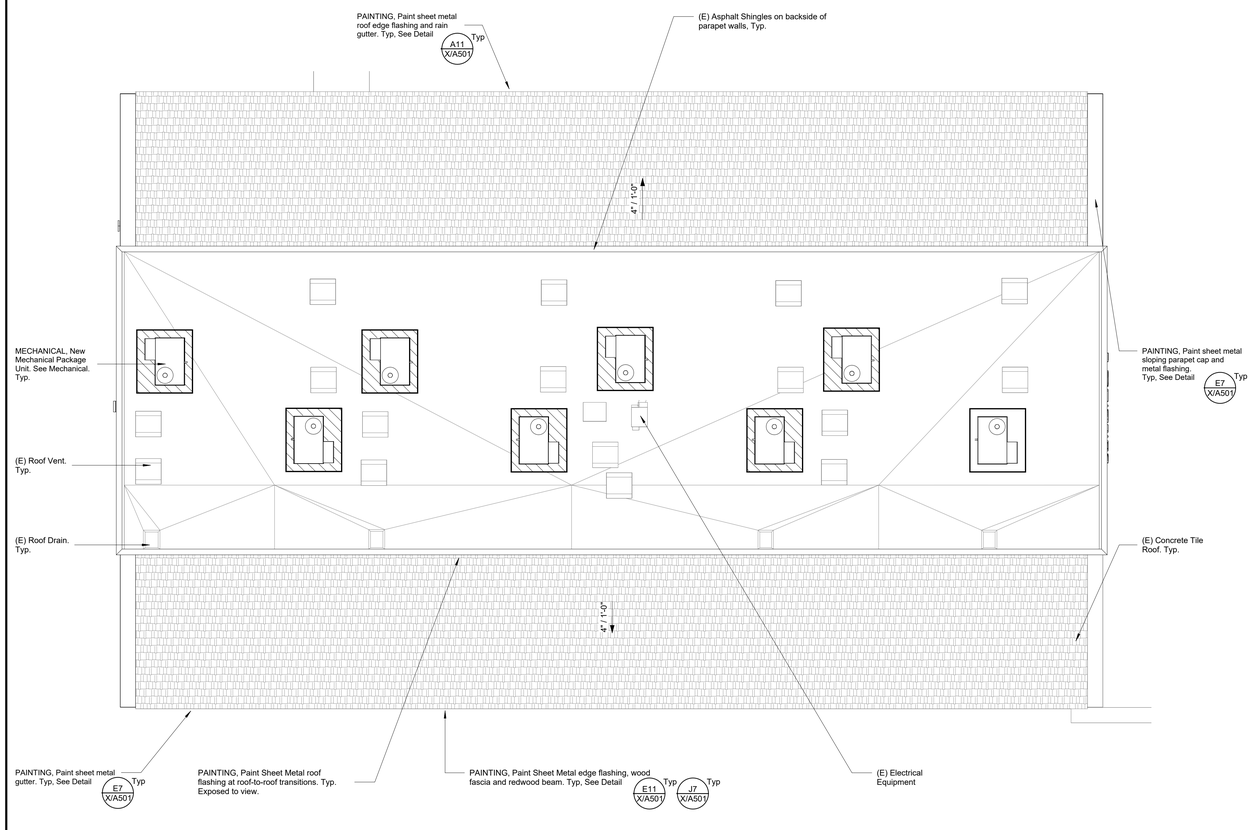
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.



A7
1/8" = 1'-0"
Roof Plan

H18
No Scale
Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING E
ROOF PLAN

Drawing

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No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

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Scale: 1/8" = 1'-0"
Project Number: 2228
Date: 12/09/2022

E/A302

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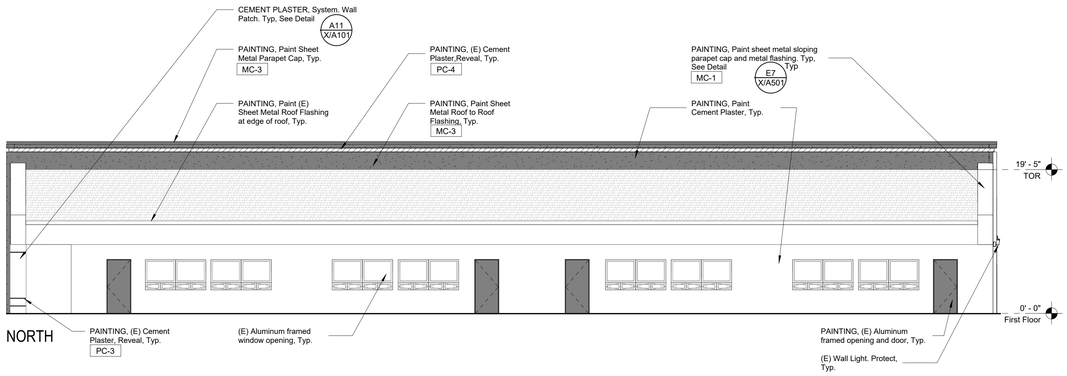

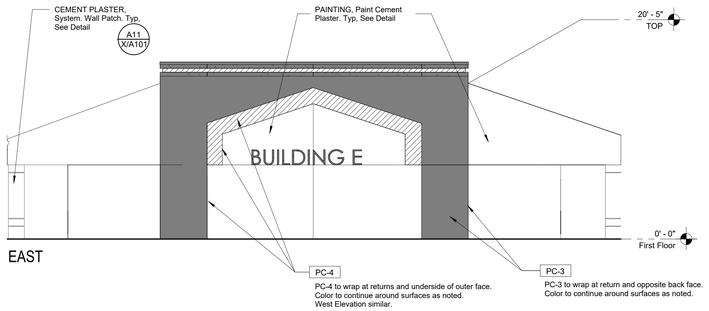

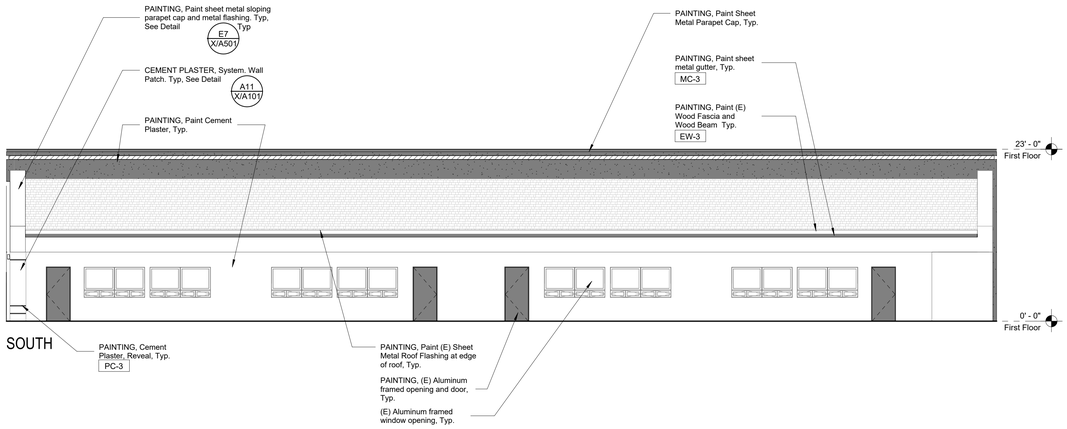

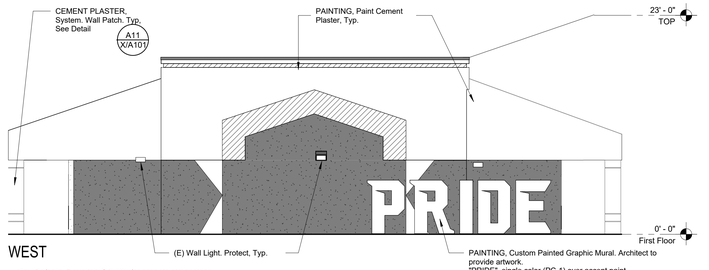

Note: Refer to Elevation G/A401 for graphic dimensions.

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023
Agency Approval

EXTERIOR COLOR LEGEND

Plaster Colors

PC-1	White Unless Noted Otherwise
PC-2	Gray
PC-3	Blue
PC-4	Yellow

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Block Colors

BC-1	Gray Unless Noted Otherwise

All Existing Block to be BC-1, UNO.

Wood Colors

EW-1	White
EW-3	Blue

All Existing Wood Beams and Fascia to be EW-3, UNO.
All Existing 2x2 Wood Trellis Slats to be EW-1, UNO.

Door Colors

DC-1	White (NOT USED)
DC-2	(NOT USED)
DC-3	Blue

All (E) "Blue" Metal Doors to be repainted DC-3, UNO.

Metal Colors

MC-1	White Unless Noted Otherwise
MC-2	Gray
MC-3	Blue
MC-4	Match (E) Bronze

All (E) Hollow Metal Frames to be repainted MC-4 to match existing, UNO.
All Steel and Fabrications to match adjacent wall, UNO.

Storefront Colors

SF-1	Match existing bronze

All new storefront to be SF-1, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.
   - Outer Face Wall
   - Soffit
   - Inner Face Wall
4. Horizontal soffits adjacent to fascia board shall be PC-1, UNO.
   - Fascia Board
   - PC-1 UNO.

SYMBOLS

H	ELECTRICAL, Horn		Glass
S	ELECTRICAL, Speaker		
	ELECTRICAL, Outlet		
	ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO		

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typ
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.
4. PAINTING, Repaint all existing exterior surfaces.
5. PAINTING, Repaint all existing gutters, downspouts and leaders MC-3 (Blue).
6. PAINTING, all roof-to-roof flashing to be painted to match adjacent cement plaster.
7. PAINTING, all roof flashing at fascia and edge of tile roof to be painted to match MC-3 (Blue), UNO.

E18
No Scale

Exterior Elevations Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING E
EXTERIOR ELEVATIONS

Drawing

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Architect

No.	Revision/Submission	Date

Revision

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Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

Scale: As indicated
Project Number: 2228
Date: 12/09/2022

E/A401

A1
1/8" = 1'-0"

Exterior Elevations
Refer to E18 for Exterior Color Legend Symbols, Abbreviations and Notes

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DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

MOUNTING CONDITION

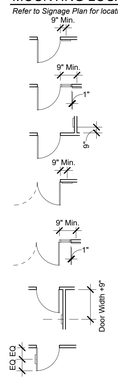
1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

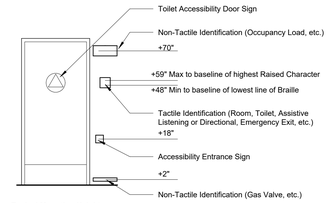
SIGN MATERIAL

A	=	Acrylic
EM	=	Exterior Metal.
IM	=	Interior Metal.
EP	=	Exterior Plastic.
IP	=	Interior Plastic.
D	=	Decal.

MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)





Typical Mounting Heights

Scale: N.T.S.

NOTES

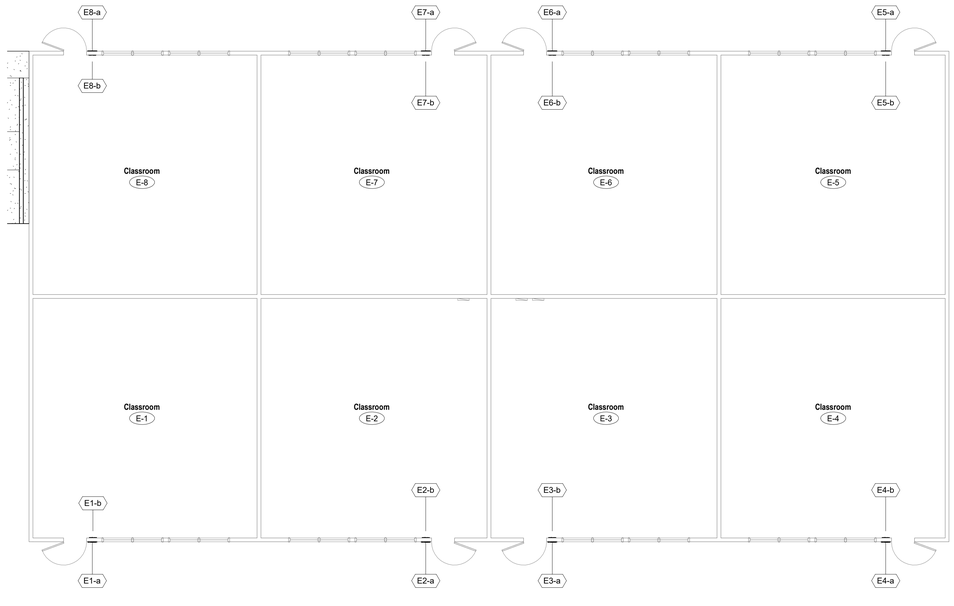
1. Refer to Specification Section 10 14 00 IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. Verify Sign Copy with Owner prior to fabrication, "-" indicates a blank space
4. Sign copy shall say "Classroom X". Room number shall be determined by Owner.
5. IDENTIFYING DEVICES, For Height, Mounting Condition, and Sign Description, refer to Detail E1 / X/A702

G18 — Signage Schedule Legend
No Scale

Signage Schedule BLDG E

Building	Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Mtg Height	Mtg Cond	Remarks
E	E1-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
E	E1-b	4a	A	-	-	4' - 11"	2	-
E	E2-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
E	E2-b	4a	A	-	-	4' - 11"	2	-
E	E3-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
E	E3-b	4a	A	-	-	4' - 11"	2	-
E	E4-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
E	E4-b	4a	A	-	-	4' - 11"	2	-
E	E5-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
E	E5-b	4a	A	-	-	4' - 11"	2	-
E	E6-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
E	E6-b	4a	A	-	-	4' - 11"	2	-
E	E7-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
E	E7-b	4a	A	-	-	4' - 11"	2	-
E	E8-a	5b 7" x 15"	A	Classroom X	-	4' - 11"	2	See Note 4
E	E8-b	4a	A	-	-	4' - 11"	2	-

J12 — Signage Schedule
NO SCALE



A7 — Signage Plan, Building E
1/8" = 1'-0"

Consultant

Earl Warren Junior High School Modernization Phase I
Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

BUILDING E
SIGNAGE PLAN AND SCHEDULE
Drawing

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LICENSED ARCHITECT MICHAEL K. FAZIO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

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Scale: 1/8" = 1'-0"
Project Number: 2228
Date: 3/20/2022

E/A701

5/26/2023 2:36:16 PM
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DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

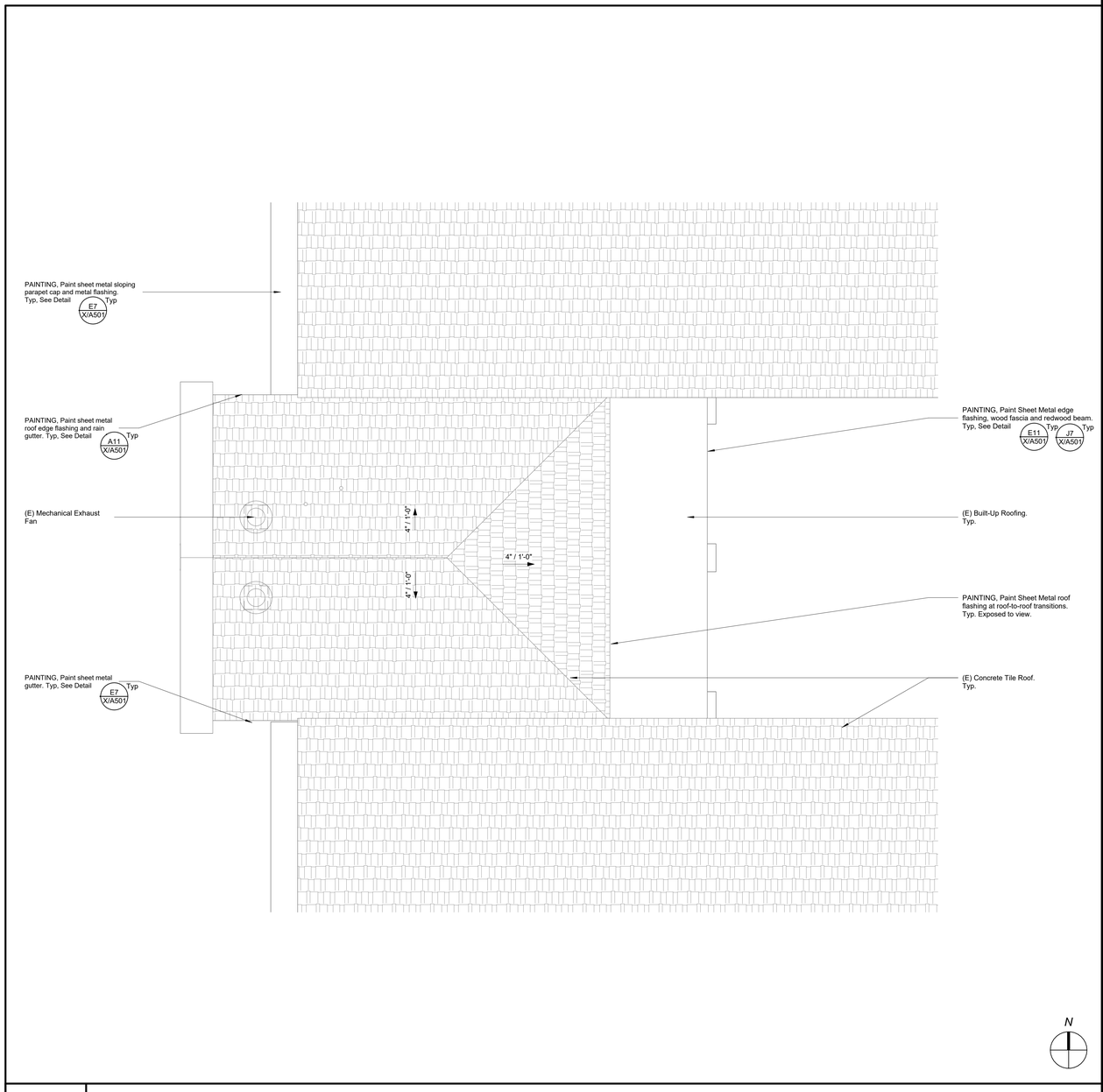
	BUILT-UP ROOFING Cut and Patch existing roofing system. Match existing roofing system Determine extents with roof manufacture for warranty
	PLUMBING, Roof Drain and Overflow
	ROOF ACCESSORIES, Roof Hatch
PV	PLUMBING, Vent
+14'-6" TOP	Elevation above finish floor
7	Direction of slope
	Line of Wall below
	Reference Point
	LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.



A11
1/4" = 1'-0"
Building F - Roof Plan

H18
No Scale
Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313
Project

BUILDING F
ROOF PLAN
Drawing

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LICENSED ARCHITECT MICHAEL K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright G002 Darden Architects
Scale: As indicated	Drawn By: CC	F/A301
Project Number: 2228	Checked By: MF	
Date: 12/09/2022	Reviewed By: MF	

5/26/2023 11:23:16 AM
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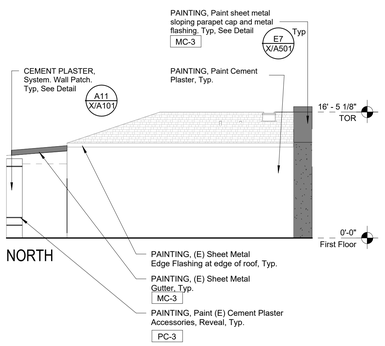

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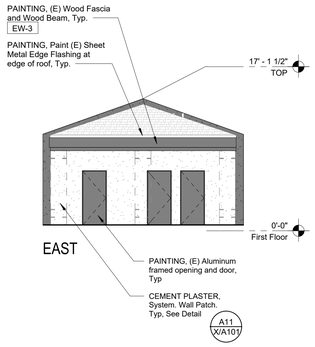

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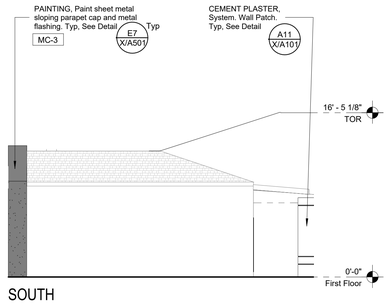
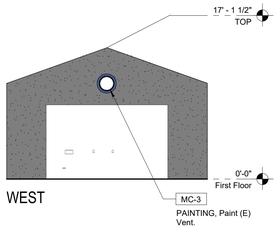


SOUTH



WEST

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

EXTERIOR COLOR LEGEND

Plaster Colors

PC-1	White Unless Noted Otherwise
PC-2	Gray
PC-3	Blue
PC-4	Yellow

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Block Colors

BC-1	Gray Unless Noted Otherwise

All Existing Block to be BC-1, UNO.

Wood Colors

EW-1	White
EW-3	Blue

All Existing Wood Beams and Fascia to be EW-3, UNO.
All Existing 2x2 Wood Trellis Slats to be EW-1, UNO.

Door Colors

DC-1	White (NOT USED)
DC-2	(NOT USED)
DC-3	Blue

All (E) "Blue" Metal Doors to be repainted DC-3, UNO.

Metal Colors

MC-1	White Unless Noted Otherwise
MC-2	Gray
MC-3	Blue
MC-4	Match (E) Bronze

All (E) Hollow Metal Frames to be repainted MC-4 to match existing, UNO.
All Steel and Fabrications to match adjacent wall, UNO.

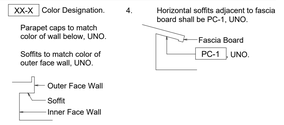
Storefront Colors

SF-1	Match existing bronze

All new storefront to be SF-1, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.
4. Horizontal soffits adjacent to fascia board shall be PC-1, UNO.



SYMBOLS

H	ELECTRICAL, Horn
S	ELECTRICAL, Speaker
	ELECTRICAL, Outlet
	ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO
	Glass

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typ
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.
4. PAINTING, Repaint all existing exterior surfaces.
5. PAINTING, Repaint all existing gutters, downspouts and leaders MC-3 (Blue).
6. PAINTING, all roof-to-roof flashing to be painted to match adjacent cement plaster.
7. PAINTING, all roof flashing at fascia and edge of tile roof to be painted to match MC-3 (Blue), UNO.

E18
No Scale

Exterior Elevations Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING F
EXTERIOR ELEVATIONS

Drawing

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MICHAEL K. FERGUSON
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright G002 Darden Architects
Scale:	As indicated	Drawn By: CC	F/A401
Project Number:	2228	Checked By: MF	
Date:	12/09/2022	Reviewed By: MF	

A1
1/8" = 1'-0"

Exterior Elevations

Refer to E18 for Exterior Color Legend Symbols, Abbreviations and Notes

5/26/2023 11:23:19 AM
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DSA File No.:
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DSA Application No.:
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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SYMBOLS

BUILT-UP ROOFING
Cut and Patch existing roofing system.
Match existing roofing system
Determine extents with roof manufacture for warranty

PLUMBING, Roof Drain and Overflow

ROOF ACCESSORIES, Roof Hatch

PV — PLUMBING, Vent

+14'-6" TOP — Elevation above finish floor

7 — Direction of slope

Line of Wall below

Reference Point

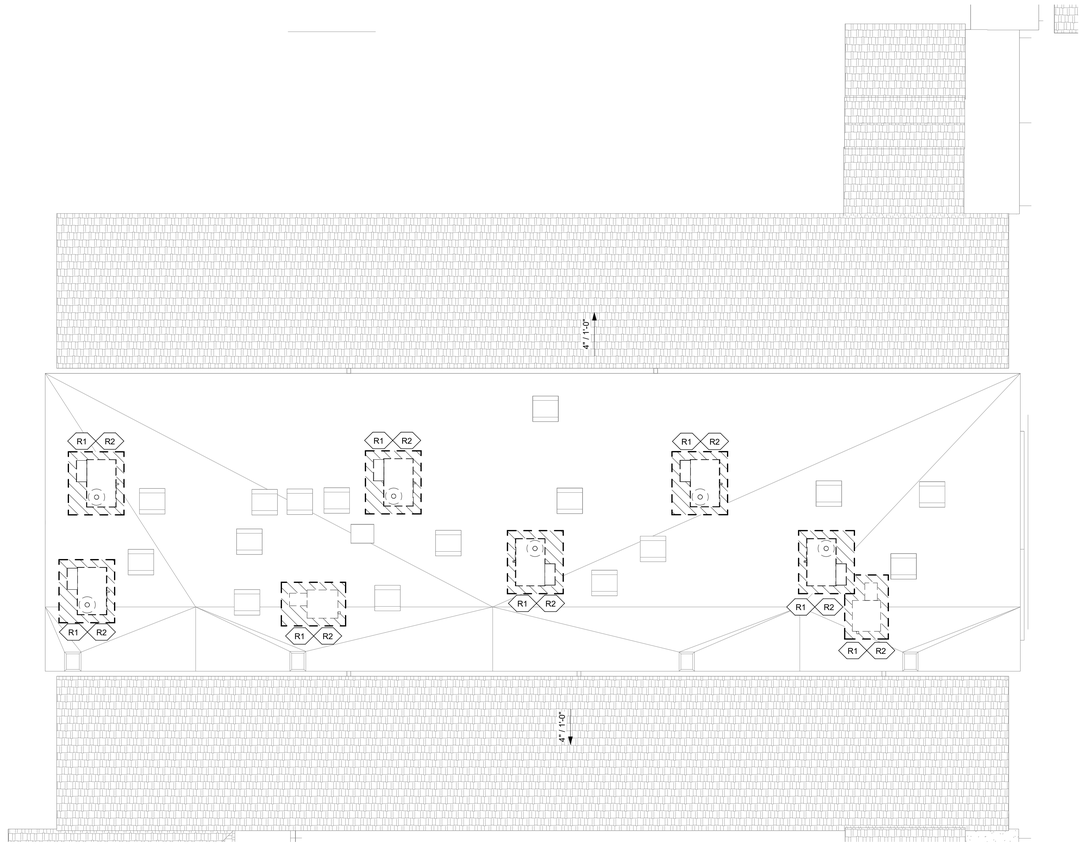
LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.



DEMOLITION NOTES

R1 — Cut and Patch existing Built-Up Roofing system. Refer to the Roof Plan Legend for notes on the extents.

R2 — Contractor to Verify Limits of Demolition.

N

A7
1/8" = 1'-0"
Demolition Roof Plan

H18
No Scale
Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

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BUILDING G
DEMOLITION ROOF PLAN

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LICENSED ARCHITECT
MICHAEL K. FENNACY
No. C23724
Ren. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright G002 Darden Architects
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Project Number: 2228	Checked By: KX	
Date: 12/09/2022	Reviewed By: MF	

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DSA File No.:
15-95

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03-122615

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APP: 03-122615 INC:
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SS ☑ FLS ☑ ACS ☑
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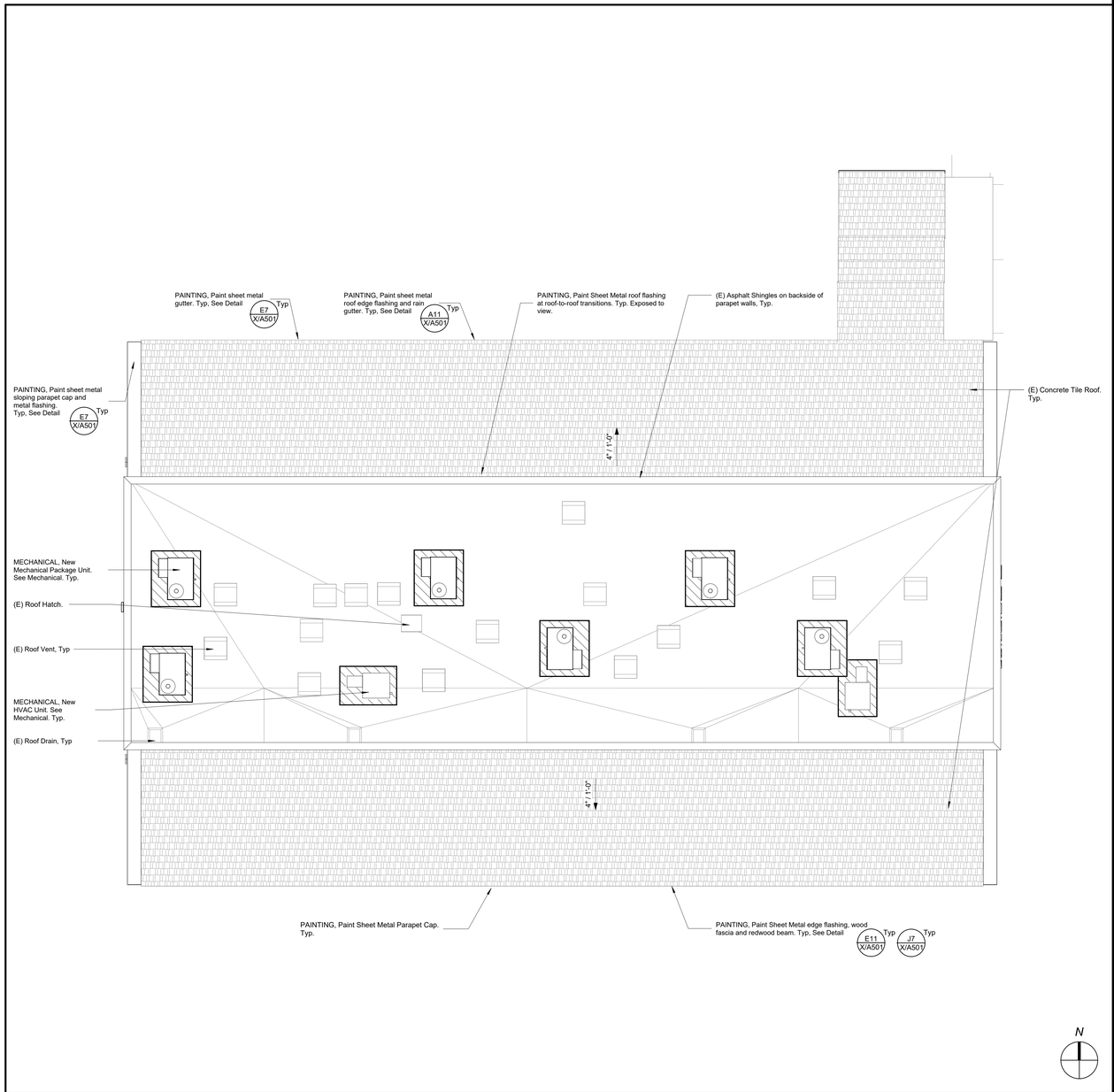

A7
1/8" = 1'-0"
Roof Plan

SYMBOLS

- BUILT-UP ROOFING
  Cut and Patch existing roofing system.
  Match existing roofing system
  Determine extents with roof manufacture for warranty
- PLUMBING, Roof Drain and Overflow
- ROOF ACCESSORIES, Roof Hatch
- PV — PLUMBING, Vent
- +14'-6" TOP — Elevation above finish floor
- 7 — Direction of slope
- Line of Wall below
- Reference Point
- LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.

H18
No Scale
Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313
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BUILDING G
ROOF PLAN
Drawing

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Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright G002 Darden Architects
Scale:	1/8" = 1'-0"	Drawn By: CC	G/A302
Project Number:	2228	Checked By: MF	
Date:	12/09/2022	Reviewed By: MF	

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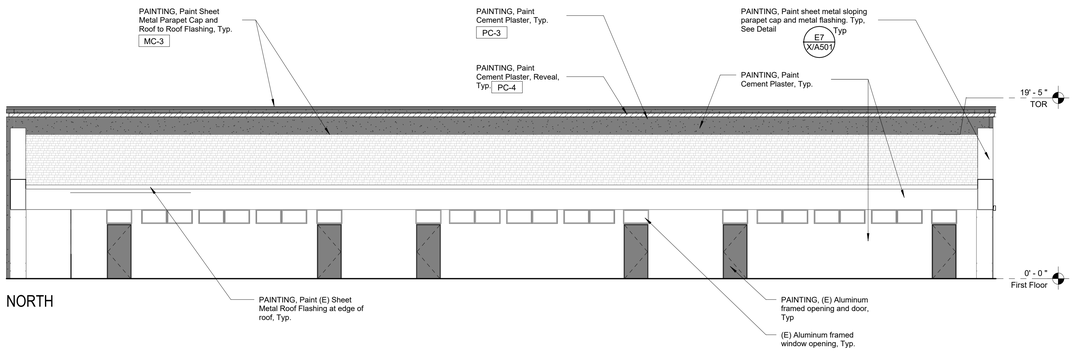

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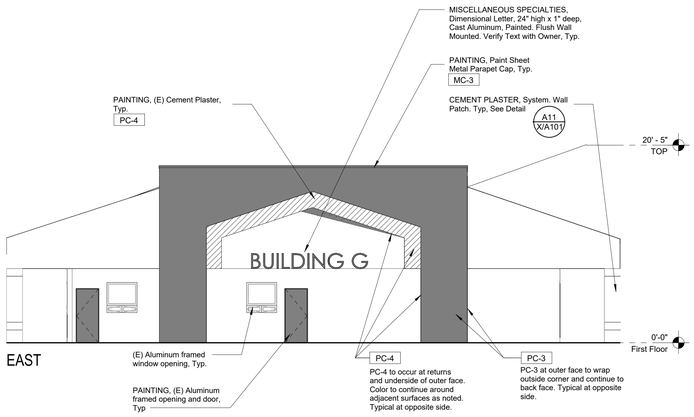

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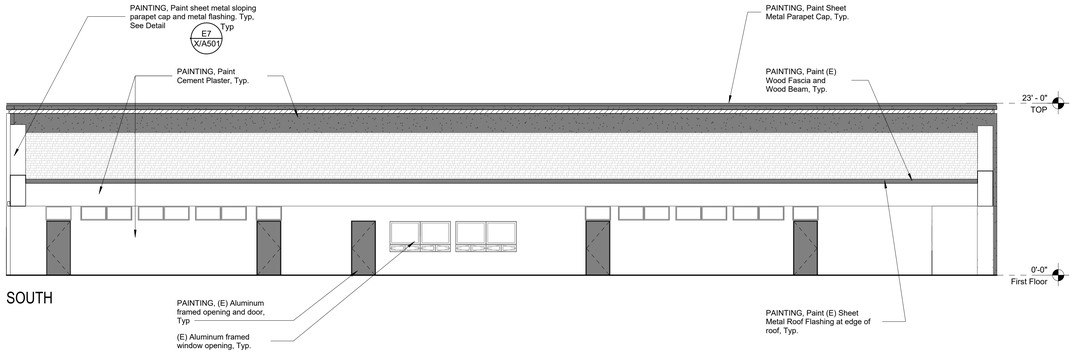

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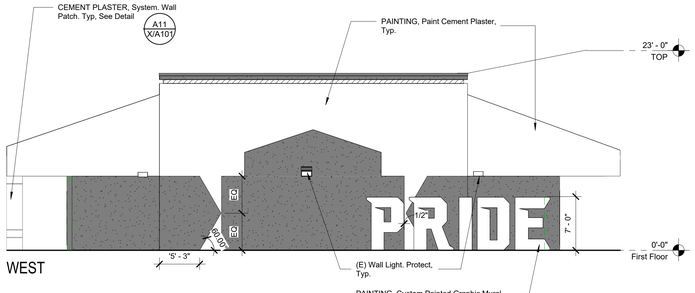

WEST

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

EXTERIOR COLOR LEGEND

Plaster Colors

PC-1	White Unless Noted Otherwise
PC-2	Gray
PC-3	Blue
PC-4	Yellow

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Block Colors

BC-1	Gray Unless Noted Otherwise

All Existing Block to be BC-1, UNO.

Wood Colors

EW-1	White
EW-3	Blue

All Existing Wood Beams and Fascia to be EW-3, UNO.
All Existing 2x2 Wood Trellis Slats to be EW-1, UNO.

Door Colors

DC-1	White (NOT USED)
DC-2	(NOT USED)
DC-3	Blue

All (E) "Blue" Metal Doors to be repainted DC-3, UNO.

Metal Colors

MC-1	White Unless Noted Otherwise
MC-2	Gray
MC-3	Blue
MC-4	Match (E) Bronze

All (E) Hollow Metal Frames to be repainted MC-4 to match existing, UNO.
All Steel and Fabrications to match adjacent wall, UNO.

Storefront Colors

SF-1	Match existing bronze

All new storefront to be SF-1, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.

Outer Face Wall
Soffit
Inner Face Wall

4. Horizontal soffits adjacent to fascia board shall be PC-1, UNO.

Fascia Board
PC-1 UNO.

SYMBOLS

H	ELECTRICAL, Horn
S	ELECTRICAL, Speaker
	ELECTRICAL, Outlet
	ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO
	Glass

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typ
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.
4. PAINTING, Repaint all existing exterior surfaces.
5. PAINTING, Repaint all existing gutters, downspouts and leaders MC-3 (Blue).
6. PAINTING, all roof-to-roof flashing to be painted to match adjacent cement plaster.
7. PAINTING, all roof flashing at fascia and edge of tile roof to be painted to match MC-3 (Blue), UNO.

E18
No Scale

Exterior Elevations Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING G
EXTERIOR ELEVATIONS

Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 12/09/2022

G/A401

A1
1/8" = 1'-0"

Exterior Elevations

Refer to E18 for Exterior Color Legend Symbols, Abbreviations and Notes

5/26/2023 11:23:27 AM
D:\2228_WarrenJHS_APEX_SITE_V23_Carlic47R8P.rvt

DSA File No.:
15-95

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APP: 03-122615 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

MOUNTING CONDITION

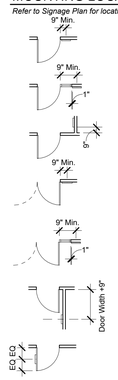
1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

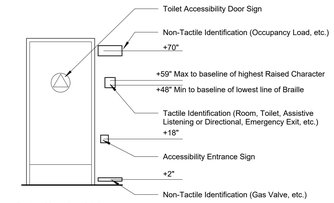
SIGN MATERIAL

A	=	Acrylic
EM	=	Exterior Metal.
IM	=	Interior Metal.
EP	=	Exterior Plastic.
IP	=	Interior Plastic.
D	=	Decal.

MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)





Typical Mounting Heights

Scale: N.T.S.

NOTES

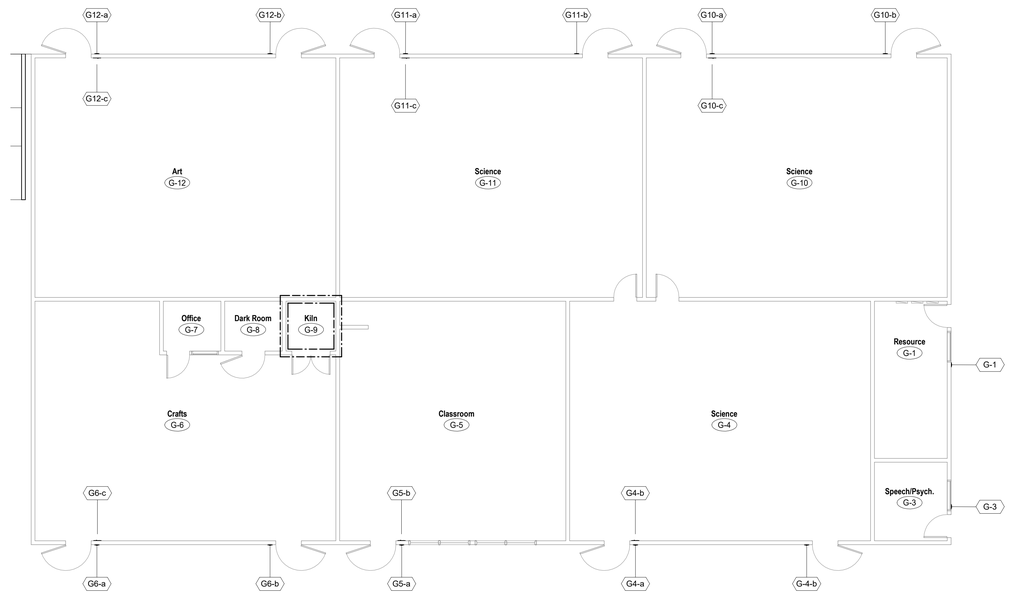
1. Refer to Specification Section 10 14 00 IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. Verify Sign Copy with Owner prior to fabrication, "-" indicates a blank space
4. Sign copy shall say "Classroom X". Room number shall be determined by Owner.
5. IDENTIFYING DEVICES, For Height, Mounting Condition, and Sign Description, refer to Detail E1 X/A702

G18 — Signage Schedule Legend
No Scale

Signage Schedule BLDG G

Building	Sign Mark	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Type	Mtg Height	Mtg Cond	Remarks
G	G4-a	A	N/A	N/A	5a 7" x 7"	4' - 11"		See Note 4
G	G4-b	A	N/A	N/A	4a	4' - 11"	2	-
G	G5-a	A	N/A	N/A	5a 7" x 7"	4' - 11"	2	See Note 4
G	G5-b	A	N/A	N/A	4a	4' - 11"	2	-
G	G6-a	A	N/A	N/A	5a 7" x 7"	4' - 11"	2	See Note 4
G	G6-b	A	N/A	N/A	5a 7" x 7"	4' - 11"	2	See Note 4
G	G6-c	A	N/A	N/A	4a	4' - 11"	2	-
G	G10-a	A	N/A	N/A	5a 7" x 7"	4' - 11"	2	See Note 4
G	G10-b	A	N/A	N/A	5a 7" x 7"	4' - 11"	2	See Note 4
G	G10-c	A	N/A	N/A	4a	4' - 11"	2	-
G	G11-a	A	N/A	N/A	5a 7" x 7"	4' - 11"		See Note 4
G	G11-b	A	N/A	N/A	5a 7" x 7"	4' - 11"		See Note 4
G	G11-c	A	N/A	N/A	4a	4' - 11"	2	-
G	G12-a	A	N/A	N/A	5a 7" x 7"	4' - 11"	2	See Note 4
G	G12-b	A	N/A	N/A	5a 7" x 7"	4' - 11"	2	See Note 4
G	G12-c	A	N/A	N/A	4a	4' - 11"	2	-
G	G-1	A	N/A	N/A	5a 7" x 7"	4' - 11"	2	See Note 4
G	G-3	A	N/A	N/A	5a 7" x 7"	4' - 11"	4	See Note 4
G	G-4-b	A	N/A	N/A	5a 7" x 7"	4' - 11"		See Note 4

J12 — Signage Schedule
NO SCALE



A7 — Signage Plan, Building G
1/8" = 1'-0"

Consultant

Earl Warren Junior High School Modernization Phase I
Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

BUILDING G
SIGNAGE PLAN AND SCHEDULE
Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

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Scale: 1/8" = 1'-0"
Project Number: 2228
Date: 3/20/2022

G/A701

5/26/2023 2:36:16 PM
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DSA File No.:
15-95

DSA Application No.:
03-122615

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APP: 03-122615 INC:
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DATE: 07/20/2023

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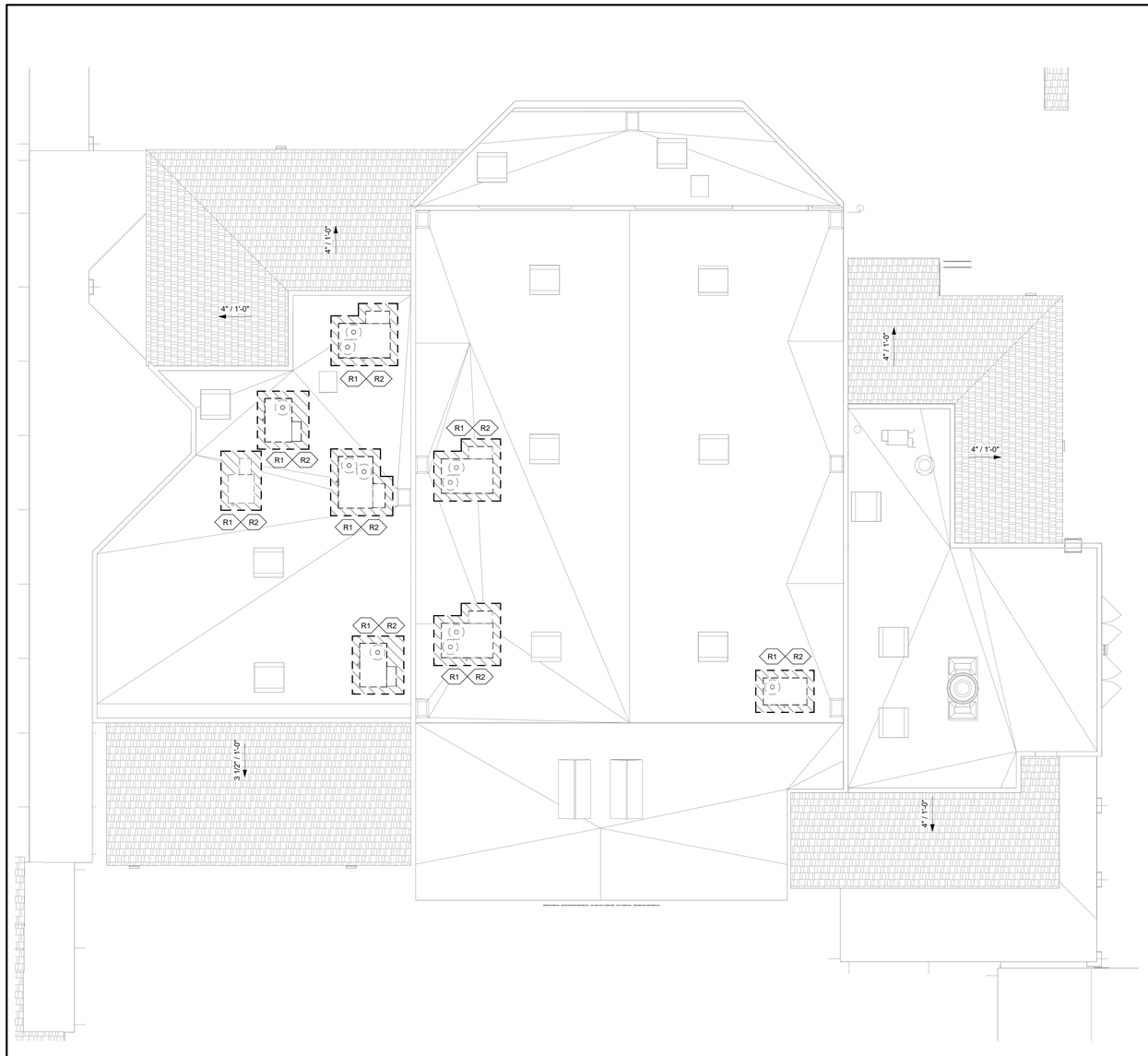

DEMOLITION NOTES

R1 Cut and Patch existing Built-Up Roofing system. Refer to the Roof Plan Legend for notes on the extents.

R2 Contractor to Verify Limits of Demolition.

N

SYMBOLS

BUILT-UP ROOFING
Cut and Patch existing roofing system.
Match existing roofing system
Determine extents with roof manufacture for warranty

PLUMBING, Roof Drain and Overflow

ROOF ACCESSORIES, Roof Hatch

PV — PLUMBING, Vent

+14'-8" TOP — Elevation above finish floor

7 — Direction of slope

Line of Wall below

Reference Point

LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.

H18
No Scale

Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING H
DEMOLITION ROOF PLAN

Drawing

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No.	Revision/Submission	Date

Revision

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		Designed By: MF	
Scale:	1/8" = 1'-0"	Drawn By: CC	H/A301
Project Number:	2228	Checked By: KX	
Date:	12/09/2022	Reviewed By: MF	

A7
1/8" = 1'-0"

Demolition Roof Plan

5/26/2023 11:23:30 AM
D:\2228_WarrenJHS_APEX_SITE_V23_Carlic47R8P.rvt

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15-95

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SYMBOLS

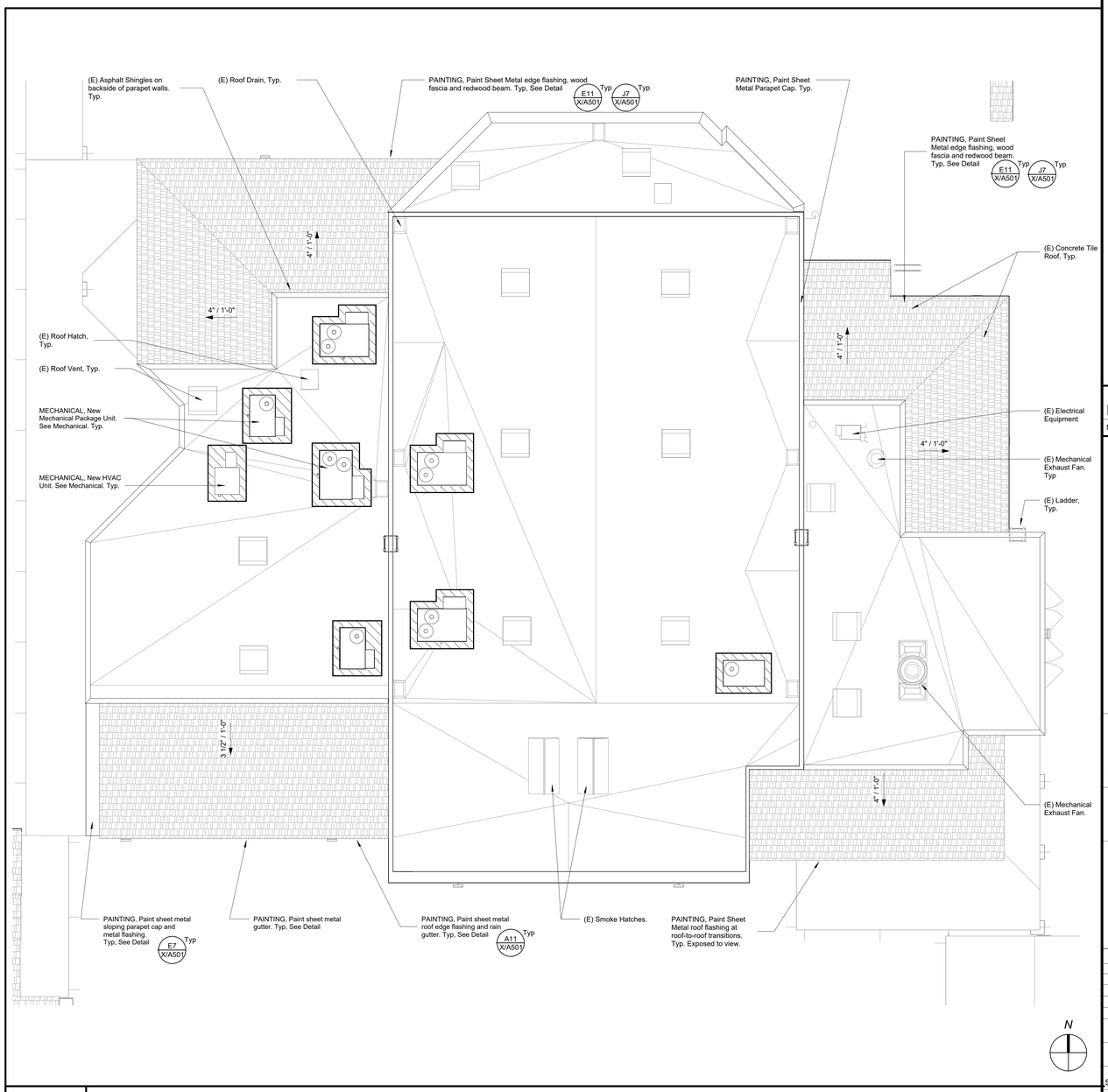
	BUILT-UP ROOFING Cut and Patch existing roofing system. Match existing roofing system Determine extents with roof manufacture for warranty
	PLUMBING, Roof Drain and Overflow
	ROOF ACCESSORIES, Roof Hatch
PV	PLUMBING, Vent
+14'-6" TOP	Elevation above finish floor
7	Direction of slope
	Line of Wall below
	Reference Point
	LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.



A7
1/8" = 1'-0"
Roof Plan

H18
No Scale
Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
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BUILDING H
ROOF PLAN
Drawing

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Project Number:	2228	Checked By: KX	
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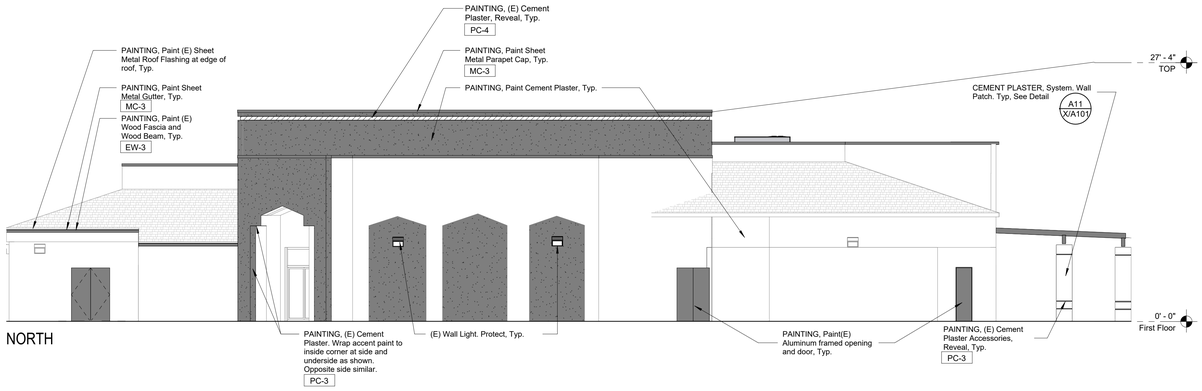

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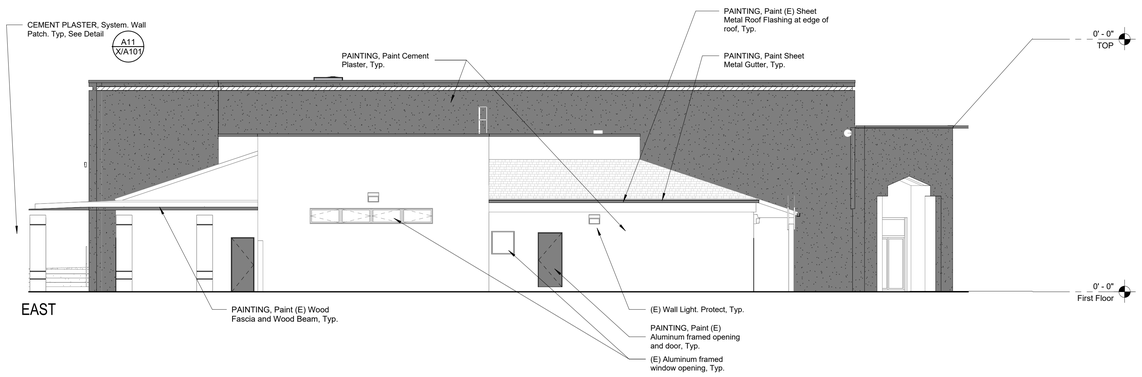

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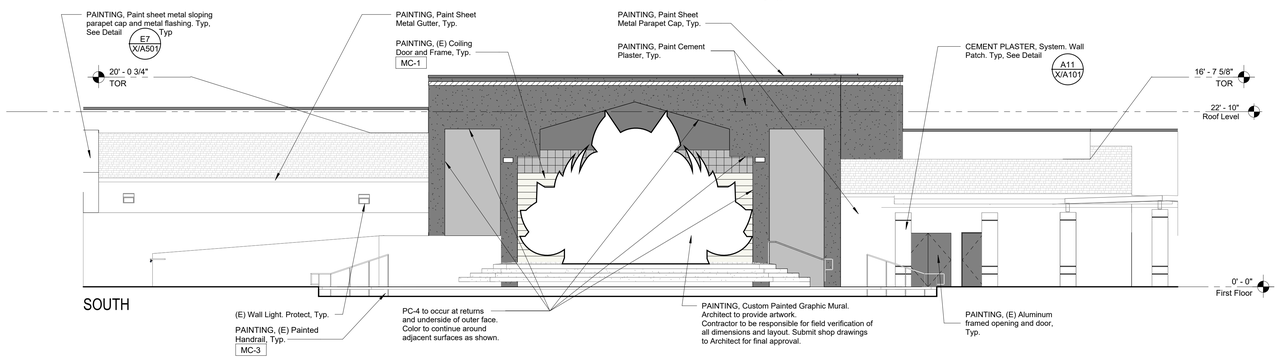

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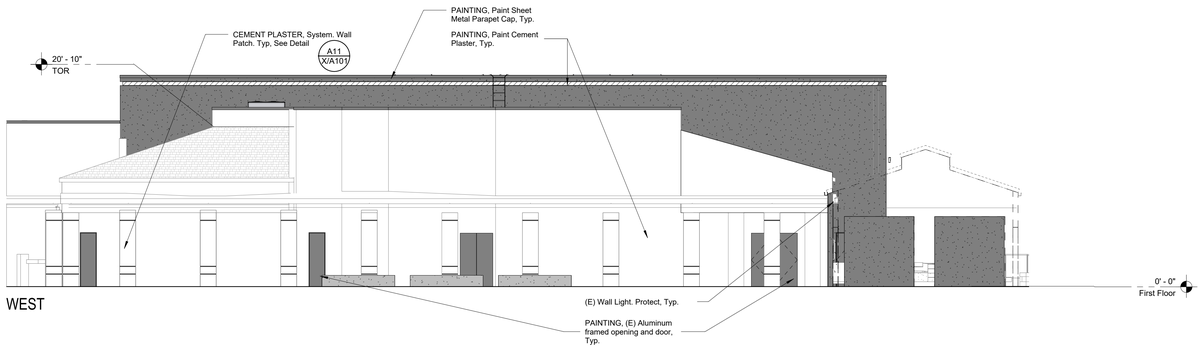

WEST

DSA File No.:
15-95

DSA Application No.:
03-122615

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DATE: 07/20/2023

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EXTERIOR COLOR LEGEND

Plaster Colors

PC-1	White Unless Noted Otherwise
PC-2	Gray
PC-3	Blue
PC-4	Yellow

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Block Colors

BC-1	Gray Unless Noted Otherwise

All Existing Block to be BC-1, UNO.

Wood Colors

EW-1	White
EW-3	Blue

All Existing Wood Beams and Fascia to be EW-3, UNO.
All Existing 2x2 Wood Trellis Slats to be EW-1, UNO.

Door Colors

DC-1	White (NOT USED)
DC-2	(NOT USED)
DC-3	Blue

All (E) "Blue" Metal Doors to be repainted DC-3, UNO.

Metal Colors

MC-1	White Unless Noted Otherwise
MC-2	Gray
MC-3	Blue
MC-4	Match (E) Bronze

All (E) Hollow Metal Frames to be repainted MC-4 to match existing, UNO.
All Steel and Fabrications to match adjacent wall, UNO.

Storefront Colors

SF-1	Match existing bronze

All new storefront to be SF-1, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.

Outer Face Wall
Soffit
Inner Face Wall

4. Horizontal soffits adjacent to fascia board shall be PC-1, UNO.

Fascia Board
PC-1 UNO.

SYMBOLS

H	ELECTRICAL, Horn
S	ELECTRICAL, Speaker
	ELECTRICAL, Outlet
	ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO
	Glass

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typ
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.
4. PAINTING, Repaint all existing exterior surfaces.
5. PAINTING, Repaint all existing gutters, downspouts and leaders MC-3 (Blue).
6. PAINTING, all roof-to-roof flashing to be painted to match adjacent cement plaster.
7. PAINTING, all roof flashing at fascia and edge of tile roof to be painted to match MC-3 (Blue), UNO.

E18
No Scale

Exterior Elevations Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING H
EXTERIOR ELEVATIONS

Drawing

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No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright G002 Darden Architects
Scale:	As indicated	Drawn By: CC	H/A401
Project Number:	2228	Checked By: MF	
Date:	12/09/2022	Reviewed By: MF	

A1
1/8" = 1'-0"

Exterior Elevations

Refer to E18 for Exterior Color Legend Symbols, Abbreviations and Notes

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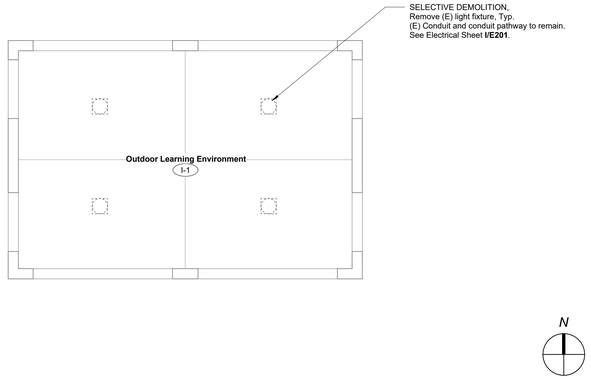
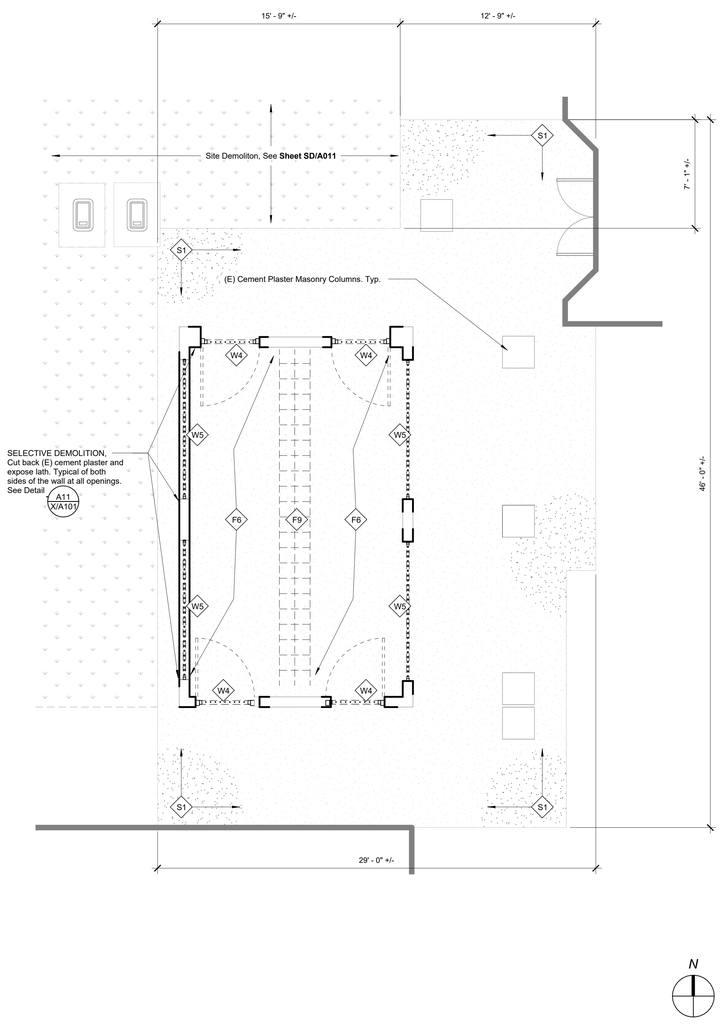


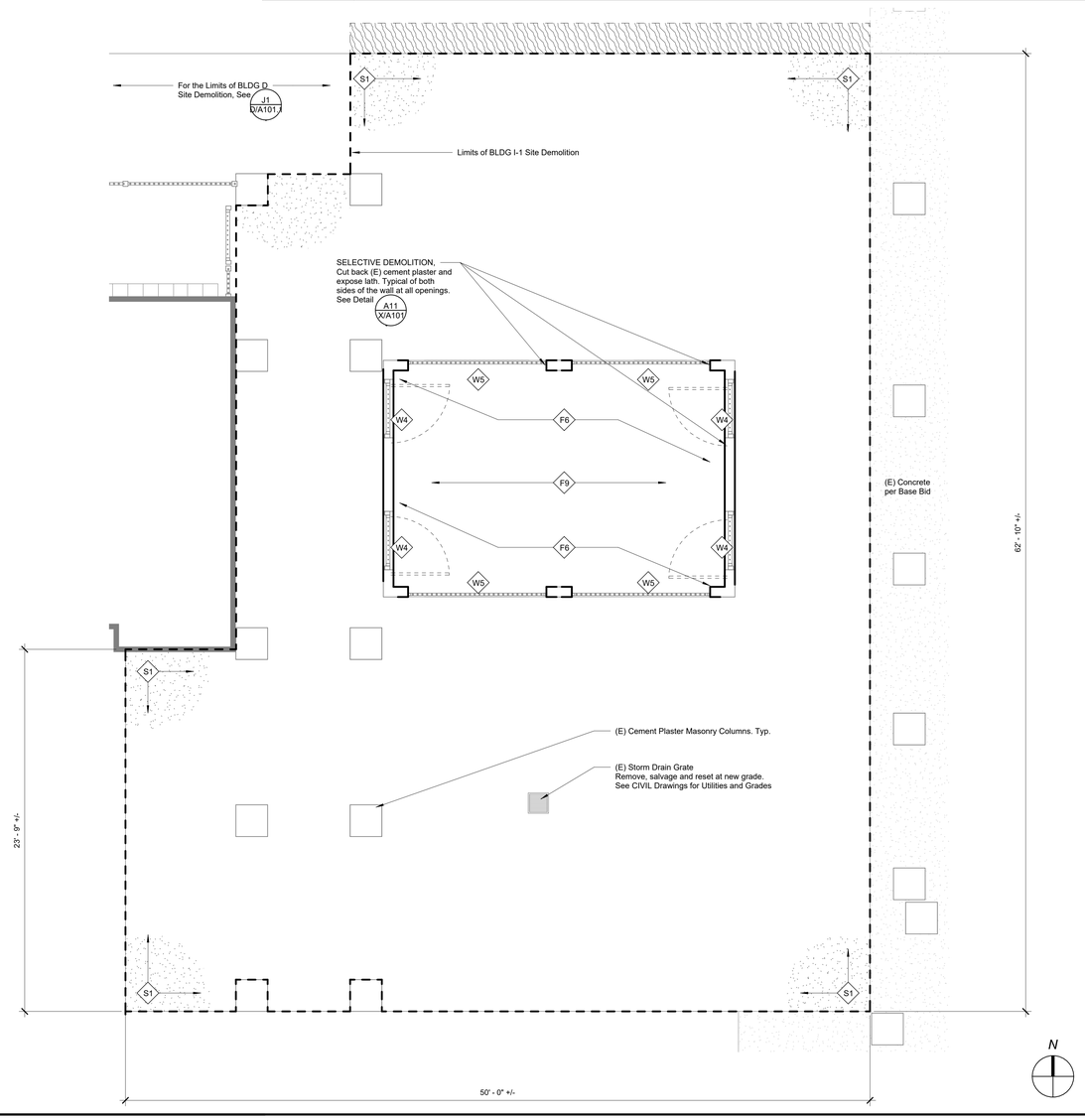
M11 — Building I-1 & I-5 Demolition Reflected Ceiling Plan

1/4" = 1'-0"



A1 — Building I-5 Demolition Floor Plan

1/4" = 1'-0"



A7 — Building I-1 Demolition Floor Plan

1/4" = 1'-0"

DSA File No.: 15-95

DSA Application No.: 03-122615

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SYMBOLS

- Existing Wall
- Remove Existing Wall
- Remove Existing Building Item (See Demolition Note, Plumbing, Mechanical, and Electrical Drawings)
- Room name 101 — Room Designation
- F1 — Demolition Key Note Symbol

NOTES

1. See Specifications section, SELECTIVE DEMOLITION, See Plumbing, Mechanical, and Electrical Drawings and Specifications
2. Remove materials, equipment, and finishes indicated by demolition key notes
3. All Concrete removed shall be within sawcut lines or Existing expansion / control joint lines.
4. Coordinate removal of door hardware with HARDWARE in the specifications.
5. Where Demolition work is indicated, Contractor shall remove and reinstall any or all items necessary for installation of new work. Existing area affected by demolition work shall be patched and repaired to match Existing construction.
6. Any damage resulting from the modernization activity shall be corrected at no additional expense to the Owner and all surfaces cleaned and readied to receive new work.
7. Remove, cut, and patch work in a manner to minimize damage and to provide means of restoring products and finishes to original condition.
8. Where new work abuts or aligns with Existing, make a smooth and even transition. Patch work shall match Existing adjacent work in texture and appearance.
9. When Finished surfaces are cut so that a smooth transition with new work is not possible, terminate Existing surfaces along a straight line at a natural line of division and make recommendations to the Architect.

K18 — Demolition Floor Plan Legend

NO SCALE

DEMOLITION NOTES

- F6 — SELECTIVE DEMOLITION, Saw Cut and Remove Concrete Slab.
- F9 — SELECTIVE DEMOLITION, Remove Metal Lockers and Concrete Locker Base
- W4 — SELECTIVE DEMOLITION, Remove Steel Panel Gate and 4X4 TS Gate Frame and Wall Anchors.
- W5 — SELECTIVE DEMOLITION, Remove Steel Panel Frame / Pickets. Remove all Masonry Anchors.
- S1 — SELECTIVE DEMOLITION, Remove Concrete Walk to the nearest expansion joint. Saw cut at control joints, when noted.

G18 — Demolition Floor Plan Keynotes

NO SCALE

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING I (ALTERNATE BID NO. 1)
DEMOLITION FLOOR AND CEILING PLAN

Drawing

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Architect

No.	Revision/Submission	Date

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	Designed By: MF	Copyright 2023 Darden Architects
Scale: As indicated	Drawn By: KX	I/A001.1
Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

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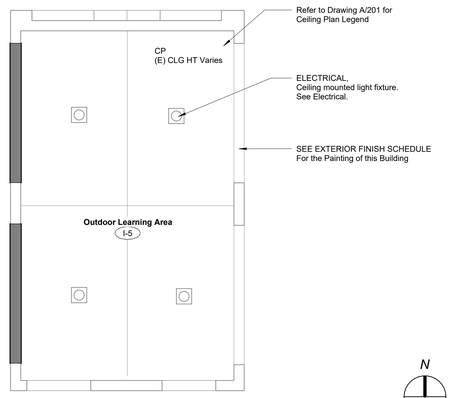
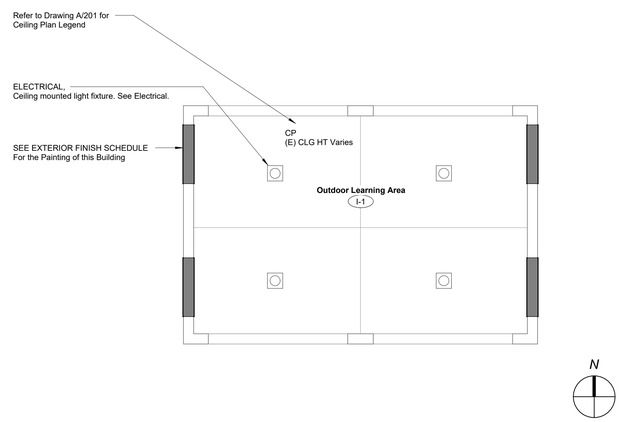


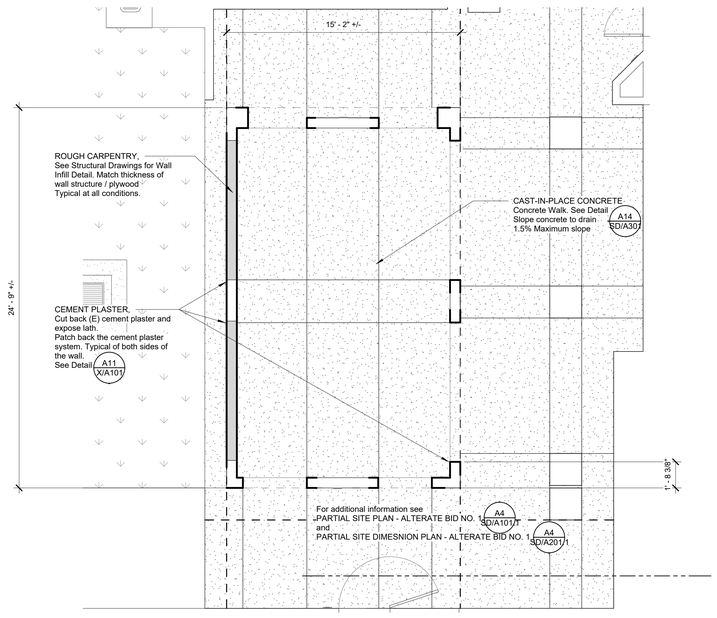
M1 | Building I-5 Reflected Ceiling Plan

1/4" = 1'-0"



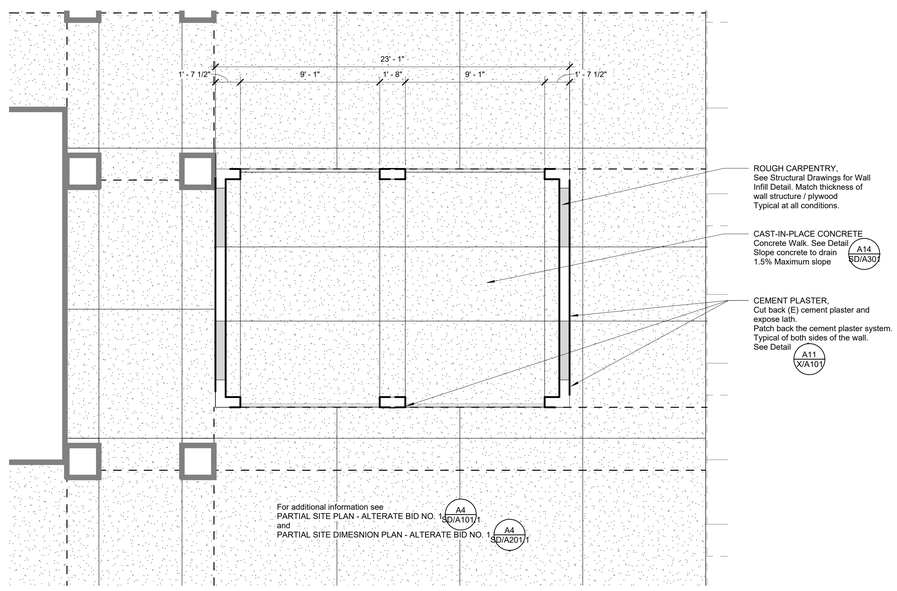
M6 | Building I-1 Reflected Ceiling Plan

1/4" = 1'-0"



A1 | Building I-5 Floor Plan

1/4" = 1'-0"



A7 | Building I-1 Floor Plan / Site Plan

1/4" = 1'-0"

DSA File No.:
15-95

DSA Application No.:
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SYMBOLS

- (E) Stud Framed Wall to Remain, Typical
- Stud Wall, Studs, and Interior Wall.
- 1 Hr. Corridor Wall - Fire Partition (1 Hr. Fire Resistive Construction, 20 Min. Door Assemblies, 45 Min. Window Assemblies)
- 1 Hr. Fire Barrier - (1 Hr. Fire Resistive Construction, 60 Min. Door Assemblies)
- 1 Hr. Occupancy Separation / Fire Barrier - (1 Hr. Fire Resistive Construction, 45 Min. Door Assemblies, 45 Min. Window Assemblies)
- 101 / a — Opening Group No. Refer to Door or Window Opening Schedules
- Eq Mark — Equipment Item No. Refer to Equipment Schedule
- Room name / 101 — Room Designation
- # # / S — Wall Assembly Symbols. Refer to Sheet X/A101
- Reference Point

ABBREVIATIONS

FEC	FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Type FEC-1, Unless Noted Otherwise.
FF	Face of Finish
FOC	Face of Concrete
FD	Floor Drain
FOM	Face of Masonry
FOS	Face of Stud
FS	Floor Sink
HB	Hose Bib
MO	Masonry Opening
UNO	Unless Noted Otherwise
RO	Rough Opening
VCT	RESILIENT FLOORING, Vinyl Composition Tile
Typ.	Typical
Sim.	Similar
OH	Opposite Hand

NOTES

1. Vertical lifts will be required for the installation of some of the pathway with high ceilings. Verify the type of the lift with fit through the available opening widths; the vertical mullions for the double doors are removable. Paint Hollow Metal Door & Frames that are damaged.
2. When lifts are use in BLDG H and K, they shall have non-marring wheels. Lifts shall be placed on 3/4" thick plywood, and not on the Gym or MPR floor.
4. All Exterior Walls shall be Wall Assembly Type 6.B / E.M Unless Noted Otherwise.
5. All Interior Walls shall be Wall Assembly Type 6.E / I.M Unless Noted Otherwise.
6. All Dimensions are to Face of Stud (FOS) or Center Line, Unless Noted Otherwise.
7. All Elevation Dimensions are above Finish Floor at each floor level, Unless Noted Otherwise.
8. Dimensions noted as "+/-" are nominal.
9. Floor Drains (FD) and Floor Sinks (FS) shall be set -3/4" and a min. of 3'-0" from nearest wall, Unless Noted Otherwise.
10. IDENTIFYING DEVICES, For Room Signage refer E1 / X/A702 to and Specifications

H18 | Floor Plan Legend

No Scale

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING I (ALTERNATE BID #1)
FLOOR AND REFLECTED CEILING PLAN

Drawing

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Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

6/7/2023 7:25:28 AM
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DSA File No.:
15-95

DSA Application No.:
03-122615

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DATE: 07/20/2023

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SYMBOLS

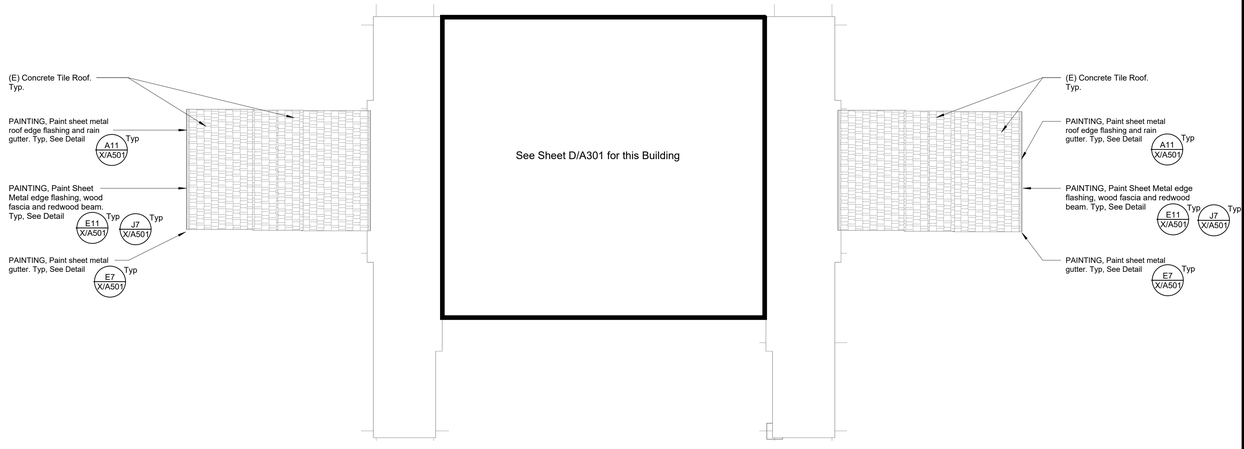
	BUILT-UP ROOFING Cut and Patch existing roofing system. Match existing roofing system Determine extents with roof manufacture for warranty
	PLUMBING, Roof Drain and Overflow
	ROOF ACCESSORIES, Roof Hatch
PV	PLUMBING, Vent
+14'-6" TOP	Elevation above finish floor
7	Direction of slope
	Line of Wall below
	Reference Point
	LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.



N

A7
1/8" = 1'-0"
Building I-1 & I-2 Roof Plan

H18
No Scale
Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313
Project

BUILDING I (ALTERNATE BID #1)
ROOF PLAN
Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: MF	Copyright G002 Darden Architects
Scale: 1/8" = 1'-0"	Drawn By: CC	I/A301.1
Project Number: 2228	Checked By: KX	
Date: 12/09/2022	Reviewed By: MF	

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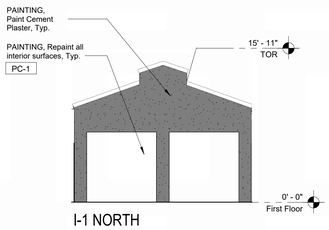

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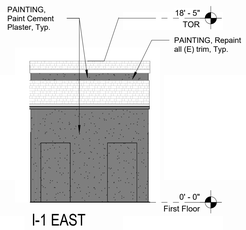

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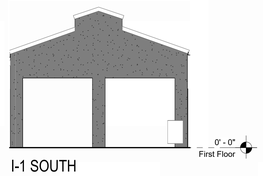

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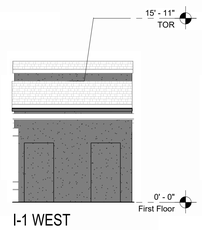

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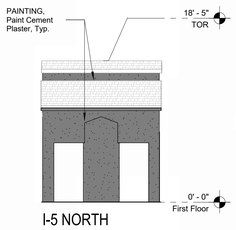

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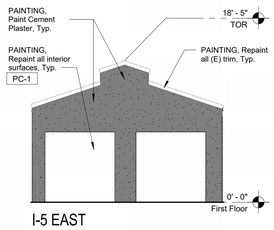

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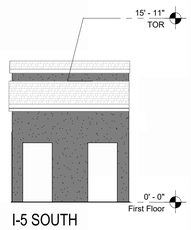

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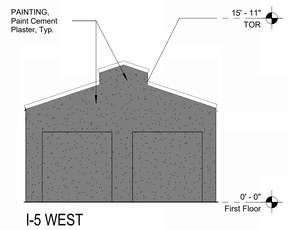

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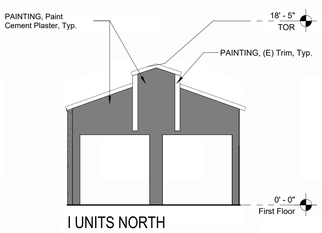

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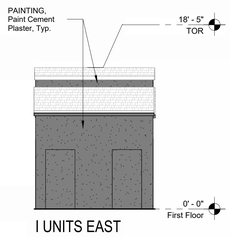

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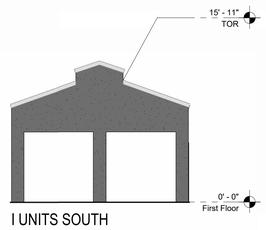

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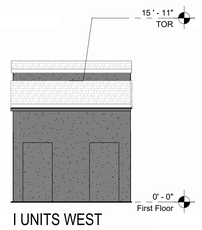

I UNITS WEST

A1 | Exterior Elevations

1/8" = 1'-0"

Refer to E18 for Exterior Color Legend Symbols, Abbreviations and Notes

DSA File No.:
15-95

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DATE: 07/20/2023

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EXTERIOR COLOR LEGEND

Plaster Colors

PC-1	White Unless Noted Otherwise
PC-2	Gray
PC-3	Blue
PC-4	Yellow

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Block Colors

BC-1	Gray Unless Noted Otherwise

All Existing Block to be BC-1, UNO.

Wood Colors

EW-1	White
EW-3	Blue

All Existing Wood Beams and Fascia to be EW-3, UNO.
All Existing 2x2 Wood Trellis Slats to be EW-1, UNO.

Door Colors

DC-1	White (NOT USED)
DC-2	(NOT USED)
DC-3	Blue

All (E) "Blue" Metal Doors to be repainted DC-3, UNO.

Metal Colors

MC-1	White Unless Noted Otherwise
MC-2	Gray
MC-3	Blue
MC-4	Match (E) Bronze

All (E) Hollow Metal Frames to be repainted MC-4 to match existing, UNO.
All Steel and Fabrications to match adjacent wall, UNO.

Storefront Colors

SF-1	Match existing bronze

All new storefront to be SF-1, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.
4. Horizontal soffits adjacent to fascia board shall be PC-1, UNO.

Fascia Board
PC-1 UNO.

Outer Face Wall
Soffit
Inner Face Wall

SYMBOLS

H	ELECTRICAL, Horn
S	ELECTRICAL, Speaker
	ELECTRICAL, Outlet
	ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO
	Glass

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typ
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.
4. PAINTING, Repaint all existing exterior surfaces.
5. PAINTING, Repaint all existing gutters, downspouts and leaders MC-3 (Blue).
6. PAINTING, all roof-to-roof flashing to be painted to match adjacent cement plaster.
7. PAINTING, all roof flashing at fascia and edge of tile roof to be painted to match MC-3 (Blue), UNO.

E18 | Exterior Elevations Legend

No Scale

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING I (ALTERNATE BID #1)
EXTERIOR ELEVATIONS

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REGISTERED K. F. KAPOOR
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: KX
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 12/09/2022

I/A401.1

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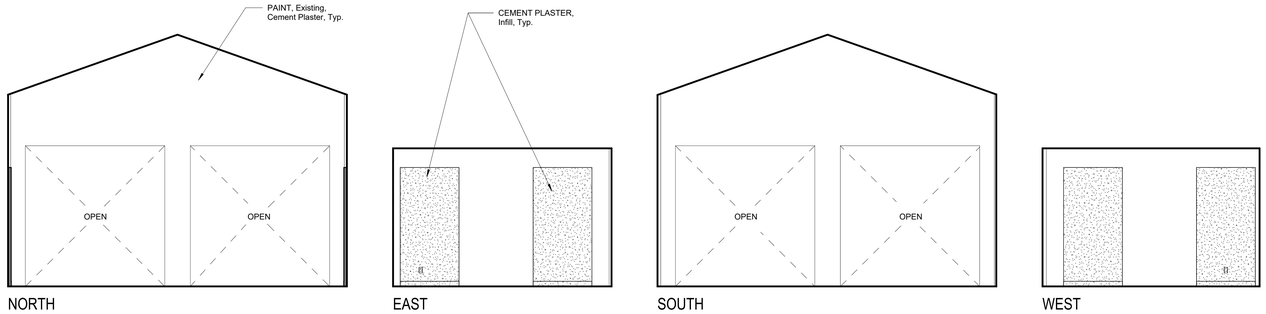
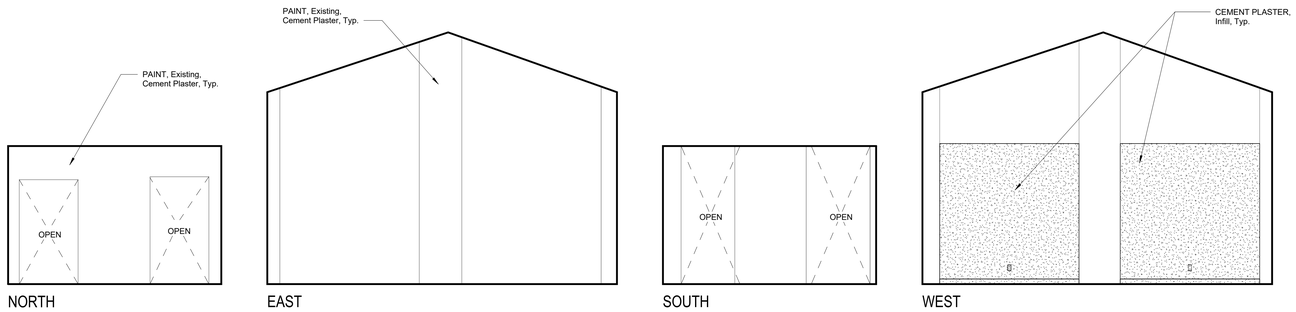


I-1 Outdoor Learning Environment



I-5 Outdoor Learning Environment

DSA File No.:
15-95

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SYMBOLS

- Cabinet Group No. Refer to Modular Casework Schedule and Lab Casework Schedule.
- 10 — Equipment Item No. Refer to Equipment Schedule.
- FEC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls
- FEBC — FIRE PROTECTION SPECIALTIES, Fire Extinguisher/Blanket Cabinet, Top of Cabinet @ +5'-0", Unless Noted Otherwise. Provide Fire Rated Cabinet at Rated Walls. Provide Surface Mounted Cabinet at Rated Walls Where Stud Depth is Less than 6" and at Masonry Walls.
- ELECTRICAL, Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Clock/Speaker @ +7'-6" to center of device, Unless Noted Otherwise.
- ELECTRICAL, Outlet
- ELECTRICAL, Light Switch
- FA — ELECTRICAL, Fire Alarm Device
- V — ELECTRICAL, Volume Control
- TV — ELECTRICAL, Television Outlet
- T — MECHANICAL, Thermostat
- HB — PLUMBING, Hose Bib
- D — ELECTRICAL, Data Outlet
- M — ELECTRICAL, Microphone Outlet
- IS — ELECTRICAL, Intrusion Sensor
- MS — ELECTRICAL, Motion Sensor
- TO — ELECTRICAL, Telephone Outlet

ABBREVIATIONS

Gl.	Glass
KS	Knee Space
OH	Opposite Hand
Typ.	Typical
Sim.	Similar
Dia.	Diameter
UNO	Unless Noted Otherwise

NOTES

1. All Details, Materials and Finishes shall be considered typical for all similar conditions Unless Noted Otherwise.
2. Refer to Plumbing, Mechanical, Telecommunications, Food Service, and Electrical for all wall mounted devices and coordinate location and heights with Architectural (ie. casework, equipment, etc.)
3. Locate and mount TOILET ACCESSORIES and PLUMBING per detail A11 X/A601 Unless Noted Otherwise.
4. Provide backing at all TOILET ACCESSORIES, TOILET PARTITIONS, and IDENTIFYING DEVICES per detail N14 X/A601 Unless Noted Otherwise.
5. Provide Backing for TOILET ACCESSORIES, Grab Bars per detail E4 X/A601
6. Locate and mount IDENTIFYING DEVICES per detail E1 X/A702 Unless Noted Otherwise.
7. Provide backing at all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per detail N14 X/A601
8. Attach all MODULAR CASEWORK and/or LAB CASEWORK AND EQUIPMENT per details L14 X/A301 L11 X/A301
9. WALL COVERINGS, Vinyl Covered Tackboard, See detail N4 X/A601

G18 — Interior Elevation Legend
No Scale

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

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Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

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Scale: 1/4" = 1'-0"
Project Number: 2228
Date: 3/20/2022

I/A601.1

A1 — Interior Elevations
1/4" = 1'-0"

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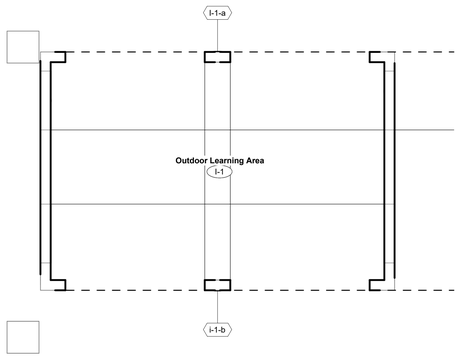
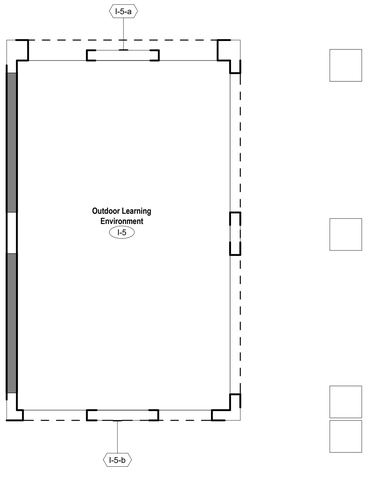
Signage Schedule Building I-1 and I-5

Building	Sign Mark	Sign Type	Sign Material	Sign Copy Line 1	Sign Copy Line 2	Sign Copy Line 3	Sign Copy Line 4	Mtg Height	Mtg Cond	Remarks
I	I-1-a	7a 3 1/2" x 7"	A	COOKING	PROHIBITED	NOT TO BE USED	FOR STORAGE	5' - 0"	2	-
I	i-1-b	7a 3 1/2" x 7"	A	COOKING	PROHIBITED	NOT TO BE USED	FOR STORAGE	5' - 0"	2	-
I	I-5-a	7a 3 1/2" x 7"	A	COOKING	PROHIBITED	NOT TO BE USED	FOR STORAGE	5' - 0"	2	-
I	I-5-b	7a 3 1/2" x 7"	A	COOKING	PROHIBITED	NOT TO BE USED	FOR STORAGE	5' - 0"	2	-

N11 — Signage Schedule
NO SCALE



J11 — Signage Floor Plan, Building I-1
1/4" = 1'-0"



A14 — Signage Floor Plan, Building I-5
1/4" = 1'-0"

MOUNTING CONDITION

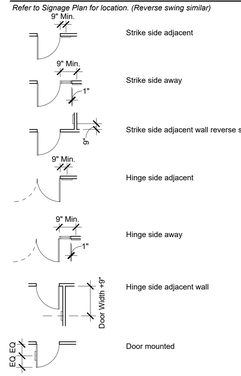
1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

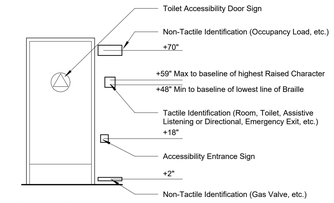
SIGN MATERIAL

A	=	Acrylic
EM	=	Exterior Metal.
IM	=	Interior Metal.
EP	=	Exterior Plastic.
IP	=	Interior Plastic.
D	=	Decal.

MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)





Typical Mounting Heights

Scale: N.T.S.

NOTES

1. Refer to Specification Section 10 14 00 IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. Verify Sign Copy with Owner prior to fabrication, "-" indicates a blank space
4. Sign copy shall say "Classroom X". Room number shall be determined by Owner.
5. IDENTIFYING DEVICES, For Height, Mounting Condition, and Sign Description, refer to Detail E1 / X/A702

G18 — Signage Schedule Legend
No Scale

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING I (ALTERNATE BID #1)
SIGNAGE PLAN AND SCHEDULE

Drawing

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Architect

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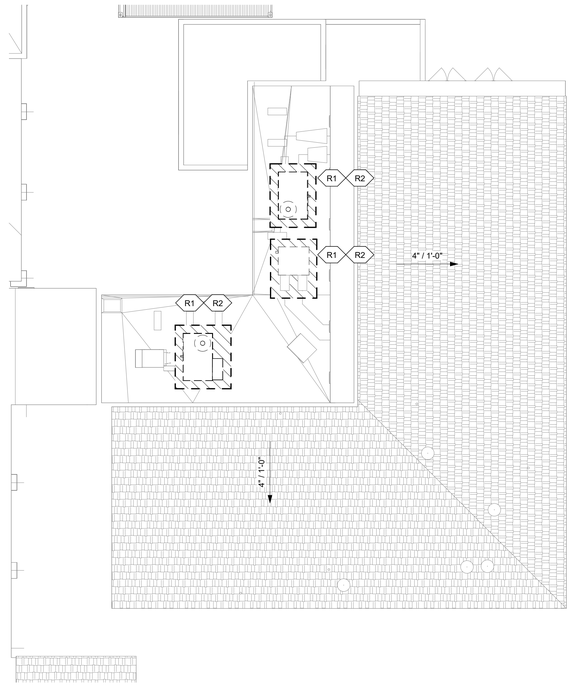


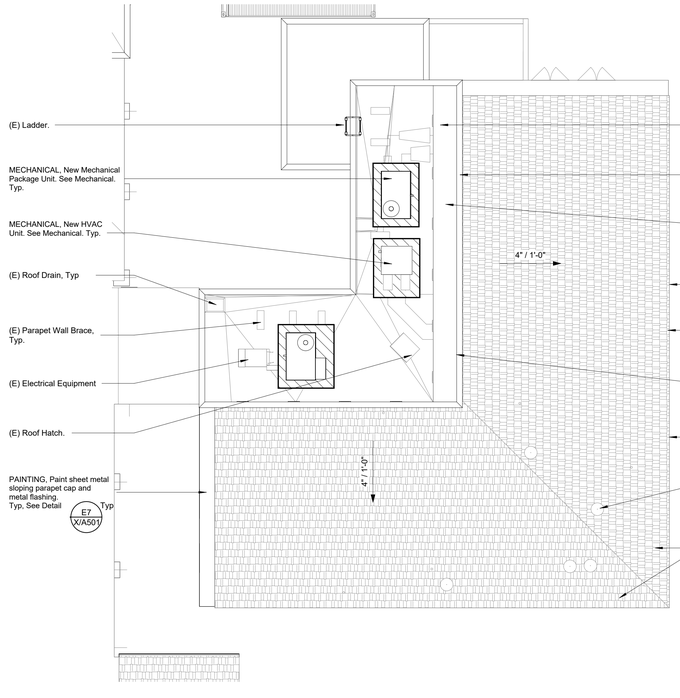
DEMOLITION NOTES

R1 Cut and Patch existing Built-Up Roofing system. Refer to the Roof Plan Legend for notes on the extents.

R2 Contractor to Verify Limits of Demolition.

N

J7
1/8" = 1'-0"
Demolition Roof Plan



N

A7
1/8" = 1'-0"
Roof Plan

SYMBOLS

	BUILT-UP ROOFING Cut and Patch existing roofing system. Match existing roofing system Determine extents with roof manufacture for warranty
	PLUMBING, Roof Drain and Overflow
	ROOF ACCESSORIES, Roof Hatch
PV	PLUMBING, Vent
+14'-8" TOP	Elevation above finish floor
7	Direction of slope
	Line of Wall below
	Reference Point
	LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.

H18
No Scale
Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313
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BUILDING J
DEMOLITION ROOF & ROOF PLAN
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Architect

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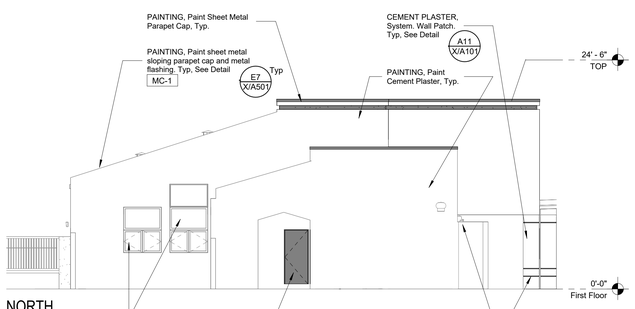

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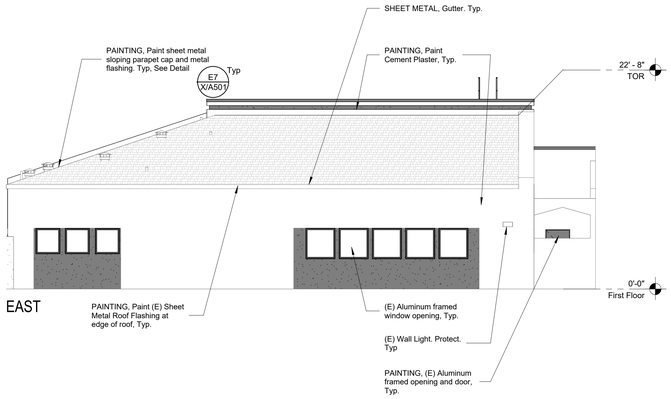

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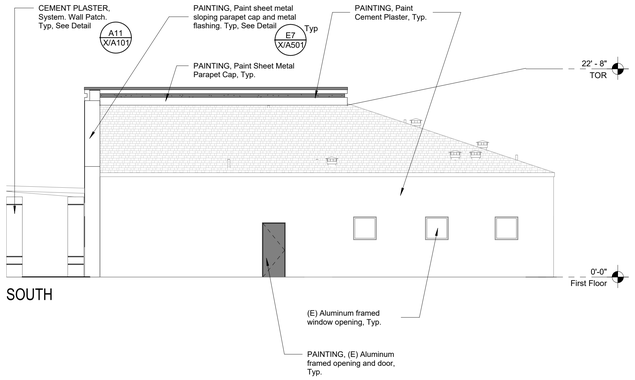

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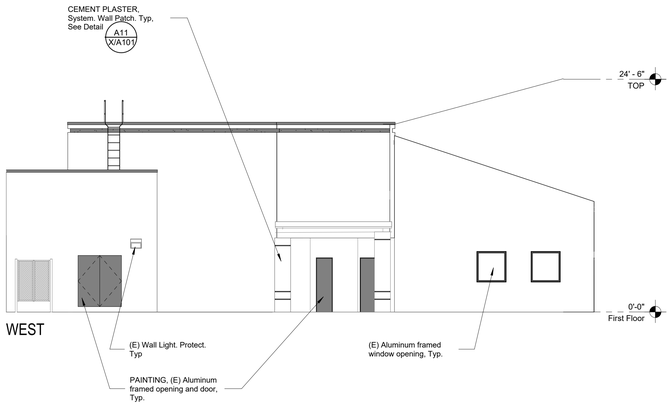

WEST

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023
Agency Approval

EXTERIOR COLOR LEGEND

Plaster Colors

PC-1	White Unless Noted Otherwise
PC-2	Gray
PC-3	Blue
PC-4	Yellow

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

Block Colors

BC-1	Gray Unless Noted Otherwise

All Existing Block to be BC-1, UNO.

Wood Colors

EW-1	White
EW-3	Blue

All Existing Wood Beams and Fascia to be EW-3, UNO.
All Existing 2x2 Wood Trellis Slats to be EW-1, UNO.

Door Colors

DC-1	White (NOT USED)
DC-2	(NOT USED)
DC-3	Blue

All (E) "Blue" Metal Doors to be repainted DC-3, UNO.

Metal Colors

MC-1	White Unless Noted Otherwise
MC-2	Gray
MC-3	Blue
MC-4	Match (E) Bronze

All (E) Hollow Metal Frames to be repainted MC-4 to match existing, UNO.
All Steel and Fabrications to match adjacent wall, UNO.

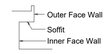
Storefront Colors

SF-1	Match existing bronze

All new storefront to be SF-1, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.



4. Horizontal soffits adjacent to fascia board shall be PC-1, UNO.

SYMBOLS

H	ELECTRICAL, Horn		Glass
S	ELECTRICAL, Speaker		
	ELECTRICAL, Outlet		
	ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO		

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typ
UNO	Unless Noted Otherwise

NOTES

1. CEMENT PLASTER, Cement Plaster System, Accessories, Refer to Detail
2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
3. Refer to Exterior Finish Schedule on Sheet X/A201.
4. PAINTING, Repaint all existing exterior surfaces.
5. PAINTING, Repaint all existing gutters, downspouts and leaders MC-3 (Blue).
6. PAINTING, all roof-to-roof flashing to be painted to match adjacent cement plaster.
7. PAINTING, all roof flashing at fascia and edge of tile roof to be painted to match MC-3 (Blue), UNO.

E18
No Scale

Exterior Elevations Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING J
EXTERIOR ELEVATIONS

Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: CC
Checked By: MF
Reviewed By: MF

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Scale: As indicated
Project Number: 2228
Date: 12/09/2022

J/A401

A1
1/8" = 1'-0"

Exterior Elevations

Refer to E18 for Exterior Color Legend Symbols, Abbreviations and Notes

5/26/2023 11:23:58 AM
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DSA File No.:
15-95

DSA Application No.:
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APP: 03-122615 INC:
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DATE: 07/20/2023

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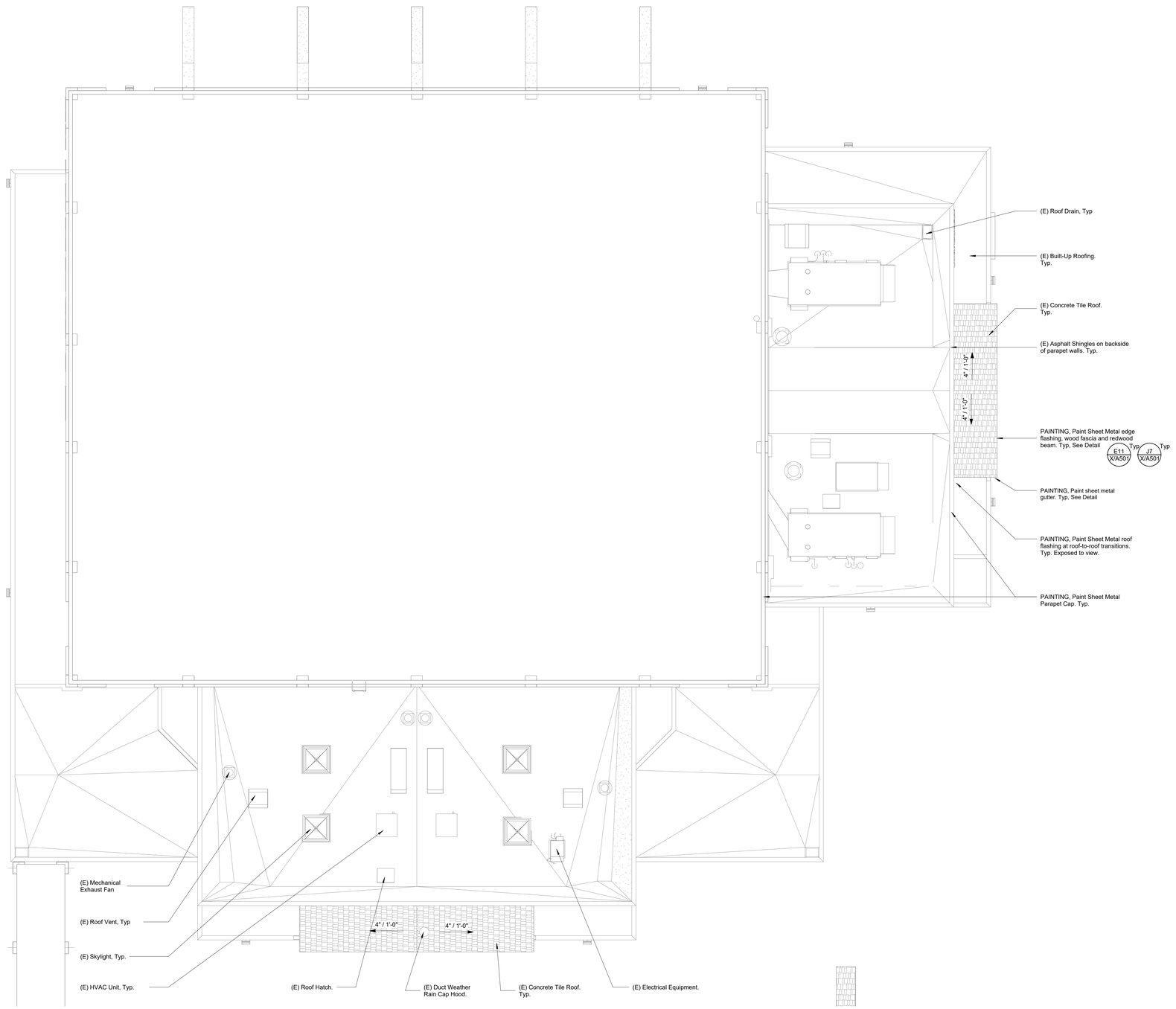

SYMBOLS

- BUILT-UP ROOFING
  Cut and Patch existing roofing system.
  Match existing roofing system
  Determine extents with roof manufacture for warranty
- PLUMBING, Roof Drain and Overflow
- ROOF ACCESSORIES, Roof Hatch
- PV — PLUMBING, Vent
- +14'-6" TOP — Elevation above finish floor
- 7 — Direction of slope
- Line of Wall below
- Reference Point
- LOUVERS

ABBREVIATIONS

TOP	Top of Parapet Framing
FO Frmg.	Face of Framing
OD	PLUMBING, Overflow Drain
TOB	Top of Parapet Brace Framing
TOF	Top of Framing
RD	PLUMBING, Roof Drain
TOM	Top of Masonry
OH	Opposite Hand
DS	Downspout
FOS	Face of Stud
TOS	Top of Steel
Sim.	Similar
Typ.	Typ

NOTES

1. Refer to Mechanical, Electrical for all roof penetrations and roof mounted equipment.

H18
No Scale

Roof Plan Legend

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

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BUILDING K
ROOF PLAN

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Architect

No.	Revision/Submission	Date

Revision

A4
1/8" = 1'-0"

Building K - Roof Plan

		Designed By: MF	Copyright G002 Darden Architects
Scale:	1/8" = 1'-0"	Drawn By: CC	K/A301
Project Number:	2228	Checked By: MF	
Date:	12/09/2022	Reviewed By: MF	

5/26/2023 11:24:00 AM
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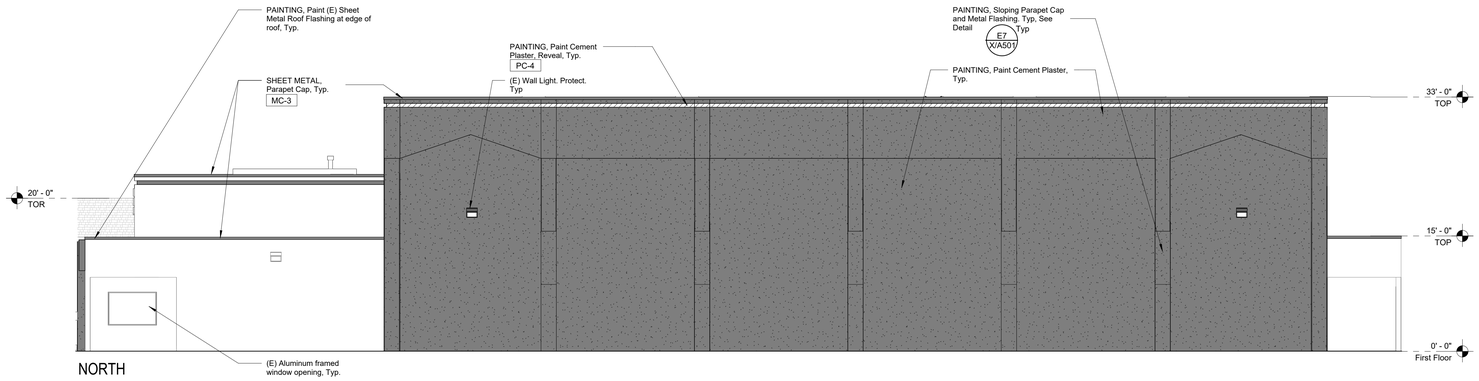

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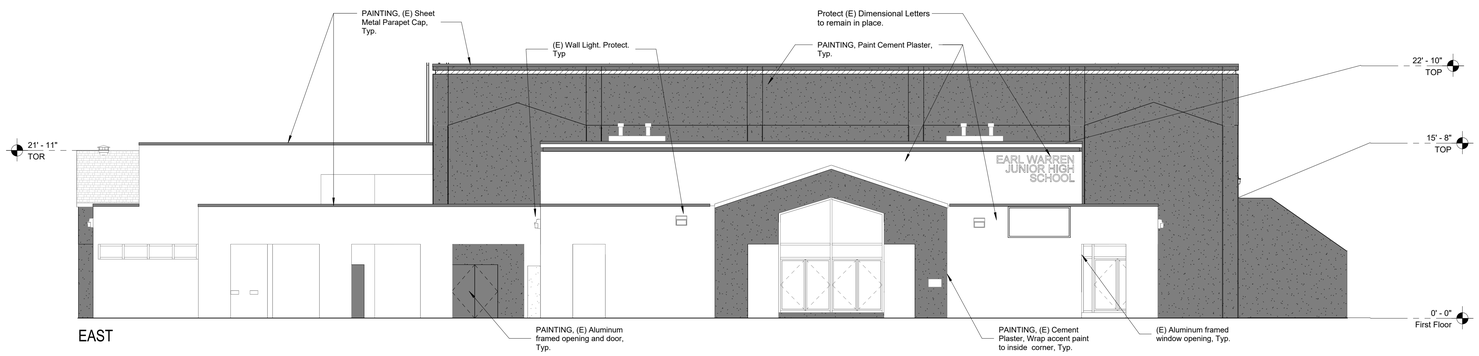

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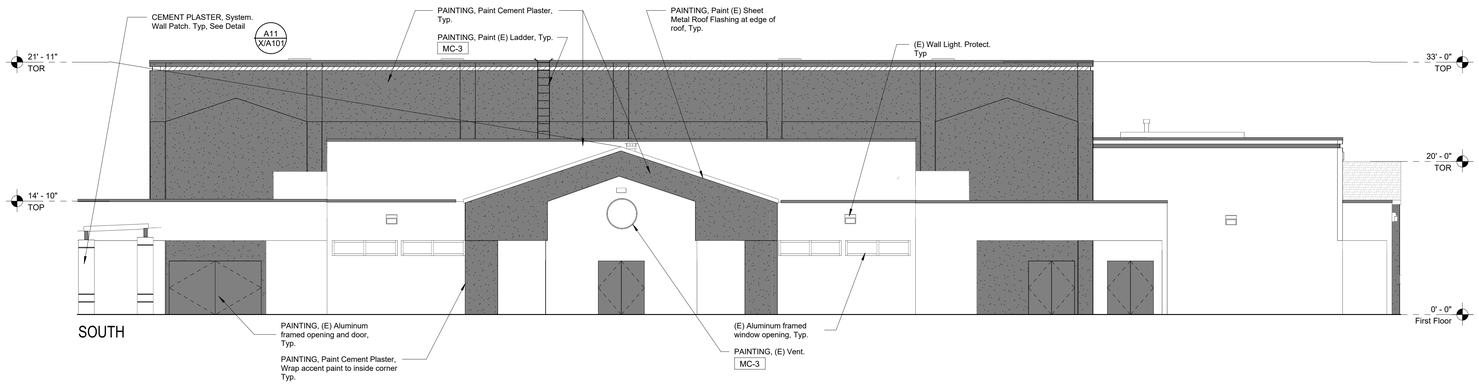

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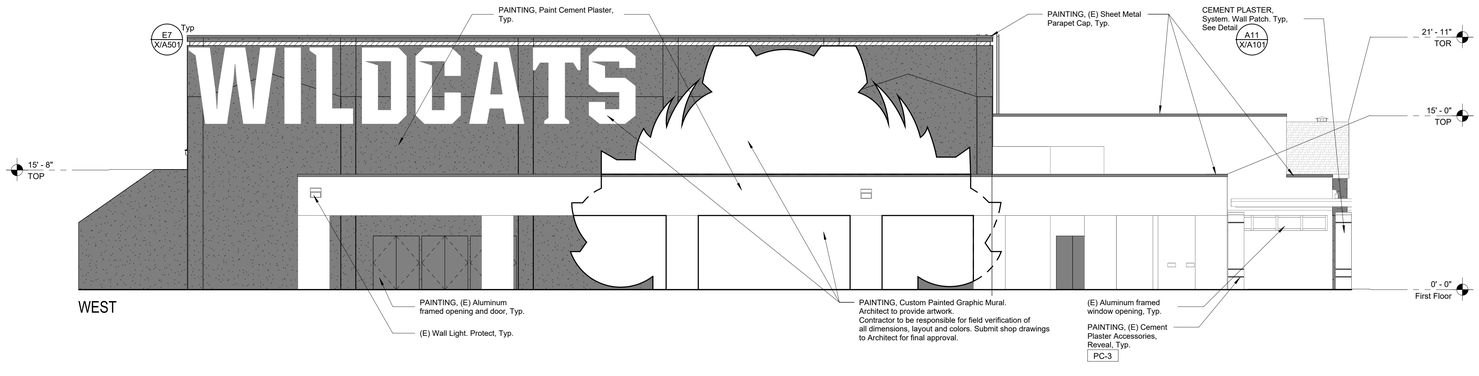

WEST

A1	Exterior Elevations
1/8" = 1'-0"	Refer to E18 for Exterior Color Legend Symbols, Abbreviations and Notes

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023
Agency Approval

EXTERIOR COLOR LEGEND

Plaster Colors

PC-1	White Unless Noted Otherwise
PC-2	Gray
PC-3	Blue
PC-4	Yellow

Plaster walls perpendicular to elevation, not shown elsewhere, shall be the same color as face plane, Unless Noted Otherwise.

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All Existing Wood Beams and Fascia to be EW-3, UNO.
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All (E) "Blue" Metal Doors to be repainted DC-3, UNO.

Metal Colors

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MC-2	Gray
MC-3	Blue
MC-4	Match (E) Bronze

All (E) Hollow Metal Frames to be repainted MC-4 to match existing, UNO.
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Storefront Colors

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All new storefront to be SF-1, UNO.

Color Notes

1. XX-X Color Designation.
2. Parapet caps to match color of wall below, UNO.
3. Soffits to match color of outer face wall, UNO.
   - Outer Face Wall
   - Soffit
   - Inner Face Wall
4. Horizontal soffits adjacent to fascia board shall be PC-1, UNO.
   - Fascia Board
   - PC-1 UNO.

SYMBOLS

H	ELECTRICAL, Horn
S	ELECTRICAL, Speaker
	ELECTRICAL, Outlet
	ELECTRICAL, Light Fixture, +10'-0" B.O. Fixture UNO
	Glass

ABBREVIATIONS

AFF	Above Finished Floor
BO	Bottom of
CJ	Control Joint
DS	Downspout
EJ	Expansion Joint
HB	PLUMBING, Hose Bibb.
OH	Opposite Hand
Sim.	Similar
TO	Top of
TOM	Top of Masonry
TOP	Top of Parapet Framing
TOF	Top of Framing
TOR	Top of Roof
TOS	Top of Steel
TPL	Top of Plate
Typ.	Typ
UNO	Unless Noted Otherwise

NOTES

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2. Refer to Specifications Section Appendix "C" Exterior Color Schedule.
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7. PAINTING, all roof flashing at fascia and edge of tile roof to be painted to match MC-3 (Blue), UNO.

E18	Exterior Elevations Legend
No Scale	

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfiled, CA 93313

Project

BUILDING K
EXTERIOR ELEVATIONS

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Architect

No.	Revision/Submission	Date

Revision

		Designed By: MF	Copyright G002 Darden Architects
Scale:	As indicated	Drawn By: CC	K/A401
Project Number:	2228	Checked By: MF	
Date:	12/09/2022	Reviewed By: MF	

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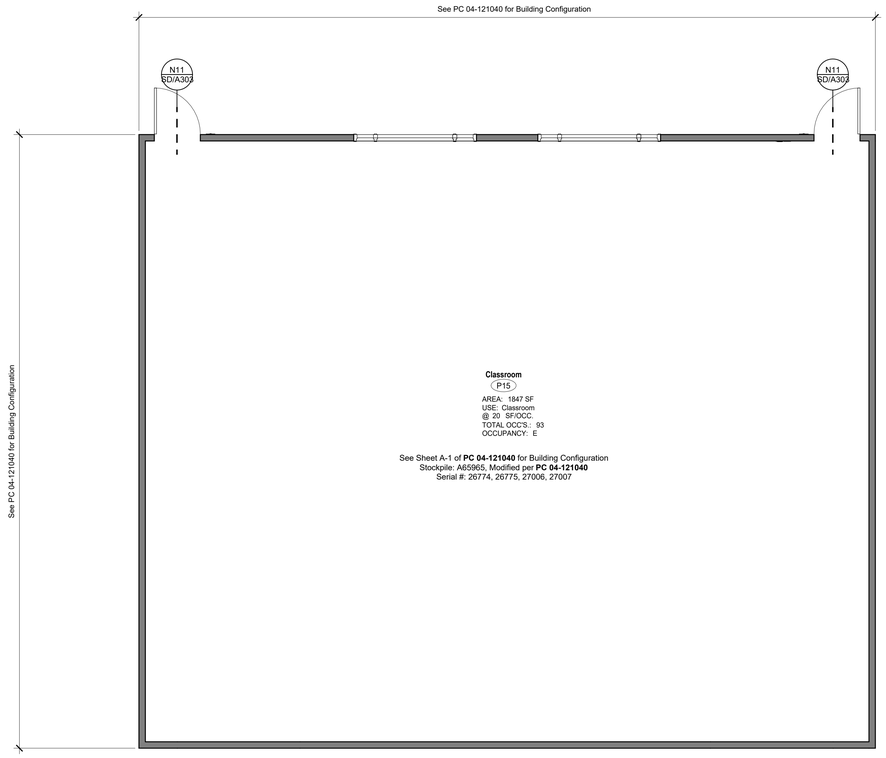
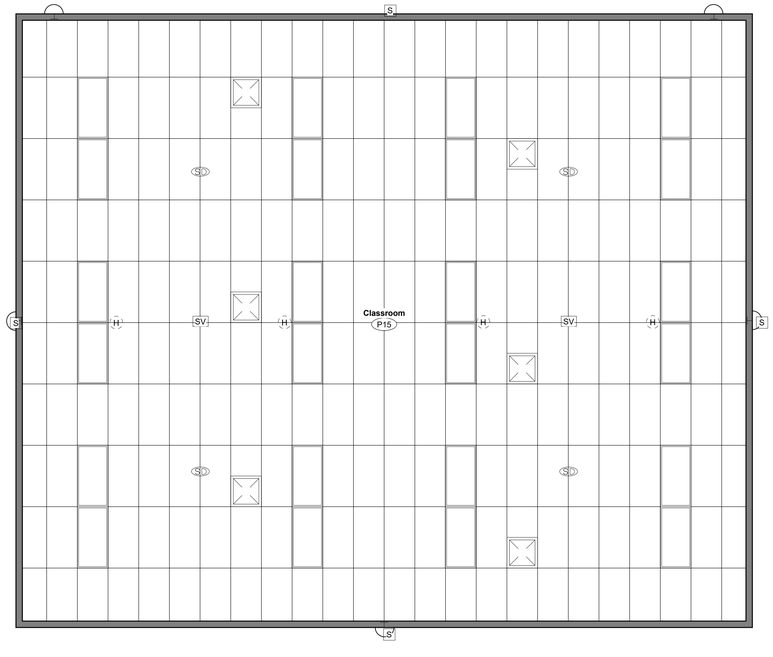


J7

1/4" = 1'-0"

Floor Plan



NOTE:

1) Plan shown is for reference only.

2) Refer to **PC 04-121040**, Sheet A-2, for Ceiling Type, Finish, and Height.

3) Refer to **PC 04-121040**, Sheet E-1 and M-1, for Lighting and Mechanical.

4) Refer to Sheet P/E101 for Power and Signal Plan.

A7

1/4" = 1'-0"

Reflected Ceiling Plan

DSA File No.:
15-95

DSA Application No.:
03-122615

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Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

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PORTABLE BUILDING

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No.	Revision/Submission	Date

Revision

Designed By: MF

Drawn By: CC

Checked By: MF

Reviewed By: MF

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

Project Number: 2228

Date: 3/20/2022

P/A101

5/26/2023 2:36:19 PM
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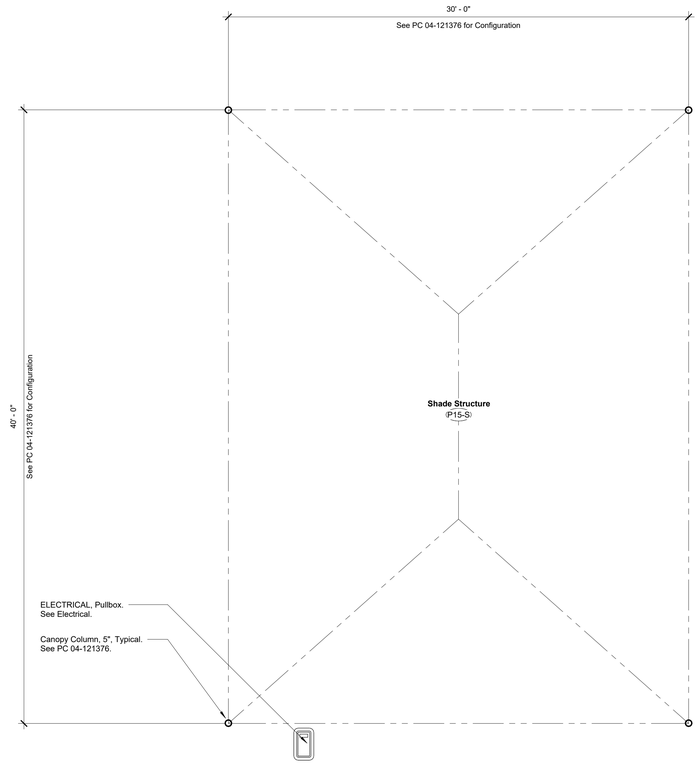
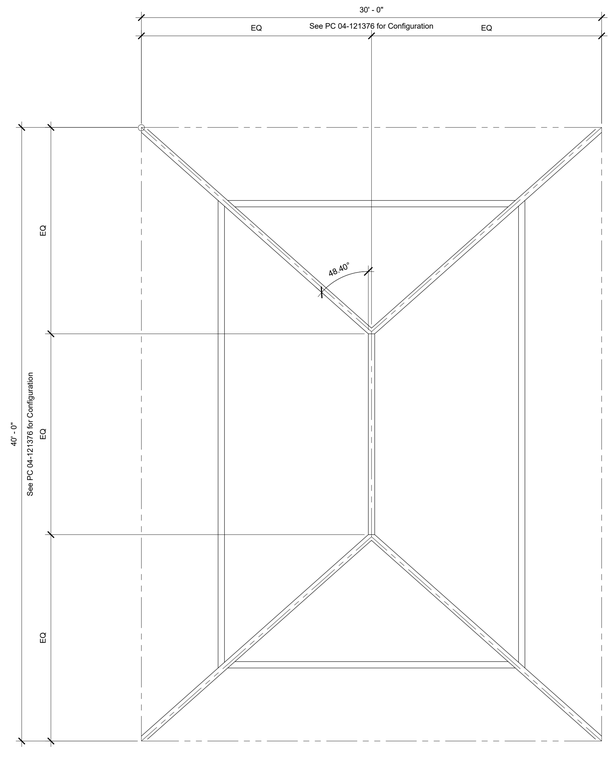


J7
1/4" = 1'-0"
Floor Plan



A7
1/4" = 1'-0"
Reflected Ceiling Plan

DSA File No.:
15-95

DSA Application No.:
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Consultant

Earl Warren Junior High School
Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

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SHADE STRUCTURE

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Exp. 4-30-25
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Project Number:	2228	Checked By: MF	
Date:	3/20/2022	Reviewed By: MF	

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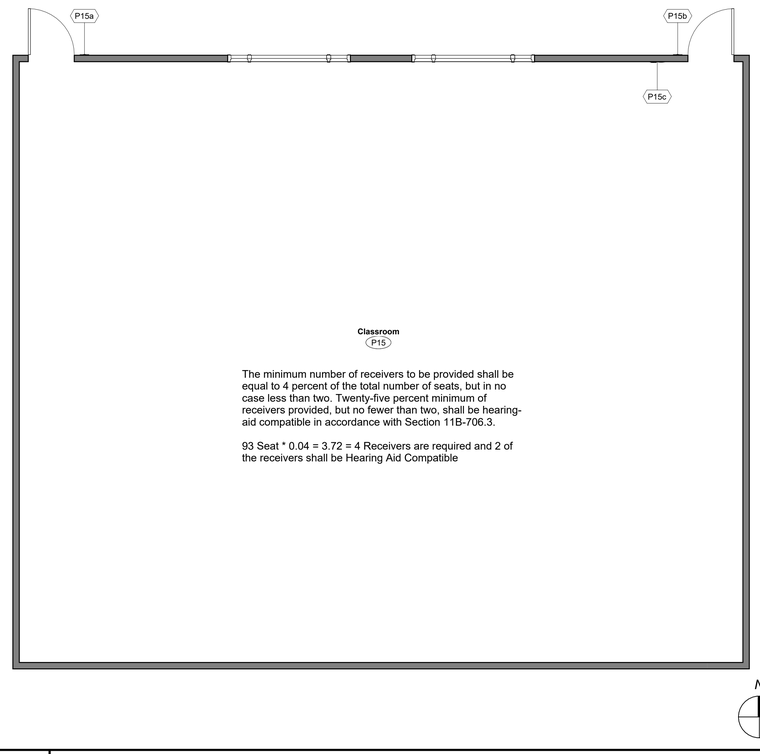
Signage Schedule Portable						
Building	Sign Mark	Sign Type	Sign Material	Mtg Height	Mtg Cond	Remarks
P	P15a	5a	Acrylic	4' - 11"	2	See Note 4
P	P15b	5a	Acrylic	4' - 11"	2	See Note 4
P	P15c	4a	Acrylic	4' - 11"	2	See Note 5

N11 — Signage Schedule

NO SCALE



The minimum number of receivers to be provided shall be equal to 4 percent of the total number of seats, but in no case less than two. Twenty-five percent minimum of receivers provided, but no fewer than two, shall be hearing-aid compatible in accordance with Section 11B-706.3.

93 Seat * 0.04 = 3.72 = 4 Receivers are required and 2 of the receivers shall be Hearing Aid Compatible

E11 — Signage Floor Plan

1/4" = 1'-0"

DSA File No.:
15-95

DSA Application No.:
03-122615

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DATE: 07/20/2023

Agency Approval

MOUNTING CONDITION

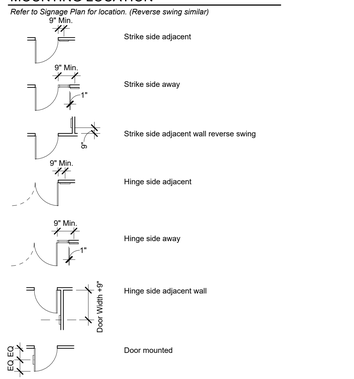
1. Metal Stud Framed Wall
2. Wood Stud Framed Wall
3. Concrete and Concrete Masonry
4. Glass
5. Door
6. See Plan

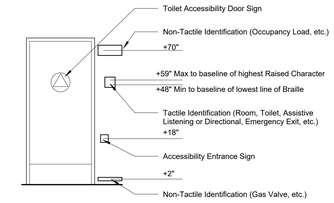
SIGN MATERIAL

A	=	Acrylic
EM	=	Exterior Metal.
IM	=	Interior Metal.
EP	=	Exterior Plastic.
IP	=	Interior Plastic.
D	=	Decal.

MOUNTING LOCATION

Refer to Signage Plan for location. (Reverse swing similar)





Typical Mounting Heights

Scale: N.T.S.

NOTES

1. Refer to Specification Section 10 14 00 IDENTIFYING DEVICES.
2. Refer to Plan for Mounting Location.
3. Verify Sign Copy with Owner prior to fabrication, "-" indicates a blank space
4. Sign copy shall say "Classroom X". Room number shall be determined by Owner.
5. IDENTIFYING DEVICES, For Height, Mounting Condition, and Sign Description, refer to Detail E1 X/A702

G18 — Signage Schedule Legend

No Scale

Earl Warren Junior High School Modernization Phase I

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING P
SIGNAGE PLAN AND SCHEDULE

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Architect

No.	Revision/Submission	Date

Revision

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Project Number: 2228	Checked By: MF	
Date: 3/20/2022	Reviewed By: MF	

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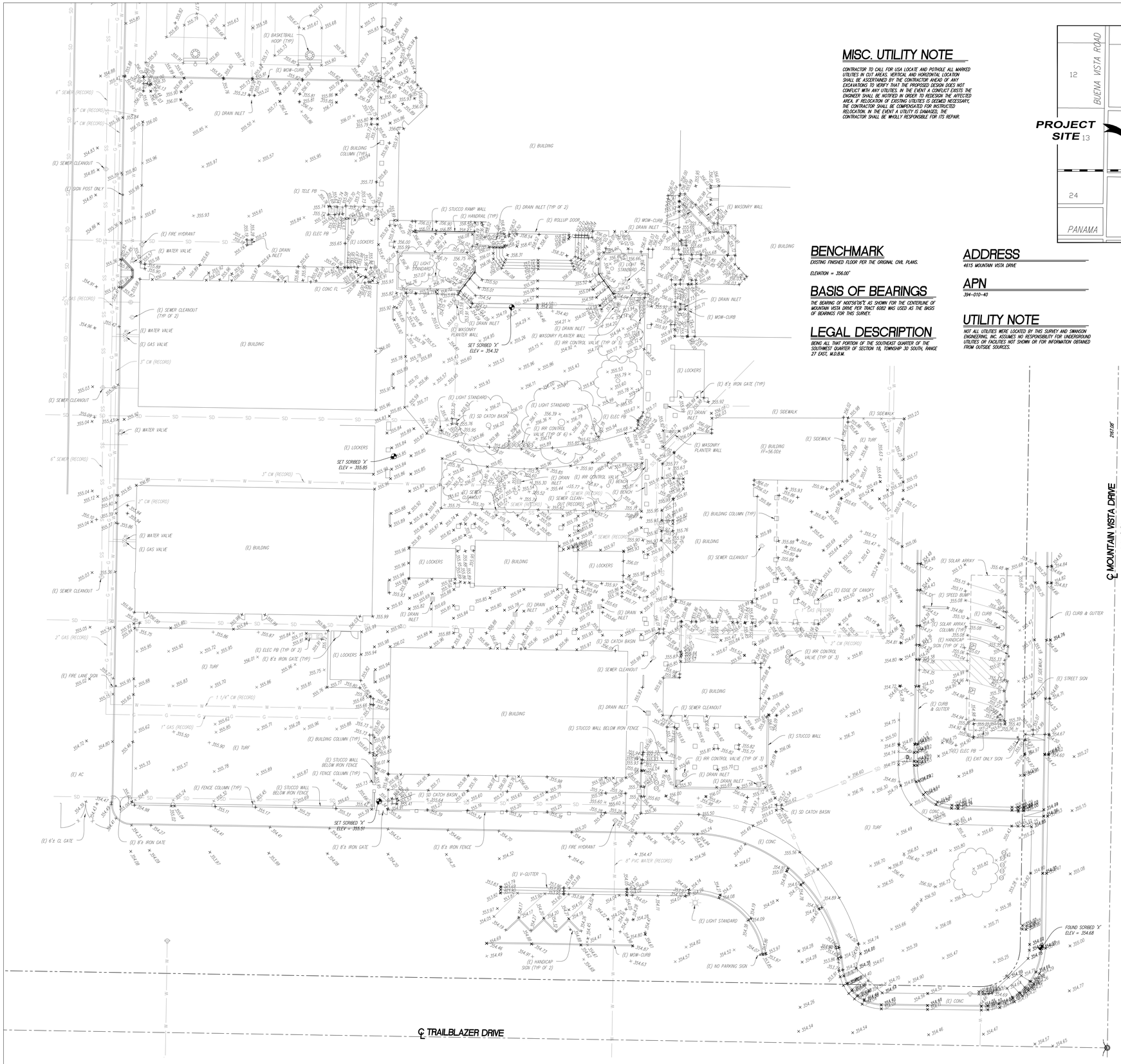


MISC. UTILITY NOTE

CONTRACTOR TO CALL FOR USA LOCATE AND POTHOLE ALL MARKED UTILITIES IN CUT AREAS, VERTICAL AND HORIZONTAL LOCATION SHALL BE ASCERTAINED BY THE CONTRACTOR AHEAD OF ANY EXCAVATIONS TO VERIFY THAT THE PROPOSED DESIGN DOES NOT CONFLICT WITH ANY UTILITIES. IN THE EVENT A CONFLICT EXISTS THE ENGINEER SHALL BE NOTIFIED IN ORDER TO REDESIGN THE AFFECTED AREA. IF RELOCATION OF EXISTING UTILITIES IS DEEMED NECESSARY, THE CONTRACTOR SHALL BE COMPENSATED FOR INSTRUCTED RELOCATION. IN THE EVENT A UTILITY IS DAMAGED, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ITS REPAIR.

BENCHMARK

EXISTING FINISHED FLOOR PER THE ORIGINAL CIVIL PLANS.

ELEVATION = 356.00'

BASIS OF BEARINGS

THE BEARING OF N00°56'06"E AS SHOWN FOR THE CENTERLINE OF MOUNTAIN VISTA DRIVE PER TRACT 6082 WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

LEGAL DESCRIPTION

BEING ALL THAT PORTION OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 18, TOWNSHIP 30 SOUTH, RANGE 27 EAST, M.D.B&M.

ADDRESS

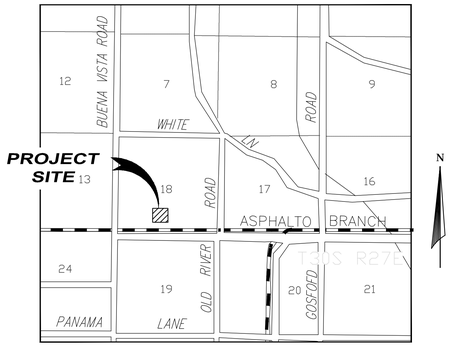
4615 MOUNTAIN VISTA DRIVE

APN

394-010-40

UTILITY NOTE

NOT ALL UTILITIES WERE LOCATED BY THIS SURVEY AND SWANSON ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR UNDERGROUND UTILITIES OR FACILITIES NOT SHOWN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES.



VICINITY MAP
N.T.S.

LEGEND:

ABBREVIATIONS:

(E)	EXISTING
TYP.	TYPICAL
FD.	FOUND
BK.	BOOK
PG.	PAGE
C.O.K.	COUNTY OF KERN
C.O.B.	CITY OF BAKERSFIELD
CONC	CONCRETE
A.C.	ASPHALT PAVEMENT
FG	FINISH GRADE
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
FL	FLOWLINE
FF	FINISHED FLOOR
FP	FINISHED PAD
TP	TOP OF PAVEMENT
GB	GRADE BREAK

	EXISTING FIRE HYDRANT
	EXISTING POWER POLE
	EXISTING STREET LIGHT
	FOUND MONUMENT
	EXISTING TRAFFIC SIGN
	NEW GATE VALVE IN CHRISTY VALVE BOX
SD	EXISTING STORM DRAIN LINE
FO	EXISTING FIBER OPTIC LINE
W	EXISTING WATER LINE
SS	EXISTING SEWER LINE
G	EXISTING GAS LINE
X	EXISTING FENCELINE
UGE	EXISTING ELECTRIC LINE
OHE	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING CURB & GUTTER
100.00	EXISTING GROUND CONTOUR LINE & ELEVATION

N

SCALE: 1" = 10'

10 5 0 10 20

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

SWANSON ENGINEERING, INC.
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2000 Oak Street, Suite 150 ~ Bakersfield, CA 93301
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JOB#- 22-037 JLS

REGISTERED PROFESSIONAL ENGINEER
ROBERT T. SWANSON
No. 43032
EXP. 3-31-24
CIVIL
STATE OF CALIFORNIA

Consultant

Earl Warren Junior High School Modernization Phase 1
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TOPOGRAPHIC SURVEY

Drawing

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ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT
REGISTERED PROFESSIONAL
No. C23724
Exp. 4-30-23
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

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Scale:
Project Number: 2228
Date: 6/2/2023

C0

Sheet: 1 of: 4

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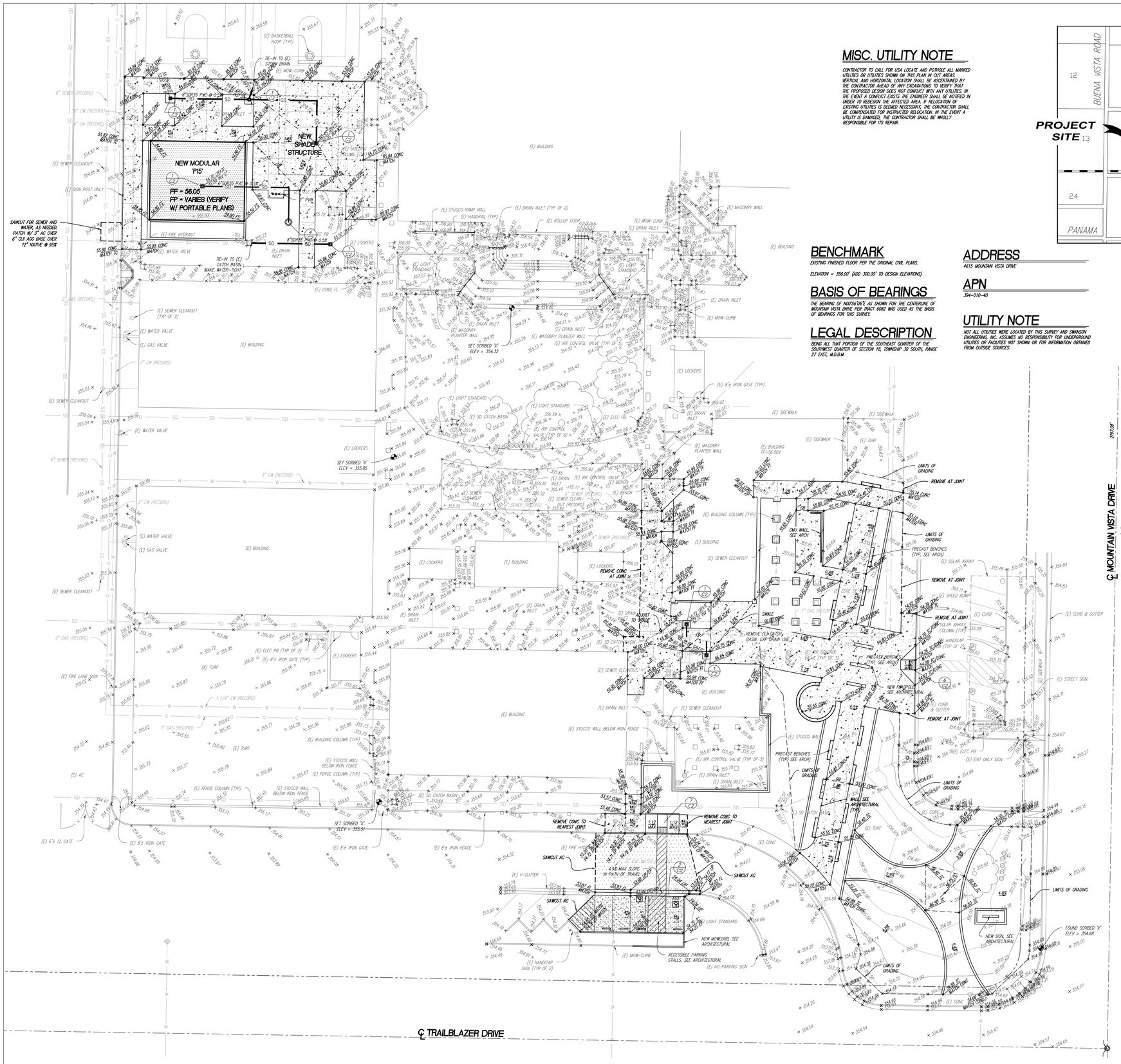


MISC. UTILITY NOTE

CONTRACTOR TO CALL FOR USA LOCATE AND POTHOLE ALL MARKED UTILITIES OR UTILITIES SHOWN ON THIS PLAN IN CUT AREAS. VERTICAL AND HORIZONTAL LOCATION SHALL BE ASCERTAINED BY THE CONTRACTOR AHEAD OF ANY EXCAVATIONS TO VERIFY THAT THE PROPOSED DESIGN DOES NOT CONFLICT WITH ANY UTILITIES. IN THE EVENT A CONFLICT EXISTS THE ENGINEER SHALL BE NOTIFIED IN ORDER TO REDESIGN THE AFFECTED AREA. IF RELOCATION OF EXISTING UTILITIES IS DEEMED NECESSARY, THE CONTRACTOR SHALL BE COMPENSATED FOR INSTRUCTED RELOCATION. IN THE EVENT A UTILITY IS DAMAGED, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ITS REPAIR.

BENCHMARK

EXISTING FINISHED FLOOR PER THE ORIGINAL CIVIL PLANS.

ELEVATION = 356.00' (ADD 300.00' TO DESIGN ELEVATIONS)

BASIS OF BEARINGS

THE BEARING OF N00°56'06"E AS SHOWN FOR THE CENTERLINE OF MOUNTAIN VISTA DRIVE PER TRACT 6082 WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

LEGAL DESCRIPTION

BEING ALL THAT PORTION OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 18, TOWNSHIP 30 SOUTH, RANGE 27 EAST, M.D.B.M.

ADDRESS

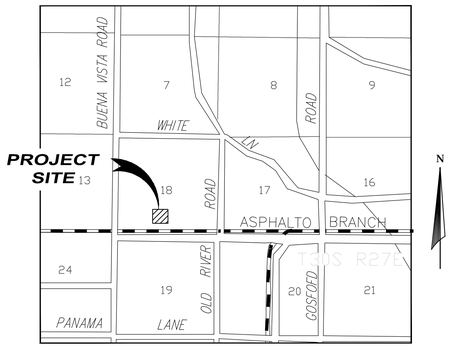
4615 MOUNTAIN VISTA DRIVE

APN

394-010-40

UTILITY NOTE

NOT ALL UTILITIES WERE LOCATED BY THIS SURVEY AND SWANSON ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR UNDERGROUND UTILITIES OR FACILITIES NOT SHOWN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES.



VICINITY MAP
N.T.S.

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- EXISTING FIRE HYDRANT
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- NEW GATE VALVE IN CHRISTY VALVE BOX
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- W — EXISTING WATER LINE
- SS — EXISTING SEWER LINE
- G — EXISTING GAS LINE
- X — EXISTING FENCELINE
- UGE — EXISTING ELECTRIC LINE
- OHE — EXISTING OVERHEAD ELECTRIC LINE
- EXISTING PROPERTY LINE
- EXISTING RIGHT-OF-WAY
- EXISTING CURB & GUTTER
- 100.00 — EXISTING GROUND CONTOUR LINE & ELEVATION
- SD — NEW STORM DRAIN LINE
- SS — NEW SANITARY SEWER LINE
- DW — NEW DOMESTIC WATER LINE
- 6" CONC W/ #4 REBAR AT 24" O.C./ 12" NATIVE @ 95%
- MIN. 4" CONC/ 12" NATIVE @ 90%. VERIFY WITH ARCHITECTURAL
- 2" AC/ 4" CLII AGG BASE/ 12" NATIVE @ 95%
- 3" AC/ 6" CLII AGG BASE/ 12" NATIVE @ 95%

UTILITY TRENCHING

ALL SITE UTILITIES SHALL CONFORM TO DETAIL 3, SHEET C2

EXISTING UTILITY BOXES

ADJUST TO GRADE ALL EXISTING UTILITY BOXES/VAULTS.

N

SCALE: 1" = 20'

20 10 0 20 40

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PLAN

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LICENSED ARCHITECT
MEGHAN C. FERGUSON
No. C23724
Exp. 4-30-23
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

Scale:
Project Number: 2228
Date: 6/2/2023

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C1

Sheet: 2 of: 4

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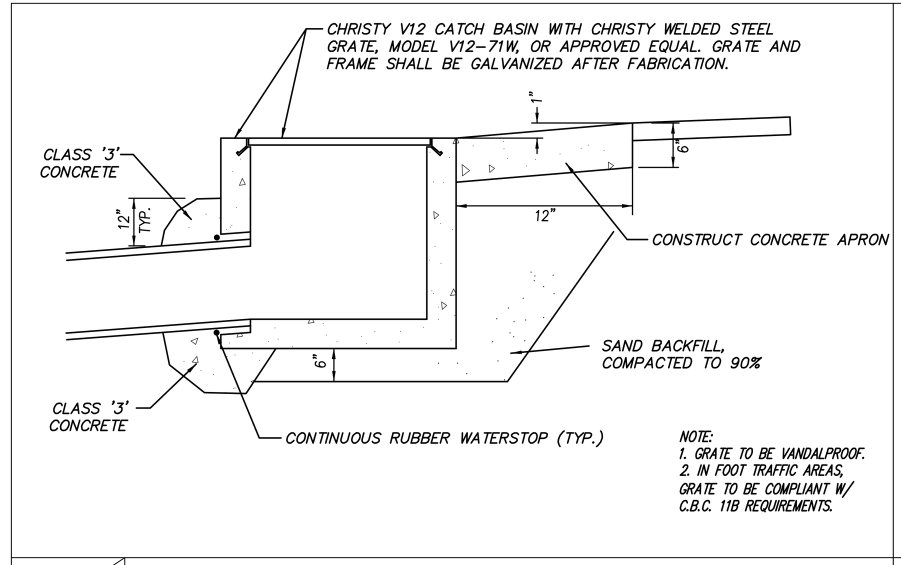
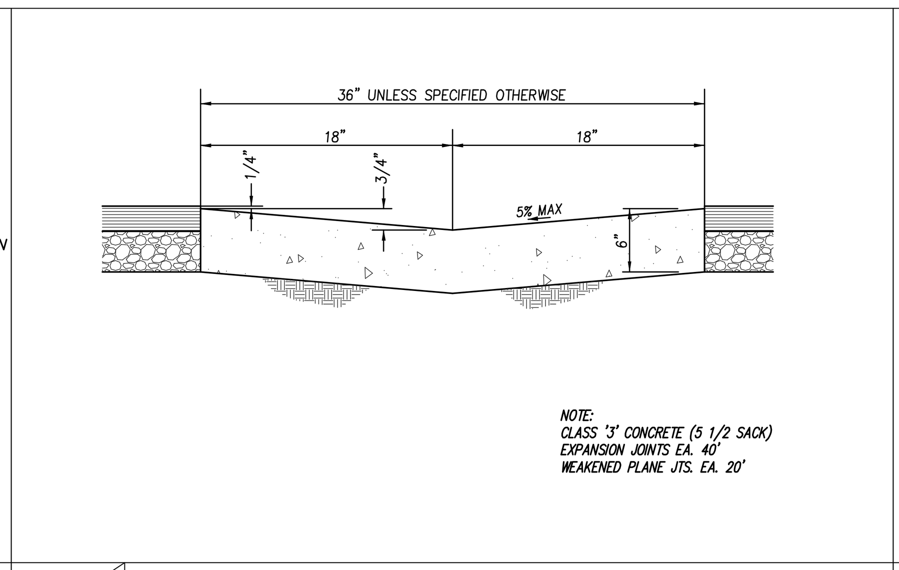
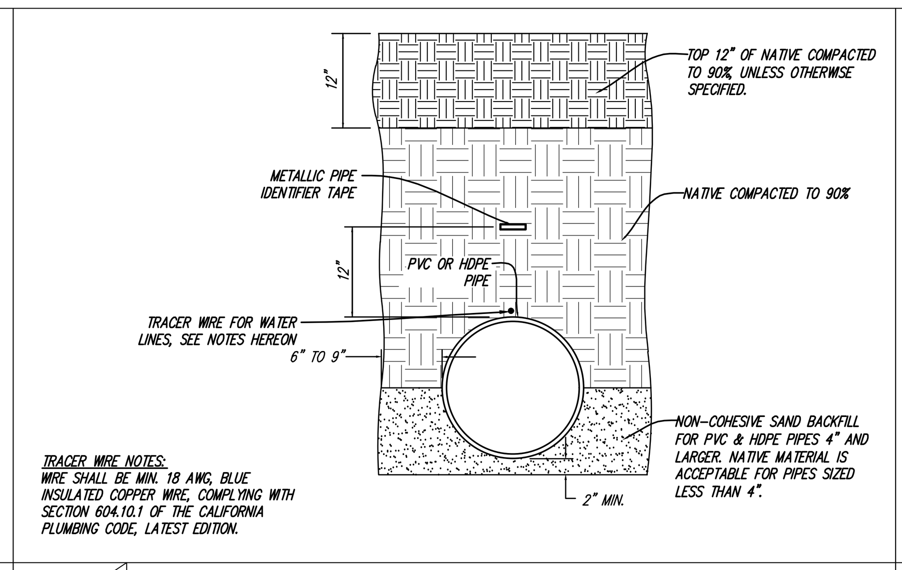


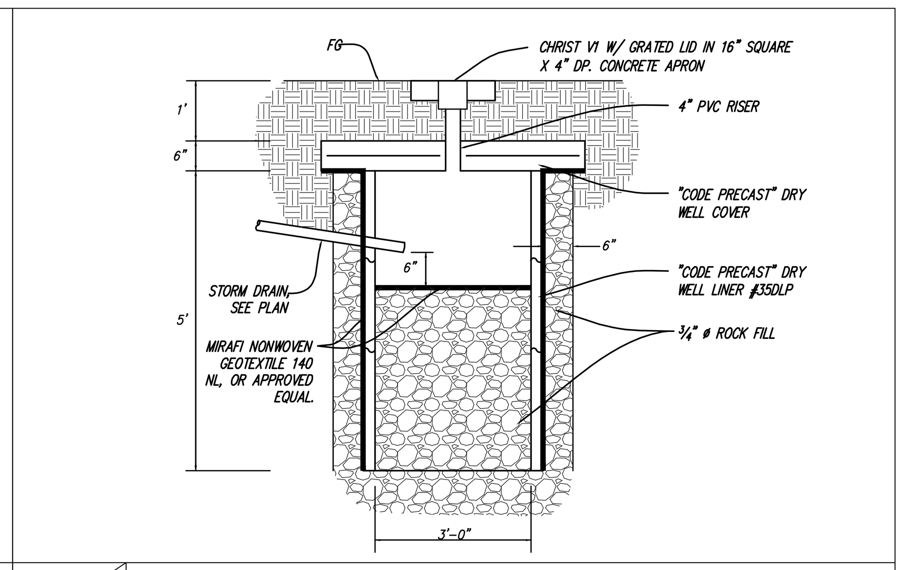
1 / C2 CHRISTY V12 CATCH BASIN



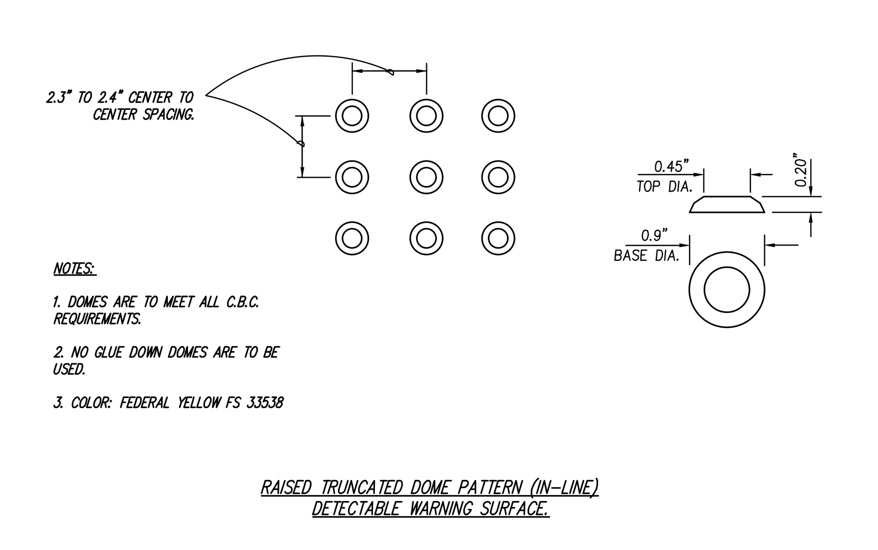
2 / C2 3' V-GUTTER



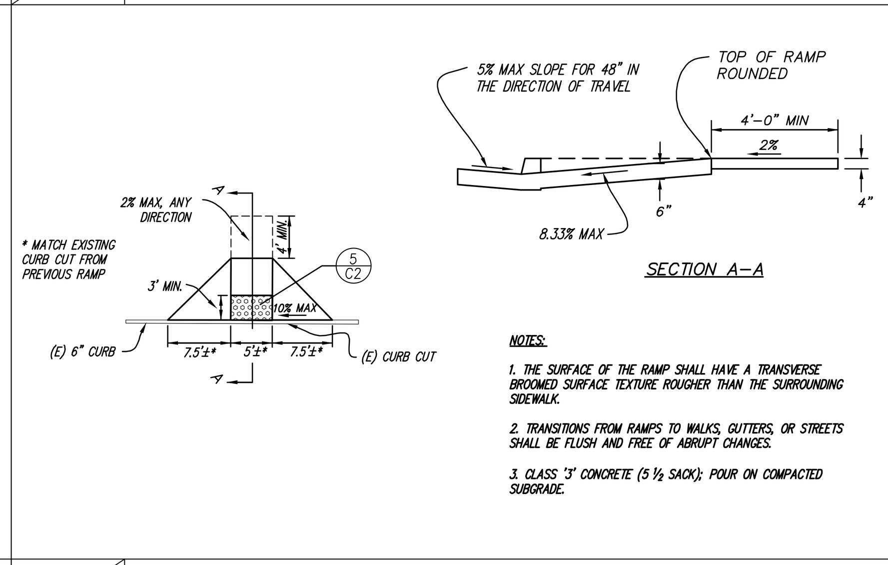
3 / C2 PVC/HDPE TRENCH DETAIL



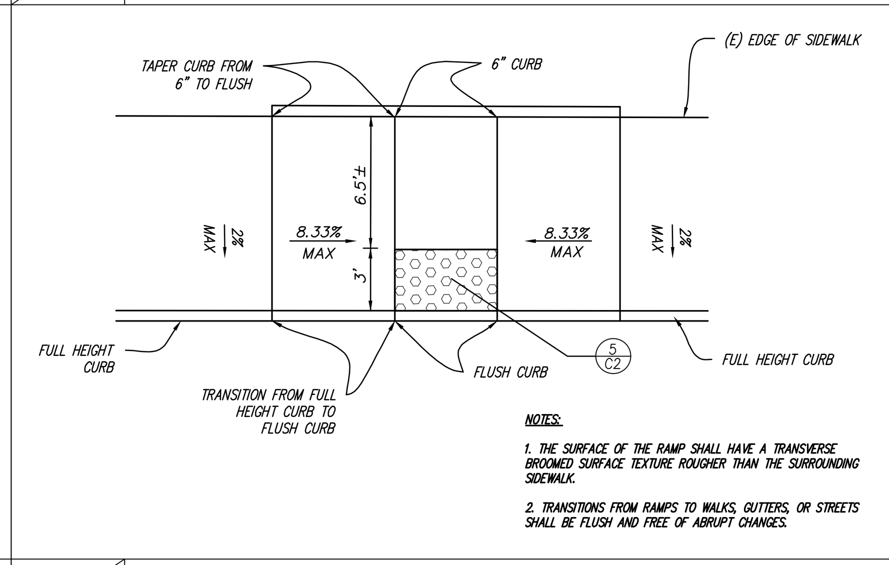
4 / C2 DRYWELL



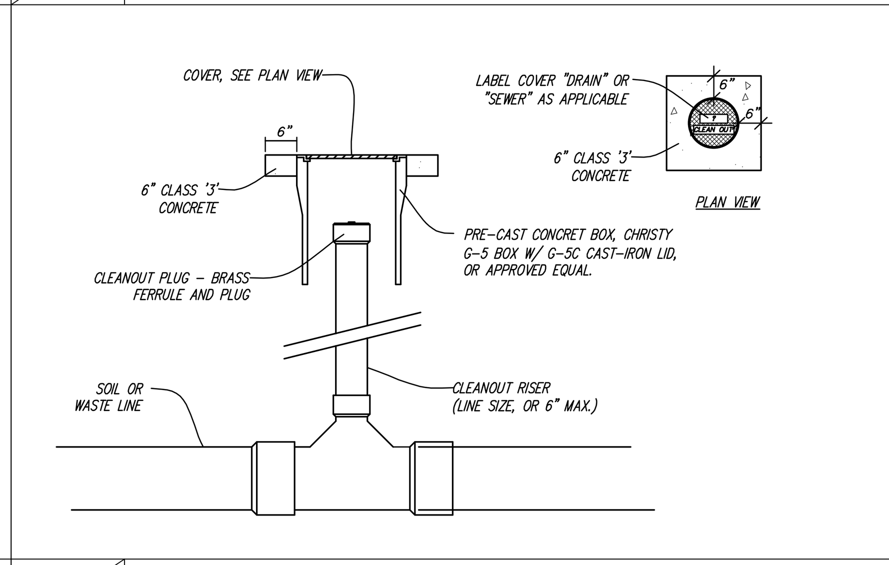
5 / C2 TRUNCATED DOMES



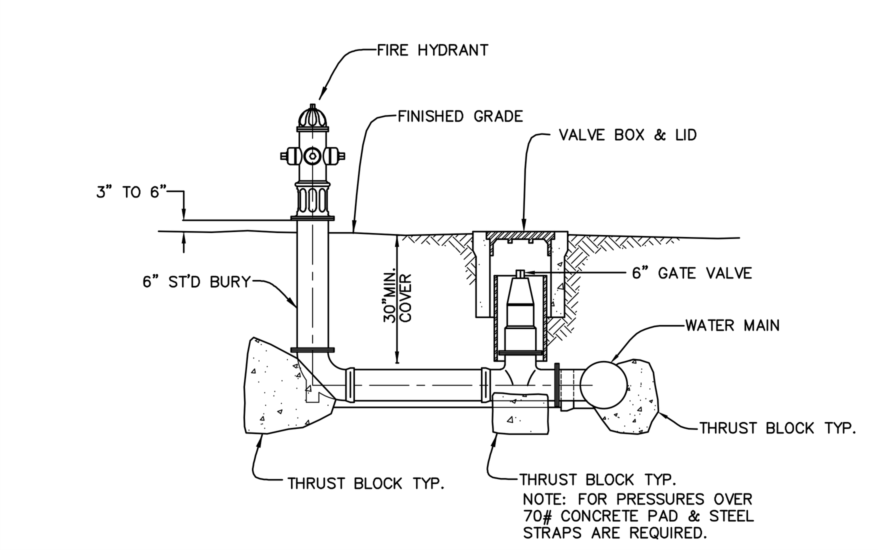
6 / C2 WHEELCHAIR RAMP



7 / C2 ACCESSIBLE DROP-DOWN CURB RAMP



8 / C2 2-WAY CLEANOUT TO GRADE



9 / C2 FIRE HYDRANT

GRADING NOTES

1. ALL GRADING SHALL CONFORM TO THE CITY OF BAKERSFIELD ORDINANCES AND STANDARDS PERTAINING THERETO (CALIFORNIA BUILDING CODE, 2019) AND SHALL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH CITY OF BAKERSFIELD ORDINANCES.

2. THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING AND CONSTRUCTION TO INSURE COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODE WITHIN HIS PURVIEW.

3. THE SOIL ENGINEER, DESIGN ENGINEER, AND BUILDING OFFICIAL SHALL BE NOTIFIED 48 HOURS PRIOR TO PLACING ANY MATERIAL.

4. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, ARCHITECT, AND THE ENGINEER HARMLESS FROM ANY LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, OR THE ENGINEER.

5. THE GRADING CONTRACTOR SHALL CONTACT ALL COMPANIES WITH UNDERGROUND FACILITIES PRIOR TO BEGINNING CONSTRUCTION AND VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND FACILITIES, INCLUDING TELEPHONE, ELECTRIC, WATER, SEWER, OIL AND GAS LINES. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR BURIED LINES NOT INDICATED ON THE PLAN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES. (USA – 811)

6. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR GRADING ALL AREAS TO + OR – 0.10 FOOT. IF AN AREA SHOULD BE FOUND TO BE MORE THAN 0.10 FOOT OUT OF TOLERANCE AFTER COMPACTING AND COMPLETION OF GRADING, THE CONTRACTOR SHALL RETURN AND CORRECT THE GRADING AT NO COST TO THE OWNER.

7. THE CONTRACTOR SHALL WATER AS REQUIRED DURING THE GRADING OPERATIONS TO PREVENT THE OCCURRENCE OF A DUST NUISANCE AND SHALL PROTECT CURBS AND OTHER OBJECTS WHICH ARE TO REMAIN. DUST CONTROL SHALL CONFORM TO THE SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT REGULATIONS.

8. EXCAVATION – EXCAVATION SHALL CONSIST OF ALL EXCAVATION INVOLVED IN GRADING THE PROJECT AS SHOWN ON THE PLANS. THIS SHALL INCLUDE EXPORTING MATERIAL TO AN OFF-SITE LOCATION, AS REQUIRED.

9. EMBANKMENTS – EMBANKMENT CONSTRUCTION SHALL CONSIST OF CONSTRUCTING EMBANKMENTS, INCLUDING THE PREPARATION OF AREAS WHERE THEY ARE TO BE PLACED, THE CONSTRUCTION OF DIKES WITHIN OR OUTSIDE THE CONSTRUCTION AREA, THE PLACING AND COMPACTING OF APPROVED MATERIAL WITHIN THE CONSTRUCTION AREA WHERE UNSUITABLE MATERIAL HAS BEEN REMOVED, AND THE PLACING AND COMPACTING OF EMBANKMENT MATERIAL IN HOLES, PITS, AND DEPRESSIONS. IT SHOULD ALSO CONSIST OF PREPARING SUB-GRADE AT THE GRADING PLANE, CONFORMING TO THE GRADE TOLERANCE, DOING NECESSARY PLOWING OR BENCHING, IMPORTING OR EXPORTING, PLACING AND COMPACTING MATERIAL TO THE LINE AND GRADES SHOWN ON THE PLANS. ALL EMBANKMENT CONSTRUCTION SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICE.

10. THE WORK EMBRACED HEREIN SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION DATED JULY 2018 (UNLESS OTHERWISE SPECIFIED), INSOFAR AS THE SAME MAY APPLY IN ACCORDANCE WITH THE NOTES HERON. IN CASE OF CONFLICT WITH THE STANDARD SPECIFICATIONS AND ANY NOTES HEREON, THE NOTES HEREON SHALL TAKE PRECEDENCE OVER AND BE USED IN LIEU OF SUCH CONFLICTING PORTIONS. SAID SPECIFICATIONS SHALL APPLY BUT NOT BE LIMITED TO THE FOLLOWING:

A) ALL CONCRETE SHALL BE CLASS "3" USING TYPE V CEMENT AS IN ACCORDANCE WITH SECTION 90 AND SHALL HAVE AT LEAST 2500 PSI COMPRESSIVE STRENGTH AT 28 DAYS, PER CALTRANS STANDARD SPECIFICATIONS (2006) UNLESS OTHERWISE SPECIFIED.

B) ASPHALTIC CONCRETE SHALL BE TYPE "B", 1/2" MAXIMUM, MEDIUM GRADED, AND INTIMATELY MIXED WITH 5–6.5% ASPHALT PER CALTRANS STANDARD SPECIFICATIONS (2006). NO R.A.P. (RECLAIMED ASPHALT PAVEMENT) SHALL BE USED. ASPHALT SHALL BE PERFORMANCE GRADE PG64–10.

11. SWANSON ENGINEERING SHALL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE APPROVED, IN WRITING, BY SWANSON ENGINEERING.

12. NOT USED

13. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR SHALL POTHOLE ALL UTILITIES THAT WILL BE AFFECTED BY THIS CONSTRUCTION TO DETERMINE IF ANY UTILITY CONFLICTS EXIST. ANY UTILITY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT DESIGN CHANGES CAN BE MADE PRIOR TO THE START OF CONSTRUCTION.

14. UPON COMPLETION OF GRADING AND BEFORE THE START OF CONSTRUCTION, A FINAL SOILS REPORT SHALL BE PREPARED BY THE SOIL ENGINEER.

15. THE SOIL ENGINEER SHALL REVIEW ALL EXCAVATIONS PRIOR TO BACKFILLING AND SHALL BE NOTIFIED OF ANY ITEM ENCOUNTERED DURING THE GRADING OPERATIONS THAT MIGHT AFFECT FOUNDATION STABILITY SO THAT RECOMMENDATIONS CAN BE MADE BY THE SOIL ENGINEER.

16. CUT AND FILL SLOPES NEARER THAN FIVE FEET FROM THE BUILDING FOUNDATIONS SHALL NOT BE STEEPER THAN 5:1. CUT AND FILL SLOPES SHALL NOT BE STEEPER THAN 2:1 FOR SLOPES FARTHER THAN FIVE FEET FROM FOOTING LINES.

17. ALL SLOPES GREATER THAN THREE FEET IN VERTICAL HEIGHT SHALL BE PREPARED AND MAINTAINED TO PREVENT EROSION.

18. IMPORTED FILL MATERIAL SHOULD CONSIST OF ESSENTIALLY GRANULAR, SILTY SANDS WITH LOW EXPANSION POTENTIAL AND FREE OF GRASSES, WEEDS, ROCKS LARGER THAN TWO INCHES IN DIAMETER, DEBRIS, AND SOLUBLE SULFATES IN EXCESS OF 200 PARTS PER MILLION. IMPORTED FILL SHOULD CONTAIN SUFFICIENT SILT AND CLAY BINDER TO RENDER THEM STABLE IN FOOTING TRENCHES AND CAPABLE OF MAINTAINING SPECIFIED ELEVATION TOLERANCES DURING PAVING OPERATIONS. ANY EARTHEN MATERIALS PROPOSED TO BE BROUGHT ONTO SCHOOL SITES ARE SUBJECT TO TESTING TO VERIFY THEY ARE IN COMPLIANCE WITH DTSC STANDARDS. OWNER SHALL DETERMINE IF TESTING OF MATERIALS IS REQUIRED PRIOR TO ANY MATERIAL BEING BROUGHT ONTO THE SITE. TESTING OF MATERIALS MAY TAKE UP TO TWO WEEKS TO VERIFY COMPLIANCE WITH DTSC STANDARDS.

IMPORTED SOILS SHOULD ALSO MEET THE FOLLOWING CRITERIA:

A) MAXIMUM % PASSING #200 SIEVE 50
B) MAXIMUM LIQUID LIMIT 40
C) MAXIMUM PLASTICITY INDEX 14
D) MINIMUM R–VALUE 50
E) MAXIMUM EXPANSION INDEX 20

19. CLEARING AND GRUBBING – REMOVE ALL DEBRIS, SUCH AS METAL, TRASH, ROCKS LARGER THAN TWO INCHES IN DIAMETER, BROKEN CONCRETE, VEGETATION, OTHER BIODEGRADABLE SUBSTANCES, AND UNSUITABLE SOIL FROM AREAS TO BE GRADED. UNSUITABLE SOIL IS SOIL THAT, IN THE OPINION OF THE BUILDING OFFICIAL, SOIL ENGINEER, OR CIVIL ENGINEER, IS NOT COMPETENT TO SUPPORT OTHER SOIL OR STRUCTURES, OR TO SATISFACTORILY PERFORM ANY OTHER FUNCTIONS FOR WHICH THE SOIL IS INTENDED.

20. AREAS TO RECEIVE FILL SHALL BE SCARIFIED SIX INCHES, OR AS RECOMMENDED IN THE SOIL REPORT, WHICHEVER IS GREATER, UNTIL THE SURFACE IS FREE FROM RUTS, HUMMOCKS OR OTHER UNEVEN FEATURES WHICH WOULD TEND TO PREVENT UNIFORM COMPACTION BY THE EQUIPMENT TO BE USED. MOISTEN AND COMPACT TO AT LEAST 90% OF THE MAXIMUM DENSITY PER ASTM D1557 UNLESS OTHERWISE SPECIFIED.

21. ENGINEERED FILL MATERIALS SHOULD BE PLACED IN THIN LAYERS (LESS THAN EIGHT INCHES UNCOMPACTED THICKNESS), BROUGHT TO NEAR THE OPTIMUM MOISTURE CONTENT OR TO A MOISTURE CONTENT COMMENSURATE WITH EFFECTIVE COMPACTION AND SOIL STABILITY, AND COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINABLE BY ASTM TEST METHOD D1557.

22. THE GRADING PLAN DOES NOT NECESSARILY INDICATE A BALANCED SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING MATERIALS FROM AN OFF-SITE LOCATION OR EXPORTING EXCESS MATERIAL TO AN OFF-SITE LOCATION, AS NEEDED.

23. CONTRACTOR TO VERIFY DIMENSIONS AND ELEVATIONS OF EXISTING IMPROVEMENTS IN THE FIELD BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES THAT WILL AFFECT TIE-INS TO EXISTING IMPROVEMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.

24. BUILDING PAD PREPARATION: EXCAVATE EARTH MATERIAL TO A MINIMUM DEPTH OF ONE (1) FOOT BELOW THE LOWEST GRADE OR ONE (1) FOOT BELOW THE LOWEST FOUNDATION IN EACH OF THE PROPOSED BUILDING AREAS. THE BOTTOM OF THE EXCAVATION SHALL BE REVIEWED BY THE SOIL ENGINEER OR HIS REPRESENTATIVE PRIOR TO ANY BACKFILL OPERATIONS. THE TOP TWELVE INCHES OF MATERIALS EXPOSED AT THE BOTTOM OF THE EXCAVATION SHALL BE SCARIFIED AND COMPACTED TO A MINIMUM OF 90 PERCENT OF ASTM D1557. MOISTEN IMPORTED SOILS TO NEAR THE OPTIMUM MOISTURE OR TO A MOISTURE CONTENT CONSISTENT WITH EFFECTIVE COMPACTION AND SOILS STABILITY. COMPACT MOISTENED SOILS TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINED BY ASTM TEST METHOD D1557. WORK TO LINES AT LEAST FIVE (5) FEET BEYOND THE OUTSIDE EDGES OF EXTERIOR FOOTINGS AND TWO FEET BEYOND PAVEMENT EDGES.

25. PAVEMENT AND FLATWORK AREA PREPARATION: GROUND SURFACES TO RECEIVE CONCRETE DRIVEWAY AND BITUMINOUS PAVEMENTS SHOULD BE SCARIFIED AND COMPACTED TO A MINIMUM DEPTH OF 12 INCHES BELOW THE GRADING PLANE IN CUT AREAS OR TO 12 INCHES IN AREAS TO RECEIVE FILL. ENGINEERED FILL PLACED IN PROPOSED PAVEMENT AREAS SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY AS OBTAINED BY ASTM TEST METHOD D1557, AND SHOULD EXTEND TO A MINIMUM OF TWO FEET BEYOND THE OUTSIDE EDGES OF PAVEMENT.

26. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION. CONTRACTORS SHALL OBTAIN APPLICABLE O.S.H.A. PERMITS WHEN WORKMEN MUST ENTER TRENCHES GREATER THAN FIVE FEET.

27. MAXIMUM SLOPE RATIO FROM BACK OF SIDEWALK TO FACE OF WALL OR STRUCTURE SHALL BE 4:1, EXCEPT FOR TWO FEET BEHIND THE SIDEWALK WHERE THE MAXIMUM SLOPE SHALL BE 2% ALTERNATIVELY, THE CITY ENGINEER MAY APPROVE CURBING BEHIND THE SIDEWALK OR OTHER METHOD TO PREVENT EROSION ONTO THE SIDEWALK.

28. AN OPEN STREET PERMIT SHALL BE OBTAINED FROM THE CITY OF BAKERSFIELD PUBLIC WORKS DEPARTMENT FOR ANY WORK PERFORMED WITHIN EXISTING ACCEPTED STREET RIGHT OF WAY. UNLESS SECURED BY A SUBDIVISION AGREEMENT, SECURITY BASED ON AN APPROVED ENGINEER'S ESTIMATE FOR THE WORK PERFORMED WITHIN RIGHT OF WAY AND INSURANCE AS REQUIRED SHALL BE PROVIDED PRIOR TO ISSUANCE OF A PERMIT.

29. IF THE PROJECT IS SUBJECT TO THE PROVISIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES), A "NOTICE OF INTENT" (NOI) TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY (WQ ORDER NO. 2009–009–DWQ AS AMENDED BY ORDER 2010–0014–DWQ AND ORDER 2012–0006–DWQ) MUST BE FILED WITH STATE WATER RESOURCES CONTROL BOARD IN SACRAMENTO BEFORE THE BEGINNING OF ANY CONSTRUCTION ACTIVITY. COMPLIANCE WITH THE GENERAL PERMIT REQUIRES THAT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) BE PREPARED, CONTINUOUSLY CARRIED OUT, AND ALWAYS BE AVAILABLE FOR PUBLIC INSPECTION DURING NORMAL CONSTRUCTION HOURS.

General Notes

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LICENSED ARCHITECT
MICHAEL K. FENNACY
No. C23724
Ren. 4-30-25
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Architect

No.	Revision/Submission	Date

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Date: 6/2/2023	Reviewed By: MF	Sheet: 3 of: 4

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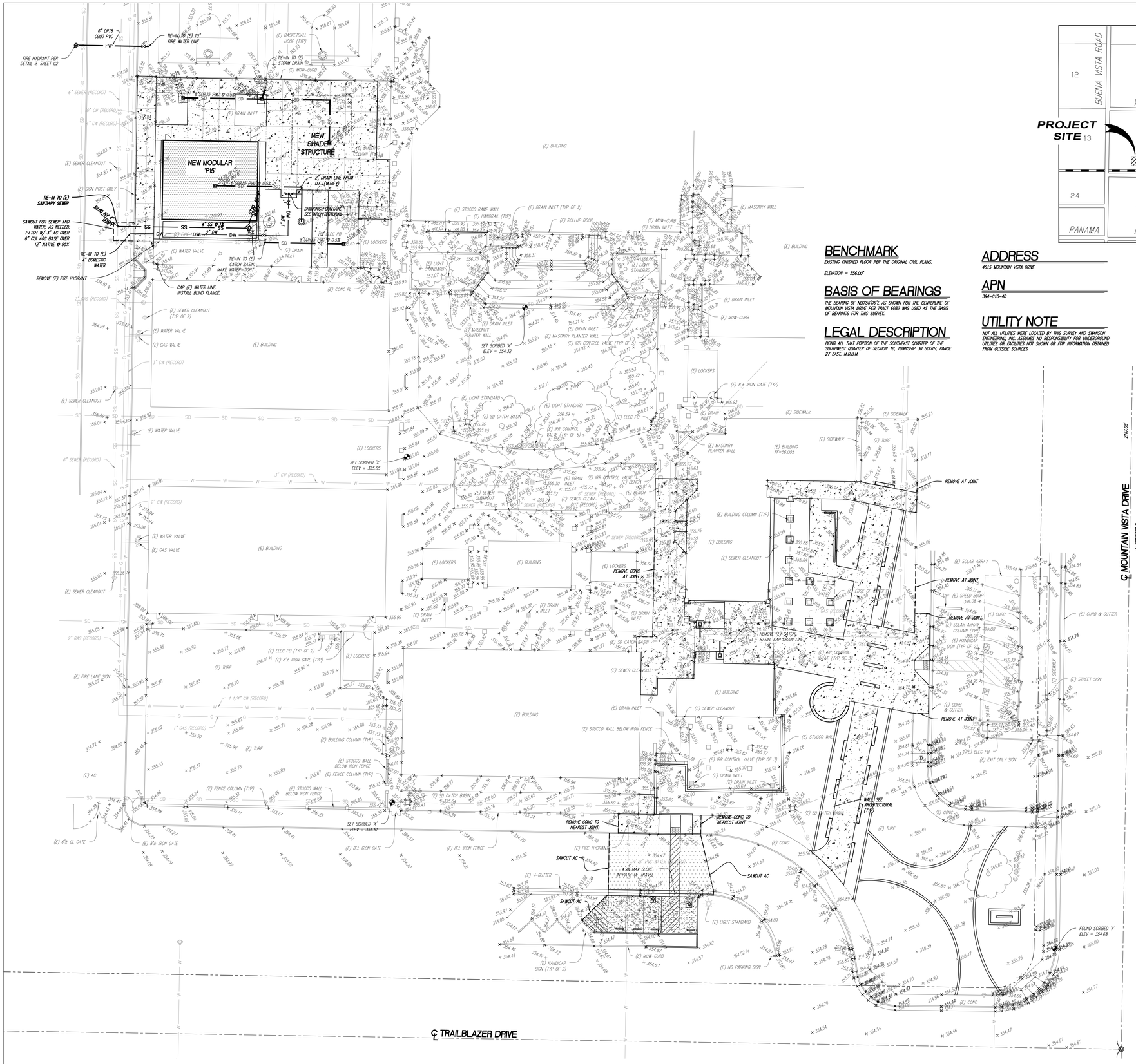

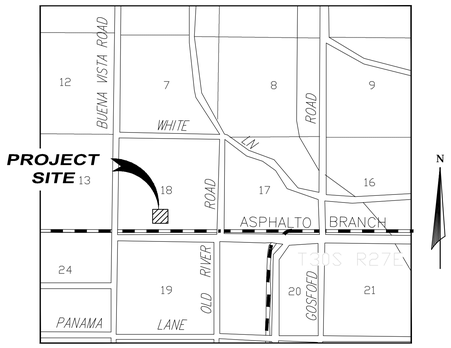

VICINITY MAP
N.T.S.

BENCHMARK

EXISTING FINISHED FLOOR PER THE ORIGINAL CIVIL PLANS.

ELEVATION = 356.00'

BASIS OF BEARINGS

THE BEARING OF N00°56'06"E AS SHOWN FOR THE CENTERLINE OF MOUNTAIN VISTA DRIVE PER TRACT 6282 WAS USED AS THE BASIS OF BEARINGS FOR THIS SURVEY.

LEGAL DESCRIPTION

BEING ALL THAT PORTION OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 18, TOWNSHIP 30 SOUTH, RANGE 27 EAST, M.D.B.M.

ADDRESS

4615 MOUNTAIN VISTA DRIVE

APN

394-010-40

UTILITY NOTE

NOT ALL UTILITIES WERE LOCATED BY THIS SURVEY AND SWANSON ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR UNDERGROUND UTILITIES OR FACILITIES NOT SHOWN OR FOR INFORMATION OBTAINED FROM OUTSIDE SOURCES.

ABBREVIATIONS:

(E)	EXISTING
TYP.	TYPICAL
FD.	FOUND
BK.	BOOK
PG.	PAGE
C.O.K.	COUNTY OF KERN
C.O.B.	CITY OF BAKERSFIELD
CONC	CONCRETE
A.C.	ASPHALT PAVEMENT
FG	FINISH GRADE
EP	EDGE OF PAVEMENT
TC	TOP OF CURB
FL	FLOWLINE
FF	FINISHED FLOOR
FP	FINISHED PAD
TP	TOP OF PAVEMENT
GB	GRADE BREAK

LEGEND:

	EXISTING FIRE HYDRANT
	EXISTING POWER POLE
	EXISTING STREET LIGHT
	FOUND MONUMENT
	EXISTING TRAFFIC SIGN
	NEW GATE VALVE IN CHRISTY VALVE BOX
SD	EXISTING STORM DRAIN LINE
FO	EXISTING FIBER OPTIC LINE
W	EXISTING WATER LINE
SS	EXISTING SEWER LINE
G	EXISTING GAS LINE
X	EXISTING FENCELINE
UGE	EXISTING ELECTRIC LINE
OHE	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING PROPERTY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING CURB & GUTTER
100.00	EXISTING GROUND CONTOUR LINE & ELEVATION
SD	NEW STORM DRAIN LINE
SS	NEW SANITARY SEWER LINE
DW	NEW DOMESTIC WATER LINE

EXISTING UTILITY BOXES

ADJUST TO GRADE ALL EXISTING UTILITY BOXES/VAULTS.

UTILITY TRENCHING

ALL SITE UTILITIES SHALL CONFORM TO DETAIL 3, SHEET C2

MISC. UTILITY NOTE

CONTRACTOR TO CALL FOR USA LOCATE AND POTHOLE ALL MARKED UTILITIES IN CUT AREAS. VERTICAL AND HORIZONTAL LOCATION SHALL BE ASSERTAINED BY THE CONTRACTOR AHEAD OF ANY EXCAVATIONS TO VERIFY THAT THE PROPOSED DESIGN DOES NOT CONFLICT WITH ANY UTILITIES. IN THE EVENT A CONFLICT EXISTS THE ENGINEER SHALL BE NOTIFIED IN ORDER TO REDESIGN THE AFFECTED AREA. IF RELOCATION OF EXISTING UTILITIES IS DEEMED NECESSARY, THE CONTRACTOR SHALL BE COMPENSATED FOR INSTRUCTED RELOCATION. IN THE EVENT A UTILITY IS DAMAGED, THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ITS REPAIR.

N

SCALE: 1" = 20'

20 10 0 20 40

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

SWANSON ENGINEERING, INC.
© 2022
2000 Oak Street, Suite 150 ~ Bakersfield, CA 93301
p:(661) 831-4919; f:(661) 873-4777
JOB# 22-037 JLS

REGISTERED PROFESSIONAL ENGINEER
ROBERT T. SWANSON
No. 43032
EXP. 3-31-24
Civil
STATE OF CALIFORNIA

Consultant

Earl Warren Junior High School Modernization
Phase 1
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE UTILITY PLAN

Drawing

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LICENSED ARCHITECT
MEGHAN K. FITZGERALD
No. C23724
Exp. 4-30-23
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: MF
Drawn By: KX
Checked By: MF
Reviewed By: MF

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Scale:
Project Number: 2228
Date: 6/2/2023

C3

Sheet: 4 of: 4

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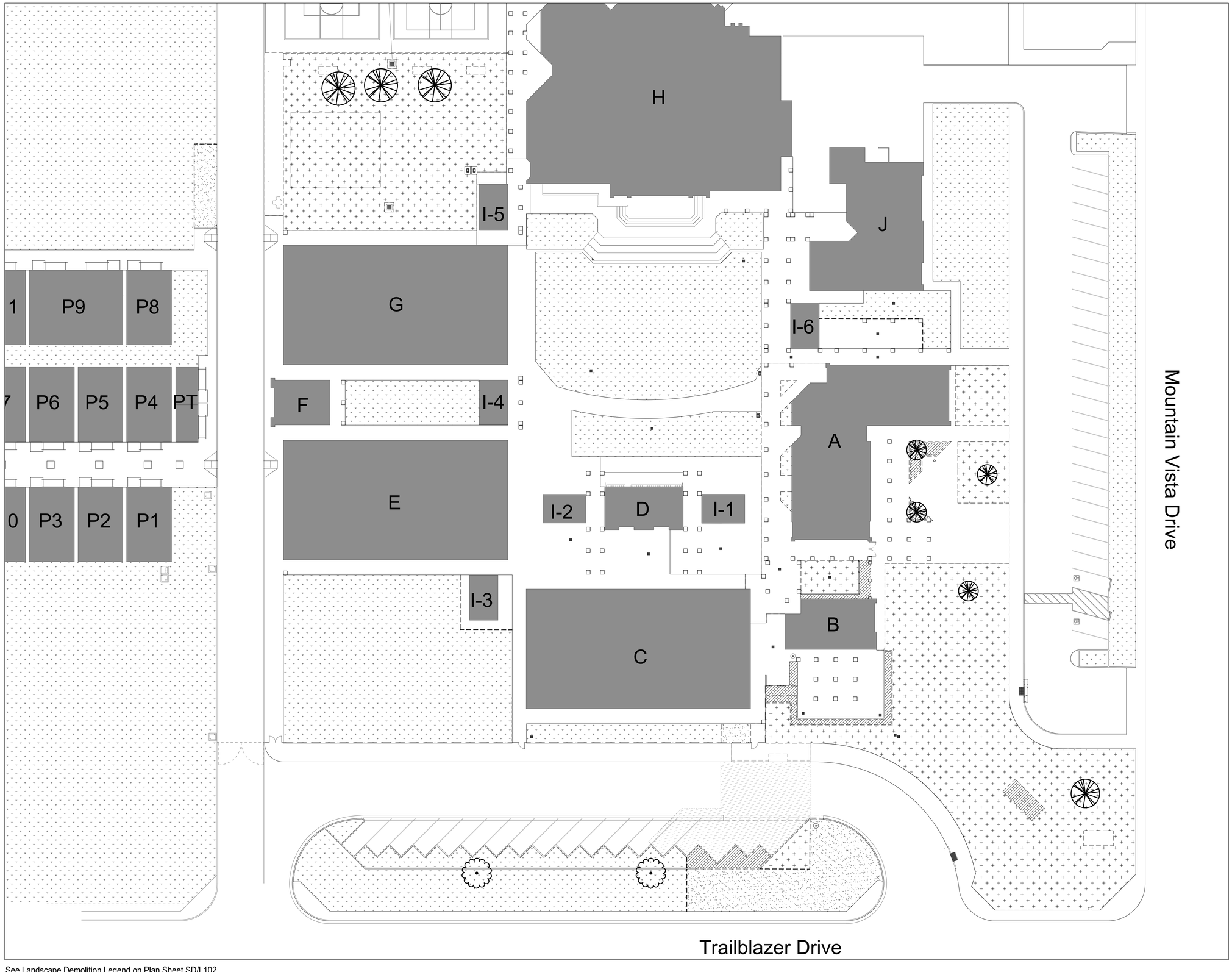

See Landscape Demolition Legend on Plan Sheet SD/L102

N

L1	Landscape Demolition Plan
1" = 20'-0"	Partial Site Plan

DSA File No.:
15-95

DSA Application No.:
03-122615

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DATE: 07/20/2023

Agency Approval

General Notes

LICENSED LANDSCAPE ARCHITECT
DAVID B. BIGLER
LA # 3887
31 JULY 24
RENEWAL DATE
STATE OF CALIFORNIA

Landscape Architect #3887
DB associates

David Bigler Associates
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Consultant

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Modernization Phase 1
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

LANDSCAPE DEMOLITION PLAN
PARTIAL SITE PLAN

Drawing

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LICENSED ARCHITECT
MICHAEL K. FERRARO
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: DB	Copyright 2022 Darden Architects
Scale: As Indicated	Drawn By: SV	SD/L100
Project Number: 2228	Checked By: DB	
Date: 05/25/23	Reviewed By: DB	

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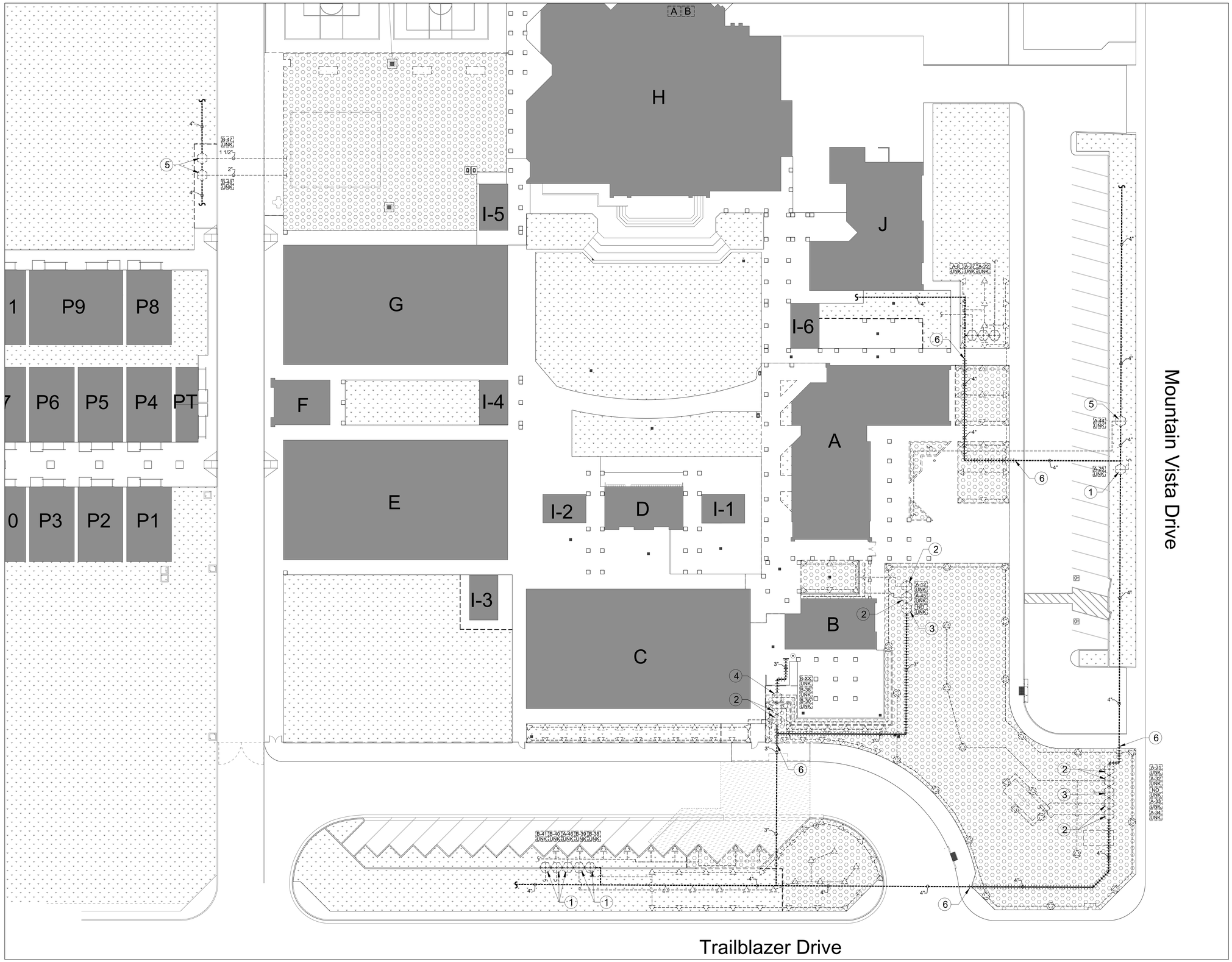

See Landscape Irrigation Demolition Legend on Plan Sheet SD/L102

N

L2	Irrigation Demolition Plan
1" = 20'-0"	Partial Site Plan

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15-95

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IRRIGATION DEMOLITION KEYNOTES

1. EXISTING REMOTE CONTROL VALVE FOR SPRINKLERS TO REMAIN & PROTECT AND MAINTAIN EXISTING CONTROLLER ASSIGNMENT. CONTRACTOR TO FIELD VERIFY.
2. EXISTING REMOTE CONTROL VALVE TO BE REMOVED AND REPLACED. INSTALL NEW REMOTE CONTROL VALVE ON THE NEW IRRIGATION MAINLINE PIPE AND CONNECT TO THE NEW SPRINKLERS. SEE IRRIGATION PLAN ON PLAN SHEET L202 FOR ADDITIONAL INFORMATION. SPLICE AND EXTEND THE EXISTING LOW VOLTAGE CONTROL WIRING TO NEW REMOTE CONTROL VALVE AS REQUIRED. ALL LOW VOLTAGE CONTROL WIRE SPLICES ARE TO BE MADE WITH 3M DBY WATERPROOF SPLICE KITS AND LOCATED IN VALVE BOXES. DELIVER USABLE PARTS AND VALVE BOX TO DISTRICT. DISPOSE OF ALL REMOVED MATERIALS NOT WANTED BY DISTRICT OFF SITE AT NO ADDITIONAL COST TO DISTRICT. CONTRACTOR TO FIELD VERIFY.
3. EXISTING IRRIGATION REMOTE CONTROL VALVE TO BE REMOVED. CONTRACTOR IS TO FIELD LOCATE VALVE. REMOVE VALVE & MANIFOLD AND CAP MAINLINE PIPE. DELIVER USABLE PARTS AND VALVE BOX TO DISTRICT. DISPOSE OF ALL REMOVED MATERIALS NOT WANTED BY DISTRICT OFF SITE AT NO ADDITIONAL COST TO DISTRICT. CONTRACTOR TO FIELD LOCATE. CONTRACTOR IS TO SECURE EXISTING LOW VOLTAGE CONTROL WIRING WITH WATERPROOF WIRE SPLICE KITS AND INSTALL A 10" ROUND CONCRETE VALVE BOX OVER WIRING FOR FUTURE ACCESS. CONTRACTOR TO FIELD VERIFY.
4. EXISTING IRRIGATION CONTROL VALVE WITH HUNTER NODE BATTERY CONTROLLER TO BE REMOVED. CONTRACTOR IS TO FIELD LOCATE VALVE. REMOVE VALVE & MANIFOLD AND CAP MAINLINE PIPE. DELIVER HUNTER NODE BATTERY CONTROLLER AND OTHER USABLE PARTS AND VALVE BOX TO DISTRICT. DISPOSE OF ALL REMOVED MATERIALS NOT WANTED BY DISTRICT OFF SITE AT NO ADDITIONAL COST TO DISTRICT. CONTRACTOR TO FIELD LOCATE.
5. EXISTING REMOTE CONTROL VALVE TO BE REMOVED AND REPLACED. INSTALL NEW REMOTE CONTROL VALVE ON THE EXISTING IRRIGATION MAINLINE PIPE AND CONNECT TO THE NEW SPRINKLERS. SEE IRRIGATION PLAN ON PLAN SHEET L202 FOR ADDITIONAL INFORMATION. CONTRACTOR IS TO CONNECT THE EXISTING LOW VOLTAGE CONTROL WIRING TO NEW REMOTE CONTROL VALVE AS REQUIRED. ALL LOW VOLTAGE CONTROL WIRE SPLICES ARE TO BE MADE WITH 3M DBY WATERPROOF SPLICE KITS AND LOCATED IN VALVE BOXES. DELIVER USABLE PARTS AND VALVE BOX TO DISTRICT. DISPOSE OF ALL REMOVED MATERIALS NOT WANTED BY DISTRICT OFF SITE AT NO ADDITIONAL COST TO DISTRICT. CONTRACTOR TO FIELD VERIFY.
6. IRRIGATION POINT OF CONNECTION: CONTRACTOR IS TO CONNECT NEW IRRIGATION MAINLINE PIPE TO EXISTING IRRIGATION MAINLINE PIPE TO REMAIN IN SERVICE AT THE LOCATIONS INDICATED. EXISTING MAINLINE PIPE ROUTING IS DIAGRAMMATIC, AND CONTRACTOR IS TO FIELD LOCATE TO DETERMINE POINTS OF CONNECTION IN THE FIELD. SEE IRRIGATION PLAN L202 FOR ADDITIONAL INFORMATION. CONTRACTOR IS TO TRACE AND IDENTIFY EXISTING LOW VOLTAGE CONTROL WIRING THAT TRAVERSES THROUGH THE PROJECT AND IS TO SPLICE AND EXTEND IT ADJACENT TO THE NEW IRRIGATION MAINLINE PIPE. CONTRACTOR IS TO SPLICE AND EXTEND EXISTING LOW VOLTAGE CONTROL WIRING TO NEW REMOTE CONTROL VALVES IN THE PROJECT AREA FROM EXISTING IRRIGATION CONTROLLERS 'A' & 'B'. CONTRACTOR IS TO TRACE ALL EXISTING LOW VOLTAGE CONTROL WIRING IN THE FIELD TO DETERMINE THE BEST LOCATION TO INTERCEPT EXISTING CONTROL WIRES AS NOTED ABOVE. CONTRACTOR TO FIELD VERIFY.

General Notes

LICENSED LANDSCAPE ARCHITECT — DAVID B. BIGLER — RLA # 3887 — 31 JULY 24 RENEWAL DATE — STATE OF CALIFORNIA

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Consultant

Earl Warren Junior High School
Modernization Phase 1
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

IRRIGATION DEMOLITION PLAN
PARTIAL SITE PLAN

Drawing

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LICENSED ARCHITECT — MICHAEL K. FERRARO — No. C23724 — Exp. 4-30-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: DB	Copyright 2022 Darden Architects
Scale: As Indicated	Drawn By: SV	SD/L101
Project Number: 2228	Checked By: DB	
Date: 05/25/23	Reviewed By: DB	

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IRRIGATION DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	Existing Sprinklers to Remain & Protect, unless otherwise noted. See Keynotes, Designated Irrigation Demolition Areas and Landscape Irrigation Plans. Contractor to field verify.
	Existing Lateral Pipe to Remain & Protect. Modify as required for the project. See Keynote, Designated Irrigation Demolition Areas and Landscape Irrigation Plans. Contractor to field verify.
	Existing Irrigation Mainline (Remain & Protect): Routing shown is diagrammatic. Contractor is to pot hole and field locate all relevant existing irrigation improvements that affect construction activities. Sections of the existing mainline pipe are to remain and protect and other sections are being taken out of service. Contractor is to field verify existing conditions prior to bid to determine the final extent of work. See Irrigation Plans for additional information where new irrigation mainline will replace existing irrigation mainline pipe. Contractor to field verify.
	Existing Irrigation Mainline (Abandoned / Removed): Routing shown is diagrammatic. Contractor is to pot hole and field locate all relevant existing irrigation improvements that affect construction activities. Sections of the existing mainline pipe are being taken out of service. Mainline piping being taken out of service is to be removed where it interfere's with construction activities, or is located below the proposed building, otherwise mainline piping may be abandoned below grade. Cap ends to abandon below grade where it is cut or damaged. Contractor is to field verify existing conditions prior to bid to determine the final extent of work. See Irrigation Plans for additional information where new irrigation mainline will replace existing irrigation mainline pipe. Contractor to field verify.
	Existing Remote Control Valve to Remain & Protect, unless otherwise noted. See Keynotes, designated Irrigation Demolition Areas and Landscape Irrigation Plan. Contractor to field verify.
A-27 UNK	Existing Controller # / Station # Gallons per minute (UNK - Valve flow rate is unknown)
A B	Existing Conventional Irrigation Controllers (Two (2) Rainbird ESP-LXME) to Remain and Protect located in a storage room on the north wall of Bldg H. See existing Irrigation Controllers 'A' & 'B' photo below. Contractor to field verify. See Landscape Irrigation Plan on Plan Sheets L202 for additional information.
	Existing Irrigation Improvements to Remain and Protect. All areas adjacent to the project area have existing Irrigation Improvements to Remain & Protect. Contractor is to repair all damage to existing improvements that are intended to remain & protect to match existing improvements. Damage may be a direct or indirect result of their work or may be caused by neglect. Contractor to field verify.
	Existing Irrigation Areas to be Removed. The Contractor is to remove existing sprinklers, valves and other irrigation improvements visible at the surface in areas to receive new irrigation and deliver salvaged parts, including, but not limited to sprinklers, valves, valve boxes etc., to the District Maintenance Department. Piping is to be removed where it interferes with construction activities or is below proposed buildings, otherwise piping may be abandoned below grade. Where piping is brought to the surface, the Contractor shall cut it off a minimum of 12" below grade and capped. Depressions and holes that are created from removing existing irrigation improvements being replaced are to be filled with clean topsoil level with surrounding grade and compacted. Irrigation system and building water are to remain intact and operational for areas to remain and protect. Contractor to field verify.

Dashed symbols represent existing irrigation improvements to Remain & Protect unless otherwise noted or located in areas to receive new improvements or areas to have new irrigation installed. Existing locations are diagrammatic. Contractor is to field locate all existing improvements that may effect the work. Contractor to field verify.

NOTE: EXISTING REMOTE CONTROL VALVES AND IRRIGATION IMPROVEMENTS SHOWN ON THE PLAN ARE DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE TO FIELD LOCATE ALL IMPROVEMENTS AND PERFORM THE WORK OUTLINED AS SHOWN ON THE PLANS. CONTRACTOR IS TO TRACE EXISTING WIRING, POT HOLE AND USE ALL REASONABLE MEANS TO FIELD LOCATE EXISTING IMPROVEMENTS.

EXISTING CONTROLLERS 'A' & 'B'

LANDSCAPE DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	Existing Tree to be Removed. Contractor is to remove the designated trees to include all vegetation, branches, trunk, stump and roots to a minimum depth of 24" below grade. Contractor is to fill any depressed areas with clean sandy topsoil and haul all debris off site at the contractors expense to and approved disposal site.
	Existing Tree to Remain & Protect. Limit compaction and disturbance within the tree drip line. Provide temporary water as required to maintain a healthy growth state.
	Existing Turf & Landscape Areas to Remain and Protect. Existing turf, plant material or trees that are damaged due to construction activities, vehicle damage, stress due to lack of water or other deterioration of the existing areas to remain are to be restored by the contractor to the existing condition prior to the project at no additional cost to the District. This includes damage that may occur at any area of the campus. In disturbed areas, the Contractor is to fill and grade low and depressed areas with clean sandy topsoil and hydroseed existing turf areas to match the adjacent existing turf. In shrub areas, after grading as described above, the Contractor is to repair any damage and replace any stressed or damaged plant material to match the existing. The Contractor is responsible for hydroseeding over trenches and all disturbed turf areas due to any construction activities. Contractor is to maintain hydroseeded and repaired landscape areas until fully established and weed free, a minimum of 120 days or until accepted by the District.
	Existing Planter Areas to be Removed. Contractor is to remove the designated shrubs to include all vegetation, branches, trunk, stump and roots to a minimum depth of 24" below grade. Contractor is to fill any depressed areas with clean sandy topsoil and haul all debris off site at the contractors expense to and approved disposal site.
	Existing Turf Demolition: Contractor is to remove existing turf areas after existing turf has been eradicated with approved chemical herbicide (3 applications min.) required. Contractor to irrigate existing turf to keep in healthy growth state. Herbicide applications are to be a minimum of 1 week apart. Contractor is to remove all vegetation and root mat where new landscaping is shown or other improvements are shown. Regrade Landscape areas 3/4" (Turf Areas) below adjacent concrete sidewalks and contour grades to insure positive drainage in areas. Contractor is to remove all vegetation, green waste and debris off site at no additional cost to the District. All landscape areas are to have a positive slope and the site is to be free draining with no standing water. See Site Grading Plan. Contractor is to field verify the extent of Landscape Demolition prior to bid.
	Renovated Turf Area. Contractor is to fill and grade low and depressed areas with clean sandy loam topsoil and hydroseed area to match the adjacent existing turf. Renovated turf areas are to be scalped and verticut in two directions to prepare the seed bed and insure seed to soil contact before hydroseeding. Contractor to seed areas to match existing turfgrass, with a blend of YUKON Bermudagrass (4 lbs per 1,000 sq ft), and Perennial Ryegrass (8 lbs per 1,000 sq ft), or approved equal. Hydroseed at a rate of twelve pounds per one thousand square feet (12 lbs/1,000 sq ft.). See specifications for hydroseeding. The Contractor is responsible for hydroseeding over trenches and all disturbed areas due to construction activities from any trade on all parts of the campus. Contractor is to maintain hydroseeded areas until fully established and weed free. Contractor is to field verify.

DSA File No.:
15-95

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APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

LICENSED LANDSCAPE ARCHITECT
DAVID B. BIGLER
LA # 3887
31 JULY 24
RENEWAL DATE
STATE OF CALIFORNIA

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Consultant

Earl Warren Junior High School
Modernization Phase 1
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

LANDSCAPE & IRRIGATION DEMOLITION
LEGENDS & NOTES

Drawing

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LICENSED ARCHITECT
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Architect

No.	Revision/Submission	Date

Revision

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Scale: As Indicated	Designed By: DB	
	Drawn By: SV	
Project Number: 2228	Checked By: DB	
Date: 05/25/23	Reviewed By: DB	

SD/L102

L3 Landscape & Irrigation Demolition Legends

NTS

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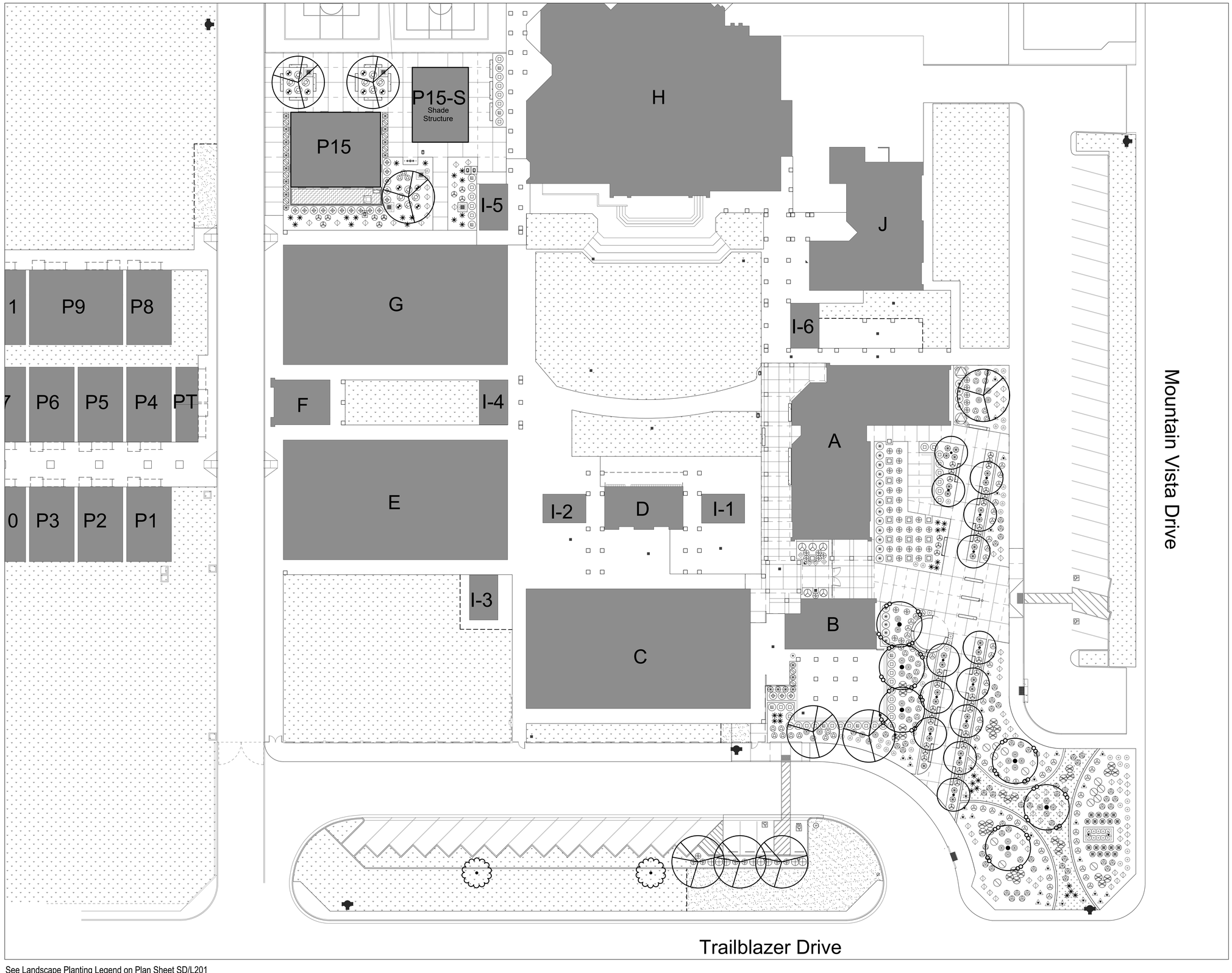

See Landscape Planting Legend on Plan Sheet SD/L201

N

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NEW PORTABLE BUILDING HARDSCAPE SHADING CALCULATION

	85%	70%	50%	25%	Total
LARGE TREE (35' - 40')	818 SF	673 SF	481 SF	241 SF	
1. PISTACIA chinensis 'Keith Davey'	2	0	1	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
SHADE QUANTITY (SF)	1,636 SF	0 SF	481 SF	0 SF	2,117 SF
MEDIUM TREE (30' - 35')	707 SF	530 SF	354 SF	177 SF	
	0	0	0	0	
SHADE QUANTITY (SF)	0 SF	0 SF	0 SF	0 SF	0 SF
SMALL TREE (20' - 25')	452 SF	339 SF	226 SF	113 SF	
	0	0	0	0	
SHADE QUANTITY (SF)	0 SF	0 SF	0 SF	0 SF	0 SF
TOTAL LANDSCAPE SHADING PROVIDED FOR NEW PORTABLE BLDG HARDSCAPE AREAS					2,117 SF
TOTAL ADMIN FRONTAGE HARDSCAPE AREAS					4,629 SF
NEW PORTABLE BLDG HARDSCAPE SHADING PERCENTAGE (MIN. 20% REQ'D)					46%

CAMPUS ENTRANCE HARDSCAPE SHADING CALCULATION

	85%	70%	50%	25%	Total
LARGE TREE (35' - 40')	818 SF	673 SF	481 SF	241 SF	
1. PISTACIA chinensis 'Keith Davey'	0	0	1	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
SHADE QUANTITY (SF)	0 SF	0 SF	481 SF	0 SF	481 SF
MEDIUM TREE (30' - 35')	707 SF	530 SF	354 SF	177 SF	
	0	0	0	0	
SHADE QUANTITY (SF)	0 SF	0 SF	0 SF	0 SF	0 SF
SMALL TREE (20' - 25')	384 SF	316 SF	226 SF	113 SF	
1. COTINUS coggygria 'Royal Purple'	0	4	9	0	
2. CERCIDIUM 'Desert Museum'	0	0	2	1	
SHADE QUANTITY (SF)	0 SF	1,264 SF	2,486 SF	113 SF	3,863 SF
TOTAL LANDSCAPE SHADING PROVIDED FOR CAMPUS ENTRANCE HARDSCAPE AREAS					4,344 SF
TOTAL CAMPUS ENTRANCE HARDSCAPE AREAS					7,709 SF
CAMPUS ENTRANCE HARDSCAPE SHADING PERCENTAGE (MIN. 20% REQ'D)					56%

General Notes

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DAVID B. BIGLER
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Consultant

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LANDSCAPE PLANTING PLAN
PARTIAL SITE PLAN

Drawing

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Scale: As Indicated
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SD/L200

L4 | Landscape Planting Plan
1" = 20'-0" | Partial Site Plan

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Water Usage Chart - MAWA vs. ETWU

MAWA= (Et_o) x (0.62) x [(0.45 x LA) + (1.0 - 0.45) x SLA)]
= (57.9) x (0.62) x (21,481) x (0.45)
= 347,006 gallons per year

ETWU (**Hydrozone #1 - Low - Bubblers**)
ETWU= (Et_o) x (0.62) x [((PF) x (HA)) / (IE)]
= (57.9) x (0.62) x [((0.2) x (15,736)) / (0.81)]
= 139,479 gallons per year

ETWU (**Hydrozone #2 - Moderate - Bubblers**)
ETWU= (Et_o) x (0.62) x [((PF) x (HA)) / (IE)]
= (57.9) x (0.62) x [((0.5) x (2,577)) / (0.81)]
= 57,104 gallons per year

ETWU (**Hydrozone #3 - Moderate - Sprays**)
ETWU= (Et_o) x (0.62) x [((PF) x (HA)) / (IE)]
= (57.9) x (0.62) x [((0.6) x (3,168)) / (0.75)]
= 90,980 gallons per year

TOTAL ETWU (Sum of Hydrozones 1, 2 & 3) = 287,563 gallons per year

MAWA > ETWU
347,006 gallons > 287,563 gallons ✓

Hydrozone (HZ)	Plant Water Use Req.	Plant Factor (PF)	Hydrozone Area (sq ft) (HA)	Zone or Valve Numbers	Irrigation Method	Percent of Landscape Area	Irrigation Efficiency (IE)
1	Low	0.2	15,736	SEE PLANS	Bubblers	73%	0.81
2	Moderate	0.5	2,577	SEE PLANS	Bubblers	12%	0.81
3	Moderate	0.6	3,168	SEE PLANS	Sprays	15%	0.75
		Sum	21,481				

MODIFIED PARKING LOT SHADING CALCULATION

	100%	75%	50%	25%	Total
LARGE TREE (35' - 40')	962 SF	722 SF	481 SF	241 SF	
1. PISTACIA chinensis 'Keith Davey'	0	0	3	0	
	0	0	0	0	
	0	0	0	0	
	0	0	0	0	
SHADE QUANTITY (SF)	0 SF	0 SF	1,443 SF	0 SF	1,443 SF
MEDIUM TREE (30' - 35')	707 SF	530 SF	354 SF	177 SF	
	0	0	0	0	
SHADE QUANTITY (SF)	0 SF	0 SF	0 SF	0 SF	0 SF
SMALL TREE (20' - 25')	452 SF	339 SF	226 SF	113 SF	
	0	0	0	0	
SHADE QUANTITY (SF)	0 SF	0 SF	0 SF	0 SF	0 SF
TOTAL LANDSCAPE SHADING PROVIDED FOR MODIFIED PARKING LOT AREAS					1,443 SF
TOTAL MODIFIED PARKING LOT AREA					2,840 SF
PARKING LOT SHADING PERCENTAGE FOR MODIFIED PARKING LOT AREAS (MIN. 50% REQ'D)					51%

LANDSCAPE PLANTING LEGEND

SYMBOL	WATER USE	SIZE	DESCRIPTION
	LOW	1 Gal	BULBINE frutescens 'Tiny Tangerine', Dwarf Orange Bulbine.
	LOW	1 Gal	TEUCHRIUM cossonii, Gray Creeping Germander.
	LOW	5 Gal	HESPERALOE parviflora, Red Yucca.
	LOW	1 Gal	LANTANA montevidensis 'Trailing Lavender', Lavender Lantana.
	MOD	1 Gal	LIRIOPE muscari, Blue Lily Turf.
	LOW	5 Gal	LEUCOPHYLLUM zygophyllum 'Cimarron', Blue Ranger.
	LOW	1 Gal	LANTANA 'Lemon Zest', Yellow Bandana Lantana.
	LOW	1 Gal	DIETES iridioides 'Lemon Drops', Hybrid Fortnight Lily.
	LOW	1 Gal	DIANELLA revoluta 'Little Rev', Little Rev Flax.
	LOW	5 Gal	NANDINA domestica 'Gulf Stream', Heavenly Bamboo.
	LOW	5 Gal	MUHLENBERGIA dubia, Pine Muhly Grass.
	LOW	5 Gal	SALVIA 'Hot Lips', Hot Lips Salvia.
	LOW	1 Gal	MYOPORUM parvifolium 'Pink', Pink Myoporum.
	MOD	1 Gal	DIANELLA caerulea 'Cassa Blue', Cassa Blue Flax.
	LOW	5 Gal	MUHLENBERGIA capillaris 'Regal Mist', Regal Mist Grass.
	MOD	5 Gal	PITTOSPORUM tobira 'Variegata', Variagated Tobira.
	LOW	5 Gal	RHAPHIOLEPIS umbellata 'Minor', Yeddo Hawthorn.
	MOD	5 Gal	LOROPETALUM chinense 'Burgundy', Loropetelum.
	LOW	5 Gal	CISTUS 'Sunset', Sunset Rock Rose.
	LOW	5 Gal	ERIGERON karvinskianus, Santa Barbara Daisy.
	MOD	5 Gal	RHAPHIOLEPIS indica 'Enchantress', Indian Hawthorn.
	LOW	5 Gal	CAESALPINIA pulcherrima Red Bird of Paradise.
	LOW	5 Gal	CALLISTEMON viminalis 'Little John', Dwarf Bottle Brush.
	LOW	5 Gal	TECOMA x 'Solar Flare', Solar Flare Tecoma.
	LOW	5 Gal	RUSSELIA x 'St. Elmo's Fire', Red Russelia.
	MOD	15 Gal	MAGNOLIA soulagiana 'Alexandrina', Saucer Magnolia, Multi Trunk Form.
	LOW	15 Gal	COTINUS coggygria 'Royal Purple', Smoke Tree, multi trunk form.
	LOW	15 Gal	CERCIDIUM 'Desert Museum', Desert Museum Palo Verde Tree.
	LOW	15 Gal	PISTACIA chinensis 'Keith Davey', Chinese Pistache Tree.
	Existing		Existing Tree to Remain & Protect. Limit compaction and disturbance within the tree drip line. Provide temporary water as required to maintain a healthy growth state.
			Renovated Turf Area. Contractor is to fill and grade low and depressed areas with clean sandy loam topsoil and hydroseed area to match the adjacent existing turf. Renovated turf areas are to be graded smooth, scalped and verticut in two directions to prepare the seed bed and insure seed to soil contact before hydroseeding. Contractor to seed areas to match existing turfgrass, with a blend of YUKON Bermudagrass (4 lbs per 1,000 sq ft), and Perennial Ryegrass (8 lbs per 1,000 sq ft), or approved equal. Hydroseed at a rate of twelve pounds per one thousand square feet (12 lbs/1,000 sq ft.). See specifications for hydroseeding. The Contractor is responsible for hydroseeding over trenches and all disturbed areas due to construction activites from any trade on all parts of the campus. Contractor is to maintain hydroseeded areas until fully established and weed free. Contractor is to field verify. Regrade turf areas 1" below adjacent concrete sidewalks and contour grades to insure positive drainage. Contractor is to remove all vegetation, green waste and debris off site at no additional cost to the District. All planters are to have a positive slope away from buildings (min. 2% slope).
	Existing		Existing Turf & Landscape Areas to Remain and Protect. In disturbed areas, the Contractor is to fill and grade low and depressed areas with clean sandy topsoil and hydroseed existing turf areas to match the adjacent existing turf (see turf renovation note above. In shrub areas, after grading as described above, the Contractor is to repair any damage and replace any stressed or damaged plant material to match the existing. The Contractor is responsible for hydroseeding over trenches and all disturbed turf areas due to any construction activities. Contractor is to maintain hydroseeded and repaired landscape areas until fully established and weed free, a minimum of 120 days or until accepted by the District. This includes damage that may occur in any area of the campus. Contractor to field verify.
	Compacted DG		Decomposed Granite Landscape Areas - 3" compacted layer of Palm Springs Gold Decomposed Granite installed over compacted subgrade. Excavate existing soil as required to achieve the design finish grade (top of DG) per site civil plans and slope to drain to perimeter parking lot. See Installation Detail #17 on Plan Sheet SD/L301 for additional information.
	Stabilized DG		Decomposed Granite Utility/Service Areas - 3" layer of grey stabilized Decomposed Granite mulch, compacted thickness as supplied by Rosenbalm Rockery, or approved equal. Submit samples to District to approve material to be installed. Decomposed Granite is to be top quality and of the highest grade. Decomposed Granite areas are to be compacted with a water drum roller and vibrating plate compacter and finished graded per the site grading plan. Decomposed Granite is to be at optimum moisture content for compaction work. Sloppy or loose / lightly compacted areas will be rejected. See Installation Detail #18 on Plan Sheet SD/L301 for additional information.

SEE TREE & SHRUB PLANTING DETAIL #16 ON PLAN SHEET SD/L301
FOR ADDITIONAL INFORMATION.

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

LICENSED LANDSCAPE ARCHITECT — DAVID B. BIGLER — LANDSCAPE ARCHITECT — STATE OF CALIFORNIA — 31 JULY 24 — RENEWAL DATE — LA # 3887

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Fax: (559) 276-9497

Consultant

Earl Warren Junior High School
Modernization Phase 1
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

LANDSCAPE PLANTING LEGEND
AND NOTES

Drawing

darden architects
ARCHITECTURE
PLANNING
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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT — MICHAEL K. FATINO — No. C23724 — Exp. 4-30-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: DB
Drawn By: SV
Checked By: DB
Reviewed By: DB

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Scale: As Indicated
Project Number: 2228
Date: 05/25/23

SD/L201

L5 | Landscape Planting Legend and Notes
NTS

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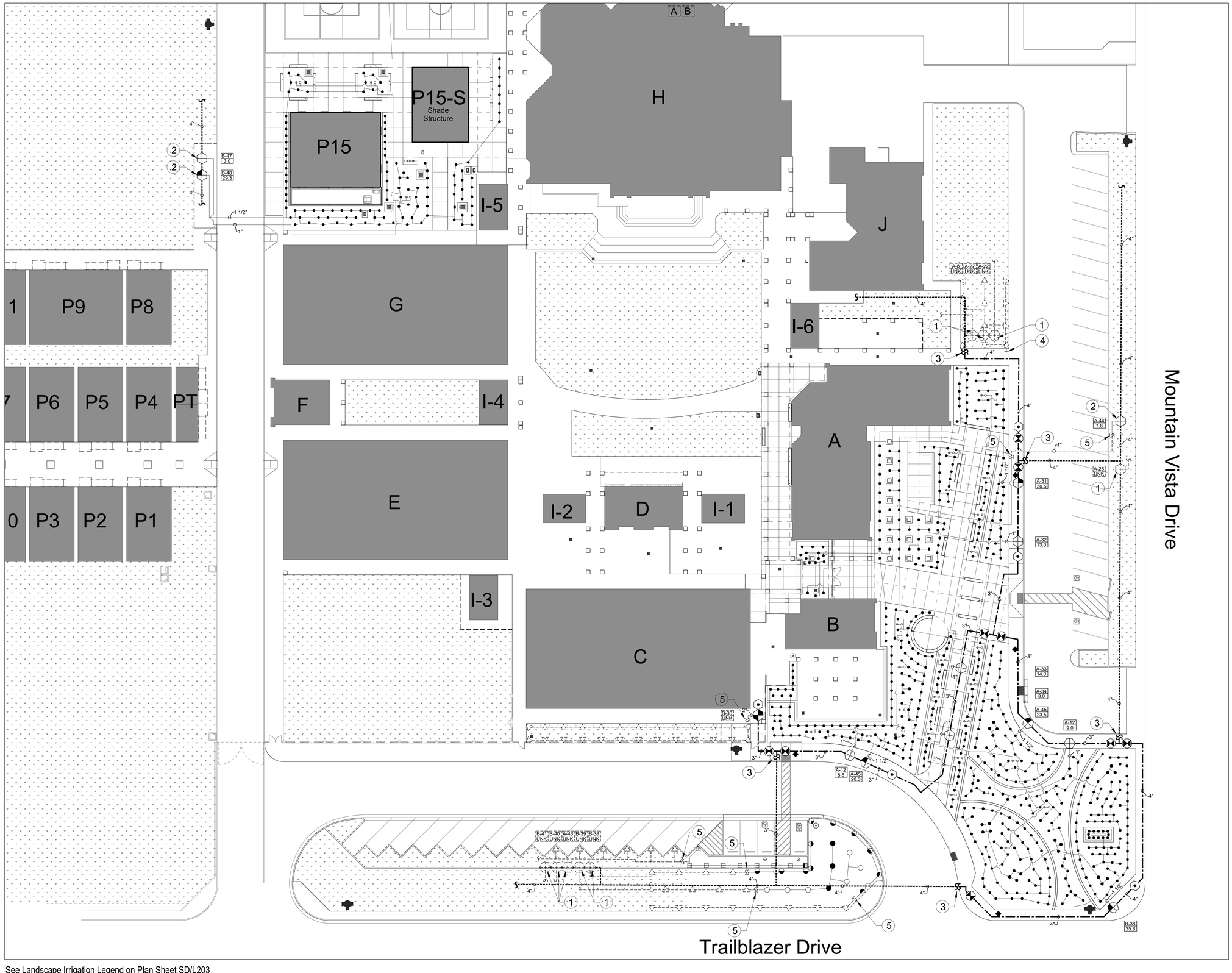

See Landscape Irrigation Legend on Plan Sheet SD/L203

DSA File No.:
15-95

DSA Application No.:
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
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Agency Approval

IRRIGATION KEYNOTES

1. EXISTING REMOTE CONTROL VALVE FOR SPRINKLERS TO REMAIN & PROTECT AND MAINTAIN EXISTING CONTROLLER ASSIGNMENT. CONTRACTOR TO FIELD VERIFY.
2. EXISTING REMOTE CONTROL VALVE TO BE REMOVED AND REPLACED. INSTALL NEW REMOTE CONTROL VALVE ON THE EXISTING IRRIGATION MAINLINE PIPE AND CONNECT TO THE NEW SPRINKLERS. SEE IRRIGATION DEMOLITION PLAN ON PLAN SHEET SD/L101 FOR ADDITIONAL INFORMATION. CONTRACTOR IS TO CONNECT THE EXISTING LOW VOLTAGE CONTROL WIRING TO NEW REMOTE CONTROL VALVE AS REQUIRED. ALL LOW VOLTAGE CONTROL WIRE SPLICES ARE TO BE MADE WITH 3M DBY WATERPROOF SPLICE KITS AND LOCATED IN VALVE BOXES. DELIVER USABLE PARTS AND VALVE BOX TO DISTRICT. DISPOSE OF ALL REMOVED MATERIALS NOT WANTED BY DISTRICT OFF SITE AT NO ADDITIONAL COST TO DISTRICT. CONTRACTOR TO FIELD VERIFY.
3. IRRIGATION POINT OF CONNECTION: CONTRACTOR IS TO CONNECT NEW IRRIGATION MAINLINE PIPE TO THE EXISTING IRRIGATION MAINLINE PIPE TO REMAIN IN SERVICE AT THE LOCATIONS INDICATED. EXISTING MAINLINE PIPE ROUTING IS DIAGRAMATTIC, AND CONTRACTOR IS TO FIELD LOCATE TO DETERMINE THE POINTS OF CONNECTION IN THE FIELD. CONTRACTOR IS TO INTERCEPT THE EXISTING IRRIGATION LOW VOLTAGE CONTROL WIRING AND IS TO SPLICE AND EXTEND THE EXISTING LOW VOLTAGE CONTROL WIRING TO THE NEW REMOTE CONTROL VALVES WITH THE SAME DESIGNATED STATION ASSIGNMENT FROM THE IRRIGATION POC WHERE THE LOW VOLTAGE CONTROL WIRE WAS TRACED TO FROM THE EXISTING REMOTE CONTROL VALVE BEING REMOVED. SOME EXISTING LOW VOLTAGE CONTROL WIRES ARE TO BE SPLICED AND EXTENDED THROUGH THE PROJECT AREA THAT ARE TO REMAIN AND PROTECT IN AREAS OUTSIDE THE PROJECT AREA. CONTRACTOR TO INSTALL SPLICE BOXES ON BOTH SIDES AS REQUIRED. ALL LOW VOLTAGE CONTROL WIRE SPLICES ARE TO BE MADE WITH WATERPROOF SPLICE KITS AND INSTALLED IN STANDARD SIZE VALVE BOX, LABELED ON AS BUILT PLANS. EXISTING LOW VOLTAGE CONTROL WIRES FOR STATIONS A-12 AND A-45 ARE TO BE EXTENDED TO TWO (2) NEW REMOTE CONTROL VALVES EACH. CONTRACTOR IS TO TRACE ALL EXISTING LOW VOLTAGE CONTROL WIRING IN THE FIELD TO DETERMINE THE BEST LOCATION TO INTERCEPT EXISTING CONTROL WIRES AS NOTED ABOVE. CONTRACTOR TO FIELD VERIFY.
4. CONTRACTOR IS TO FIELD LOCATE THE EXISTING LATERAL PIPE CROSSING THE SIDEWALK AND CAP THE EXISTING LATERAL PIPE AS SHOWN. CONTRACTOR TO FIELD VERIFY.
5. CONTRACTOR IS TO FIELD LOCATE THE EXISTING LATERAL PIPE AND CONNECT THE NEW LATERAL PIPE AS REQUIRED. CONTRACTOR IS TO MATCH PIPE SIZE. CONTRACTOR TO FIELD VERIFY.

General Notes

LICENSED LANDSCAPE ARCHITECT — DAVID B. BIGLER — LARLA # 3887 — 31 JULY 24 — STATE OF CALIFORNIA

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Consultant

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Modernization Phase 1
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

LANDSCAPE IRRIGATION PLAN
PARTIAL SITE PLAN

Drawing

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LICENSED ARCHITECT — MICHAEL K. FLORES — No. C23724 — Exp. 4-30-24 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

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Designed By: DB
Drawn By: SV
Checked By: DB
Reviewed By: DB

Scale: As Indicated
Project Number: 2228
Date: 05/25/23

SD/L202

L6	Landscape Irrigation Plan
1" = 20'-0"	Partial Site Plan

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LANDSCAPE & IRRIGATION NOTES

1. PRODUCT "OR APPROVED EQUAL" SPECIFICATION NOTE: ALL SPECIFIED MATERIALS, PRODUCTS AND MANUFACTURERS ARE RELEVANT TO DESCRIBE THE REQUIRED QUALITY AND FEATURES OF A PARTICULAR COMPONENT OF THE PROJECT, HOWEVER, THE SPECIFIC PRODUCT OR MANUFACTURER NOTED IS TO BE CONSTRUED TO BE FOLLOWED BY THE WORDS, "OR APPROVED EQUAL".

2. GENERAL NOTE: THE CONTRACTOR IS TO SUPPLY ALL EQUIPMENT, MATERIALS AND LABOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. ADDITIONAL EQUIPMENT AND MATERIALS IN ADDITION TO THE SYSTEM COMPONENTS LISTED IN THE LEGEND MAY BE REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

3. SPRINKLER ADJUSTMENT NOTE: CONTRACTOR SHALL MAKE ANY ADJUSTMENTS OR CHANGES TO SPRINKLERS, NOZZLES, RADIUS AND ARCS AS REQUIRED TO PROVIDE 100% COVERAGE TO ALL LANDSCAPE AREAS AND PREVENT OVER SPRAY ONTO BUILDINGS OR HARDSCAPED SURFACES.

4. EXISTING IRRIGATION SYSTEM AND WATERING NOTE: THE CONTRACTOR IS RESPONSIBLE TO KEEP THE EXISTING IRRIGATION SYSTEM TO REMAIN OPERATIONAL TO IRRIGATE ALL LANDSCAPED AREAS. WHERE AUTOMATIC OPERATION OF EXISTING IRRIGATION SYSTEMS IS INTERRUPTED DUE TO CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE TO SUPPLY TEMPORARY IRRIGATION TO NEW AND/OR EXISTING AREAS THAT ARE AFFECTED BY THE SERVICE INTERRUPTION AS REQUIRED DUE TO PREVAILING WEATHER CONDITIONS. THE CONTRACTOR SHALL MAKE REPAIRS TO THE EXISTING SYSTEM AS NEEDED. THE CONTRACTOR IS TO ASSIST CAMPUS MAINTENANCE PERSONNEL AS NEEDED TO KEEP THE EXISTING LANDSCAPED AREAS IRRIGATED. AREAS AFFECTED BY NEW CONSTRUCTION ARE TO BE IRRIGATED BY THE CONTRACTOR. CONTRACTOR IS TO REPLACE ANY DEAD OR STRESSED PLANT MATERIALS (TO MATCH EXISTING) THAT WERE TO REMAIN THAT WERE DAMAGED OR NEGLECTED DUE TO CONSTRUCTION ACTIVITIES.

5. EXISTING IRRIGATION SYSTEM TO BE REPLACED BY NEW IRRIGATION SYSTEM NOTE: THE CONTRACTOR IS TO REMOVE EXISTING SPRINKLERS, VALVES AND OTHER IRRIGATION IMPROVEMENTS VISIBLE AT THE SURFACE IN AREAS TO RECEIVE NEW IRRIGATION AND DELIVER SALVAGED PARTS, INCLUDING, BUT NOT LIMITED TO SPRINKLERS, VALVES, VALVE BOXES ETC., TO THE CAMPUS MAINTENANCE DEPARTMENT. PIPING IS TO BE REMOVED WHERE IT INTERFERES WITH CONSTRUCTION ACTIVITIES, OTHERWISE PIPING MAY BE ABANDONED BELOW GRADE. WHERE PIPING IS BROUGHT TO THE SURFACE, THE CONTRACTOR SHALL CUT IT OFF A MINIMUM OF 12" BELOW GRADE. DEPRESSIONS AND HOLES THAT ARE CREATED FROM REMOVING EXISTING IRRIGATION IMPROVEMENTS BEING REPLACED ARE TO BE FILLED WITH CLEAN TOPSOIL LEVEL WITH SURROUNDING GRADE AND COMPACTED. IRRIGATION SYSTEM AND BUILDING WATER ARE TO REMAIN INTACT AND OPERATIONAL.

6. CAMPUS IRRIGATION WATER AVAILABILITY NOTE: THE CONTRACTOR IS TO INSTALL ALL REROUTED MAINLINE PIPES WHILE LEAVING THE EXISTING IRRIGATION SYSTEM IN SERVICE DURING THE PROJECT. WHEN ALL PIPING AND WIRE REROUTING WORK IS COMPLETE THE CONTRACTOR MAY ARRANGE TO SHUT OFF THE WATER TO MAKE FINAL CONNECTIONS FOR A PERIOD OF TIME NOT TO EXCEED TWO DAYS. THE CAMPUS MAINTENANCE SUPERVISOR IS TO BE GIVEN A MINIMUM OF ONE WEEK WRITTEN NOTICE TO OVERWATER THE CAMPUS AREAS IN QUESTION PRIOR TO SHUTTING OFF THE WATER TO MAKE FINAL CONNECTIONS. IF PREVAILING WEATHER CONDITIONS ARE OVER 95 DEGREES DAYTIME HIGH TEMPERATURES, THEN THE SHUT DOWN DURATION MAY BE LIMITED TO NO MORE THAN ONE DAY AS DECIDED BY CAMPUS MAINTENANCE SUPERVISOR.

7. EXISTING TURF, PLANT & TREE TO REMAIN & PROTECT NOTE: THE CONTRACTOR IS RESPONSIBLE TO REPLACE ANY EXISTING TURF, PLANT MATERIALS OR TREES THAT ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES, VEHICLE DAMAGE, AND STRESS DUE TO LACK OF WATER OR OTHER DETERIORATION OF THE EXISTING AREAS TO REMAIN ARE TO BE RESTORED BY THE CONTRACTOR TO THE EXISTING CONDITION PRIOR TO THE PROJECT AT NO ADDITIONAL COST TO THE DISTRICT. THIS INCLUDES DAMAGE THAT MAY OCCUR AT ANY AREA OF THE CAMPUS.

8. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ANY VEGETATION WITHIN THE PROJECT AREA THAT IS NOT CALLED TO REMAIN AND PROTECT. ANY ADJACENT LANDSCAPE AREAS OUTSIDE THE PROJECT AREA THAT ARE TO REMAIN AND PROTECT THAT ARE DAMAGED ARE TO BE REPAIRED AND RESTORED AT NO ADDITIONAL COST TO THE DISTRICT. CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO VERIFY EXISTING CONDITIONS AND IMPROVEMENTS.

9. EXISTING IRRIGATION REMOTE CONTROL VALVES TO BE REMOVED NOTE: PRIOR TO ANY DEMOLITION WORK, CONTRACTOR IS TO FIELD VERIFY THAT ANY IRRIGATION SYSTEMS CONNECTED TO REMOTE CONTROL VALVES NOTED TO BE REMOVED HAVE NEW IRRIGATION PLANNED FOR THOSE AREAS. IF ANY IRRIGATION SYSTEM, OR PART THERE OF, IS LOCATED IN AN EXISTING AREA TO REMAIN & PROTECT, THE CONTRACTOR IS TO LEAVE THAT VALVE, OR A PORTION OF IT, IN SERVICE AS REQUIRED. NOTIFY THE LANDSCAPE ARCHITECT FOR DIRECTION. CONTRACTOR TO FIELD VERIFY.

10. ALL AREAS ADJACENT TO THE PROJECT AREA HAVE EXISTING IRRIGATION IMPROVEMENTS TO REMAIN & PROTECT. CONTRACTOR IS TO REPAIR ALL DAMAGE TO EXISTING IMPROVEMENTS THAT ARE INTENDED TO REMAIN & PROTECT TO MATCH EXISTING IMPROVEMENTS. DAMAGE MAY BE A DIRECT, INDIRECT RESULT OF THEIR WORK OR MAY BE CAUSED BY NEGLECT. CONTRACTOR TO FIELD VERIFY.

11. SEE LANDSCAPE IRRIGATION PLAN FOR WORK RELATING TO EXISTING SPRINKLERS AND LATERAL PIPING. CONTRACTOR TO FIELD VERIFY.

12. MANUAL IRRIGATION NOTE: THE CONTRACTOR IS RESPONSIBLE TO MANUALLY IRRIGATE ANY EXISTING IRRIGATION SYSTEM AREAS ON THE HIGH SCHOOL SITE WHERE THE EXISTING AUTOMATIC OPERATION OF THE EXISTING SYSTEMS TO REMAIN AND PROTECT ARE INTERRUPTED DUE TO CONSTRUCTION ACTIVITIES. DEPENDING UPON PREVAILING WEATHER CONDITIONS, DAILY WATERING MAY BE REQUIRED AS REQUESTED BY THE CAMPUS MAINTENANCE SUPERVISOR. THIS MAY INCLUDE AN AREA NEAR10 ACRES IN SIZE WITH DOZENS OF REMOTE CONTROL VALVES. THE CONTRACTOR IS TO CAREFULLY FIELD VERIFY AND COORDINATE WORK TO AVOID DAMAGING THE EXISTING PIPING OR WIRING THAT MAY REQUIRE MANUAL IRRIGATION OF THE SITE BY THE CONTRACTOR FOR EXTENDED PERIODS OF TIME.

LANDSCAPE IRRIGATION LEGEND

SYMBOL	DESCRIPTION
○	Rainbird #1804-SAM-PRS, 4" Pop-up Sprinkler with pressure regulation and check valve with Hunter PC Multi Stream Bubbler Nozzle (½" inlet: 0.5 gpm @ 30 psi). Install on uphill side of plant or tree. Install 24 inches from center of tree location. See Installation Detail #01 on Plan Sheet SD/L300 for additional information.
●	Rainbird #1804-SAM-PRS, 4" Pop-up Sprinkler with pressure regulation and check valve with Hunter PC Multi Stream Bubbler Nozzle (½" inlet: 0.25 gpm @ 30 psi). Install on uphill side of plant or tree. See Installation Detail #01 on Plan Sheet SD/L300 for additional information.
⊕	Rainbird #RWS-B-C-1402 with #1402 (0.5 gpm) bubbler Root Watering System. Install on uphill side of plant or tree. Install 24 inches from center of tree location. See Installation Detail #03 on Plan Sheet SD/L300 for additional information.
◯	Rainbird #1806-SAM-PRS, 6" Pop-up Sprinkler with pressure regulation and check valve with Rainbird U-Series 12' radius nozzles, U-12F for 360 arcs. Contractor is to adjust arc and radius to prevent overspray onto buildings and other hardscaped surfaces. If nozzle radius adjustment required is greater than 25% of nozzle rating, the Contractor is to substitute nozzle with 8', 10' or specialty pattern nozzle as required at no additional cost to Owner. Contractor is to review nozzle substitutions with Landscape Architect for comment, prior to installation. See Installation Detail #02 on Plan Sheet SD/L300 for additional information.
	Rainbird #1806-SAM-PRS, 6" Pop-up Sprinkler with pressure regulation and check valve with Rainbird U-Series 15' radius nozzles, U-15Q, U-15H and U-15F for 90, 180 & 360 arcs and Rainbird HE-VAN Series 15' radius nozzles, HE-VAN-15 for 120 arcs. Contractor is to use as few HE-VAN nozzles as possible. Contractor is to adjust arc and radius to prevent overspray onto buildings and other hardscaped surfaces. If nozzle radius adjustment required is greater than 25% of nozzle rating, the Contractor is to substitute nozzle with 12', 10' or specialty pattern nozzle as required at no additional cost to Owner. Contractor is to review nozzle substitutions with Landscape Architect for comment, prior to installation. See Installation Detail #02 on Plan Sheet SD/L300 for additional information.
△	Rainbird #1806-SAM-PRS, 6" Pop-up Sprinkler with pressure regulation and check valve with Rainbird U-Series 12' radius nozzles, U-12Q for 90 arcs. Contractor is to adjust arc and radius to prevent overspray onto buildings and other hardscaped surfaces. If nozzle radius adjustment required is greater than 25% of nozzle rating, the Contractor is to substitute nozzle with 8', 10' or specialty pattern nozzle as required at no additional cost to Owner. Contractor is to review nozzle substitutions with Landscape Architect for comment, prior to installation. See Installation Detail #02 on Plan Sheet SD/L300 for additional information.
	Rainbird #1806-SAM-PRS, 6" Pop-up Sprinkler with MPR Series Special Pattern nozzle, 15RCS/15LCS & 15SST pattern. Contractor is to adjust arc and radius to prevent overspray onto buildings and other hardscaped surfaces. See Installation Detail #02 on Plan Sheet SD/L300 for additional information.
	1" Rainbird #100-PESB, PESB Series Electric Remote Control Valve w/ pressure regulation. Install one valve per standard rectangular valve box. Mainline schedule 80 nipple entering the valve is to be the same size as the lateral exiting the valve. Install line size filter on pop-up spray and bubbler valves. See Installation Detail #07 on plan sheet SD/L300 for additional information.
	1 1/2" Rainbird #150-PESB, PESB Series Electric Remote Control Valve w/ pressure regulation. Install one valve per standard rectangular valve box. Mainline schedule 80 nipple entering the valve is to be the same size as the lateral exiting the valve. Install line size filter on pop-up spray and bubbler valves. See Installation Detail #08 on plan sheet SD/L300 for additional information.
	2" Rainbird #200-PESB, PESB Series Electric Remote Control Valve w/ pressure regulation. Install one valve per standard rectangular valve box. Mainline schedule 80 nipple entering the valve is to be the same size as the lateral exiting the valve. See Installation Detail #09 on plan sheet SD/L300 for additional information.
A-31 / 30.5	Controller # / Station # Gallons per minute (UNK - Valve flow rate is unknown)
●	1" Crispin #IC-10, Air and Vacuum Release Valve to be installed at high points and dead end runs of the mainline piping system. Install in a standard rectangular valve box. Contractor to field locate. See Installation Detail #12 on plan sheet SD/L300 for additional information.
	1" thru 3" Nibco #T-113 IRR BHW, Bronze Gate Valve with Non-Rising stem. 4" thru 6": Nibco # P619-RW, Resilient Seat Gasketed Joint Gate Valve, 200 psi. Gate Valves are to be line size and installed in a 10" round valve box. Provide two (2) square operating nut handles (4' min. length) for each type required to the District. See Installation Details #10 & #11 on Plan Sheet SD/L300 for additional information.
◆	Rainbird 44LRC, Quick Coupling Valve with locking rubber cover. Provide Maintenance Personnel with three (3) quick coupler keys with hose swivels and three (3) cover keys. Install in separate 10" round valve box. See Installation Detail #06 on Plan Sheet SD/L300 for additional information.
	1" thru 2": PVC Class 200 Solvent Weld lateral pipe. Sleeve all pipe under paved surfaces over eight feet wide with PVC Schedule 40 pipe a minimum of two times larger than the pipe being sleeved. One pipe per sleeve only. Minimum sleeve size is 2". Wires are to be sleeved separately from pipe. Size lateral piping as noted on the lateral pipe sizing chart, Detail #04 on Plan Sheet SD/L300 for additional information. Pipe sizing is not to exceed 5.0 feet per second flow velocity. Install all pipe in strict accordance with manufacturers instructions, using appropriate cement and primer for the various pipe sizes and prevailing site conditions. (Note: 1/2", 3/4" & 1 1/4" pipes are not allowed to be used on the project.) See Installation Details #14 & #15 on plan sheet SD/L301 for additional information.
	1" thru 3": PVC Schedule 40 SW Mainline Pipe. Mainline pipe fittings are to be PVC Schedule 80 solvent weld or threaded. 4" thru 6": PVC Class 200 Gasketed Mainline Pipe. Mainline pipe fittings are to be ductile iron Leemco gasketed fittings or Romac #202NS service saddle with double stainless steel straps, except where the irrigation details call for a specific fitting. Size Mainline Piping as noted on the plan. Install all pipe in strict accordance with manufacturers instructions with concrete thrust blocks at all changes in direction. No bending, or curving of the pipe will be allowed, except as permitted by the pipe manufacturer. Pipe manufacturer must be approved prior to installation. Use mechanical joint restraints where concrete thrust blocks are not applicable, such as vertical changes in direction, or when two pipelines are side by side. See Installation Details #13, #14 & #15 on plan sheet SD/L301 for additional information.
A B	Existing Rainbird Irrigation Controller to Remain & Protect. Contractor to field verify.
	Dashed symbols represent existing irrigation improvements to remain & protect unless otherwise noted. Existing locations are diagrammatic. Contractor is to field locate all existing improvements that may effect the work.
	Existing Irrigation Improvements to Remain and Protect. All areas adjacent to the project area have existing Irrigation Improvements to Remain & Protect. Contractor is to repair all damage to existing improvements that are intended to remain & protect to match existing improvements. Damage may be a direct or indirect result of their work or may be caused by neglect. Contractor to field verify.

IRRIGATION NOTES

1. THE CONTRACTOR IS RESPONSIBLE TO CAREFULLY EXAMINE THE SITE AND PLANS TO FIELD VERIFY ALL EXISTING CONCRETE, PATIOS, SIDEWALKS, PAVING AND OTHER HARDSCAPING TO REMAIN AND PROTECT TO DETERMINE THE SCOPE OF WORK REGARDING THE REQUIRED HORIZONTAL DIRECTIONAL BORING THAT WILL BE NECESSARY TO COMPLETE THE PROJECT. ALL EXISTING CONCRETE, PATIOS, SIDEWALKS, PAVING AND OTHER HARDSCAPED SURFACES MAY NOT BE SHOWN ON THE PLANS. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL LOCATIONS THAT MAY REQUIRE BORING, OR CUTTING AND PATCHING OF EXISTING HARDSCAPED SURFACES PRIOR TO BIDDING. GENERALLY, ALL HARDSCAPED SURFACE CROSSINGS ARE TO BE BY HORIZONTAL DIRECTIONAL BORING. THE CONTRACTOR MUST RECEIVE WRITTEN PERMISSION FROM THE DISTRICT PROJECT MANAGER TO SAW CUT AND PATCH ANY EXISTING HARDSCAPED SURFACES.

2. EXISTING REMOTE CONTROL VALVES AND IRRIGATION IMPROVEMENTS SHOWN ON THE PLAN ARE DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE TO FIELD LOCATE ALL IMPROVEMENTS AND PERFORM THE WORK OUTLINED AS SHOWN ON THE PLANS. CONTRACTOR IS TO TRACE EXISTING WIRING, POT HOLE AND USE ALL REASONABLE MEANS TO FIELD LOCATE EXISTING IMPROVEMENTS.

DSA File No.: *15-95*

DSA Application No.: *03-122615*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

LICENSED LANDSCAPE ARCHITECT DAVID B. BIGLER LA 3887 31 JULY 24 RENEWAL DATE STATE OF CALIFORNIA

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Consultant

Earl Warren Junior High School
Modernization Phase 1
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

LANDSCAPE IRRIGATION
LEGENDS & KEYNOTES

Drawing

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LICENSED ARCHITECT MICHAEL K. FERADO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

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Designed By: DB
Drawn By: SV
Checked By: DB
Reviewed By: DB

Scale: As Indicated
Project Number: 2228
Date: 05/25/23

SD/L203

L7 Landscape Irrigation Legend & Notes

NTS

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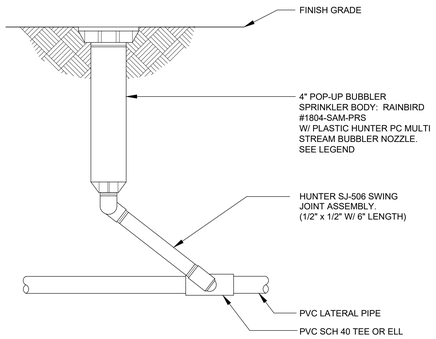


NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

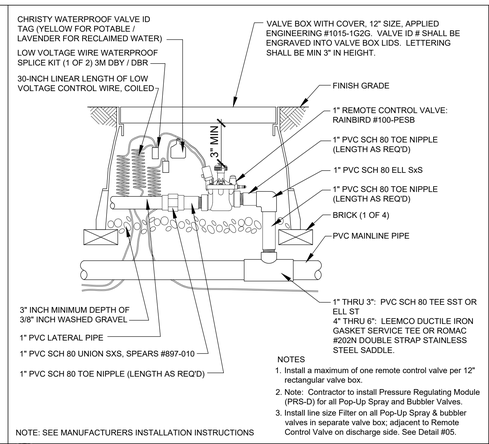
01 4" POP-UP BUBBLER — NTS

SPRINKLER FLOW RATE CHART	
SYMBOL	RESPECTIVE FLOW RATE (GPM)
● ○ ⊕	0.25 GPM, 0.5 GPM, 0.5 GPM
○	2.6 GPM
◔ ◕ ●	0.92 GPM, 1.24 GPM, 1.85 GPM, 3.7 GPM
△	0.65 GPM
▬ ▭	0.61 GPM, 1.21 GPM

LATERAL PIPE SIZING CHART	PIPE SIZE	ALLOWABLE FLOW (GPM)
	3/4"	NOT USED
	1"	0 - 12.0
	1 1/2"	12.1 - 36.0
	2"	36.1 - 55.0
	2 1/2"	55.1 - 80.0

LATERAL PIPE SIZING NOTE: CONTRACTOR TO USE SPECIFIED NOZZLE RATING (GPM) FOR LATERAL PIPE SIZE CALCULATIONS AS SHOWN IN THE SPRINKLER FLOW RATE CHART. FLOW RATINGS (GPM) ARE TO BE USED AT THE 50-60 PSI PRESSURE. FLOW VELOCITIES OF FIVE FEET PER SECOND SHALL NOT BE EXCEEDED. PIPE SIZES NOTED ON THE PLAN SHALL SUPERCEDE CALCULATED PIPE SIZES BY THE CONTRACTOR. LANDSCAPE ARCHITECT TO REVIEW ALL PIPE SIZING IN THE FIELD PRIOR TO BACKFILL OF ANY TRENCHES. CONTRACTOR TO SUBMIT A SHOP DRAWING FOR REVIEW AND APPROVAL PRIOR TO TRENCHING.

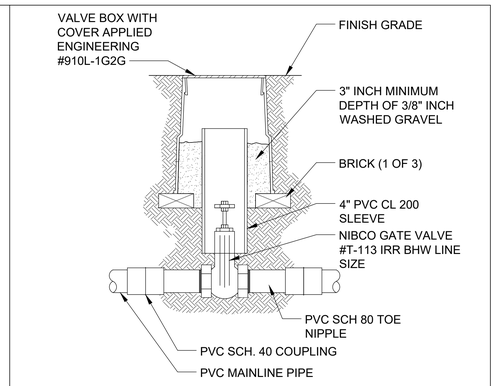
04 LATERAL PIPE SIZING CHART — NTS



NOTES
1. Install a maximum of one remote control valve per 12" rectangular valve box.
2. Note: Contractor to install Pressure Regulating Module (PRS-D) for all Pop-Up Spray and Bubbler Valves.
3. Install line size Filter on all Pop-Up Spray & bubbler valves in separate valve box; adjacent to Remote Control Valve on discharge side. See Detail #05.

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

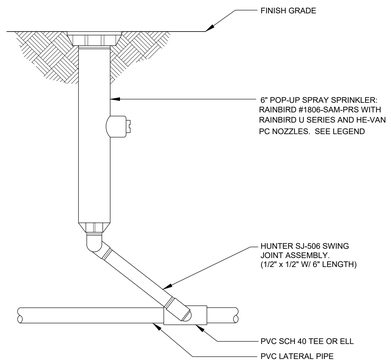
07 1" REMOTE CONTROL VALVE — NTS



(3" GATE VALVES AND SMALLER)

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

10 MAINLINE GATE VALVE (1" THRU 3") — NTS

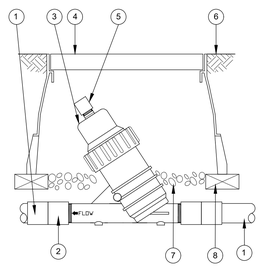


NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

02 6" POP-UP SPRAY SPRINKLER — NTS

FILTER SIZE CHART

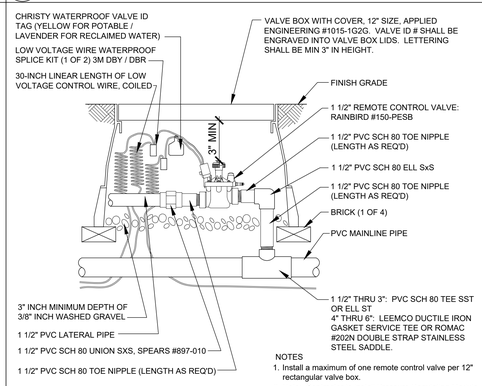
VALVE SIZE	FILTER SIZE	FILTER MODEL
1"	1"	T-ALFD10150-L
1 1/2"	1 1/2"	T-ALFD15150-L



1. PVC LATERAL PIPE
2. PVC SCH 40 FEMALE ADAPTER (1 OF 2), LINE SIZE
3. TORO Y-FILTER WITH 150 MESH DISC ELEMENT FILTER, SAME SIZE AS VALVE.
4. VALVE BOX W/ COVER: 12" SIZE, APPLIED ENGINEERING #1015-1G2G.
5. 3/4" PVC CAP
6. FINISH GRADE
7. 3" MIN DEPTH OF 3/8" WASHED GRAVEL
8. BRICK (1 OF 4)

NOTE: INSTALL LINE SIZE FILTER (SEE FILTER SIZE CHART) ON POP-UP SPRAY AND BUBBLER VALVES IN SEPARATE VALVE BOXES - ADJACENT TO REMOTE CONTROL VALVE. FILTERS ARE TO BE INSTALLED ON DISCHARGE SIDE OF VALVE.

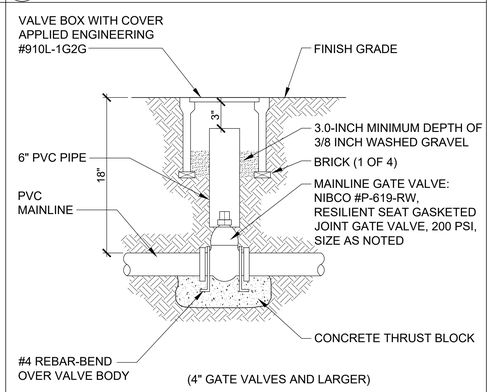
05 1" / 1 1/2" Y FILTER DETAIL — NTS



NOTES
1. Install a maximum of one remote control valve per 12" rectangular valve box.
2. Note: Contractor to install Pressure Regulating Module (PRS-D) for all Pop-Up Spray and Bubbler Valves.
3. Install line size Filter on all Pop-Up Spray & bubbler valves in separate valve box; adjacent to Remote Control Valve on discharge side. See Detail #05.

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

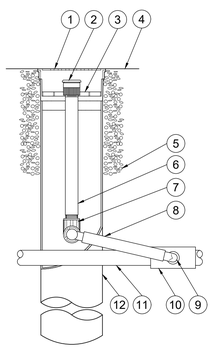
08 1 1/2" REMOTE CONTROL VALVE — NTS



(4" GATE VALVES AND LARGER)

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

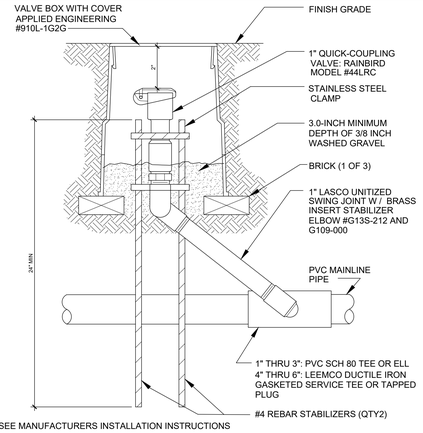
11 MAINLINE GATE VALVE (4" AND LARGER) — NTS



1. 4-INCH GRATE
2. BUBBLER: RAIN BIRD 1402 - 0.5 GPM
3. ROOT WATERING SYSTEM: RAIN BIRD RWS-B-C-1402 (INCLUDES 1402 0.5 GPM BUBBLER WITH RISER, GRATE, SWING ASSEMBLY, 1/2" MALE NPT INLET, AND BASKET CANISTER)
4. FINISH GRADE
5. PEA GRAVEL - 1.0 cu. ft.
6. 1/2-INCH PVC SCH 80 NIPPLE
7. 1/2-INCH 90-DEGREE ELBOW
8. 12-INCH SWING ASSEMBLY
9. 1/2-INCH MALE NPT INLET
10. PVC SCH 40 TEE OR EL
11. LATERAL PIPE
12. 4-INCH BASKET WEAVE CANISTER

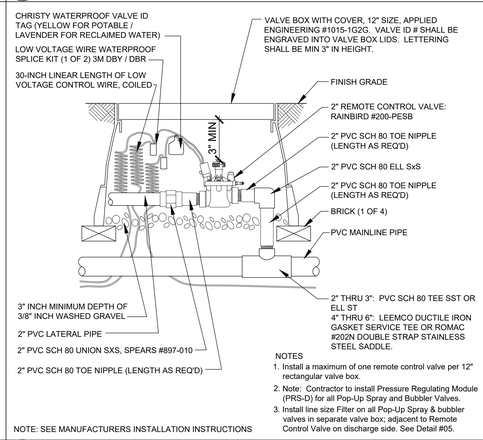
NOTE: INSTALL ROOT WATERING SYSTEM WITH BUBBLER INSIDE THE TREE WATERING BASIN AND INSIDE THE TREE ROOT BARRIER ON THE UPHILL SIDE OF TREE, IF FINISH GRADE IS SLOPED INSTALL RWS-90CK IN SANDY SOILS.

03 ROOT WATERING TREE BUBBLER — NTS



NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

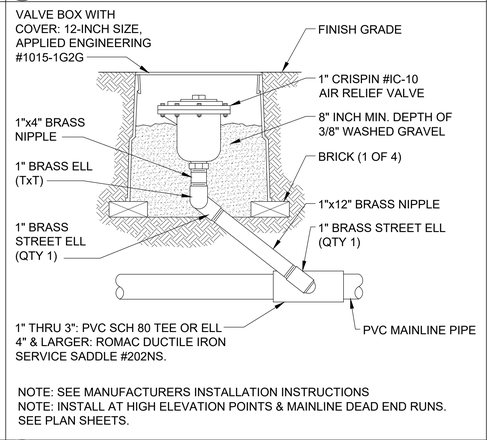
06 QUICK-COUPLING VALVE — NTS



NOTES
1. Install a maximum of one remote control valve per 12" rectangular valve box.
2. Note: Contractor to install Pressure Regulating Module (PRS-D) for all Pop-Up Spray and Bubbler Valves.
3. Install line size Filter on all Pop-Up Spray & bubbler valves in separate valve box; adjacent to Remote Control Valve on discharge side. See Detail #05.

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

09 2" REMOTE CONTROL VALVE — NTS



NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS
NOTE: INSTALL AT HIGH ELEVATION POINTS & MAINLINE DEAD END RUNS. SEE PLAN SHEETS.

12 AIR RELIEF VALVE — NTS

DSA File No.: *15-95*

DSA Application No.: *03-122615*

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

LICENSED LANDSCAPE ARCHITECT — DAVID B. BIGLER — RLA # 3887 — 31 JULY 24 RENEWAL DATE — STATE OF CALIFORNIA

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Consultant

Earl Warren Junior High School
Modernization Phase 1
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

LANDSCAPE & IRRIGATION
DETAILS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
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LICENSED ARCHITECT — MICHAEL K. FERRARO — No. C23724 — Rev. 4-30-23 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

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Designed By: DB
Drawn By: SV
Checked By: DB
Reviewed By: DB

Scale: As Indicated
Project Number: 2228
Date: 05/25/23

SD/L300

L8 Landscape & Irrigation Details

NTS

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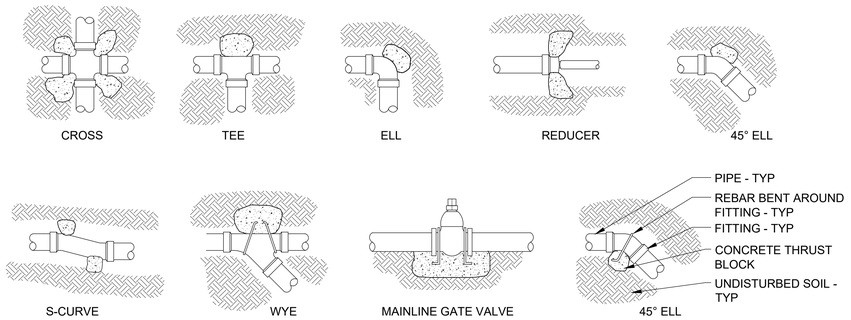
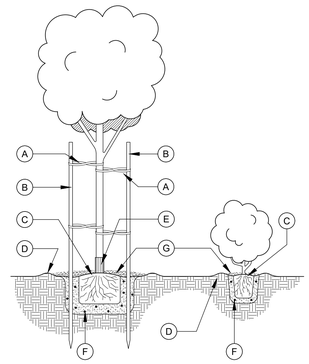


NOTES:
1. SUPPLY LINES 3-INCHES IN DIAMETER AND LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
2. SEE PIPE MANUFACTURERS SPECIFICATIONS FOR AMOUNT OF CONCRETE TO BE USED FOR THRUST BLOCK.
3. INSTALL ALL PIPE IN STRICT ACCORDANCE W/ PIPE MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS.

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

13 THRUST BLOCKS — NTS



KEY NOTES

(A) TREE TIES TO BE APPROVED RUBBER OR PLASTIC STRAPS NAILED TO STAKES

(B) TREATED 2"x10' LODGE POLE STAKE TO BE SET VERTICAL

(C) TOP OF ROOT BALL IS TO BE SET SLIGHTLY ABOVE FINISH GRADE

(D) CONSTRUCT WATER BASIN TO THE DIAMETER NOTED BELOW WITH 3" BERM AROUND PERIMETER. SOFTEN BERM IN TURF AREAS. REMOVE ALL TURF WITHIN BERM AREA IN TURF AREAS

BERM DIAMETER	SIZE OF PLANT
30"	15 GALLON PLANT
36"	24" BOX
16"	5 GALLON PLANT
12"	1 GALLON PLANT

(E) EXPANDABLE STRING TRIMMER TREE BOOT. USE ON TREES INSTALLED IN TURF AREAS ONLY

(F) AGRIFORM PLANT FERTILIZER TABLETS

(G) MULCH AS TOP DRESSING ALL NON TURF LANDSCAPE AREAS WITH WALK ON BARK AS SUPPLIED BY SUPERIOR SOIL SUPPLEMENTS OR INORGANIC MULCH AS SHOWN ON THE LANDSCAPE PLAN. INSTALL TO A COMPACTED DEPTH OF THREE INCHES (3"). DO NOT ENGULF THE STEMS OR TRUNKS OF SHRUBS AND TREES.

PLANTING NOTES

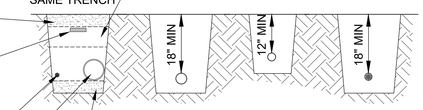
1. ONE DRAINAGE HOLE, MIN. DIAMETER 18", SHALL BE DRILLED FOR EACH TREE TO A MIN. DEPTH OF TEN FEET (10') BACKFILL WITH ORIGINAL SOIL. DRAINAGE HOLE IS TO BE OFF SET FROM THE PLANTING HOLE TO PREVENT SETTLEMENT OF THE TREE OR SHRUB.
2. PLANTING HOLE IS TO BE TWICE THE DIAMETER OF CONTAINER WITH DEPTH EQUAL TO ROOT BALL, PLUS FOUR INCHES. BACKFILL WITH 85% CLEAN NATIVE SOIL MIXED WITH 15% NITRIFIED AGED FIR BARK HUMUS. APPLY AGRIFORM PLANT FERTILIZER TABS TO BACKFILL AS FOLLOWS.

# OF TABS	SIZE OF PLANT
2	1 GALLON SIZE
4	5 GALLON SIZE
6	15 GALLON SIZE
8	24" BOX SIZE
10	36" BOX SIZE

3. PLACE TREE OR SHRUB IN CENTER OF PLANTING HOLE.
4. TAMP BACKFILL TO FORCE OUT ALL AIR POCKETS. FOOT TAMP BACKFILL BELOW ROOT BALL TO PREVENT SETTLEMENT.
5. WATER TREE OR SHRUB IMMEDIATELY AFTER PLANTING
6. DOUBLE STAKE, WITH ONE STAKE TO BE PLACED ON THE WINDWARD SIDE AND THE OTHER PLACED ON THE LEEWARD SIDE OF THE TYPICAL PREVAILING WIND. TOP OF STAKE IS TO BE SIX INCHES BELOW THE BRANCHING POINT OF THE CROWN.

16 TREE AND SHRUB PLANTING DETAIL — NTS

SECTION VIEWS



NO ROCK (3/8") OR LARGER ALLOWED IN BACKFILL.SCREEN BACKFILL WITH ROCK OR IMPORT SELECT ROCK FREE SOIL FOR BACKFILL AS REQUIRED. ALL EXCESS ROCK IS TO BE HAULED OFF SITE AND DISPOSED OF AT CONTRACTORS EXPENCE. MIN 6" HORIZONTAL CLEAR SPACE BETWEEN PVC MAINLINE & ELECT CONDUIT & WIRES.

MAINLINE/CONDUIT AND WIRING IN THE SAME TRENCH

MAINLINE PIPE

LATERAL PIPE

LOW VOLTAGE CONTROL WIRE

SCREENED OR IMPORTED BACKFILL WHERE ROCK IS ENCOUNTERED

FOIL MARKER TAPE OVER IRRIGATION MAINLINE 6" BELOW GRADE

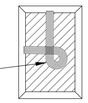
LOW VOLTAGE CONTROL WIRE BUNDLE

PVC MAINLINE PIPE

6" BEDDING OF SCREENED OR IMPORTED BACKFILL BELOW PIPES WHERE ROCK IS ENCOUNTERED

PLAN VIEW

WIRE W/O CONDUIT

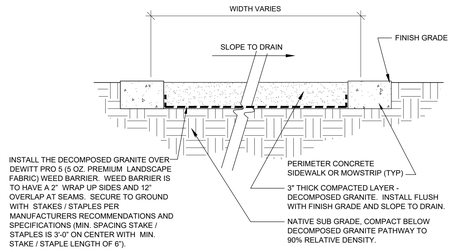


TIE A 24-INCH LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30° OR GREATER UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE

NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCHEDULE 40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN, MIN SLEEVE SIZE IS 2".
2. INSTALL ALL PIPE AND WIRE IN STRICT CONFORMANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

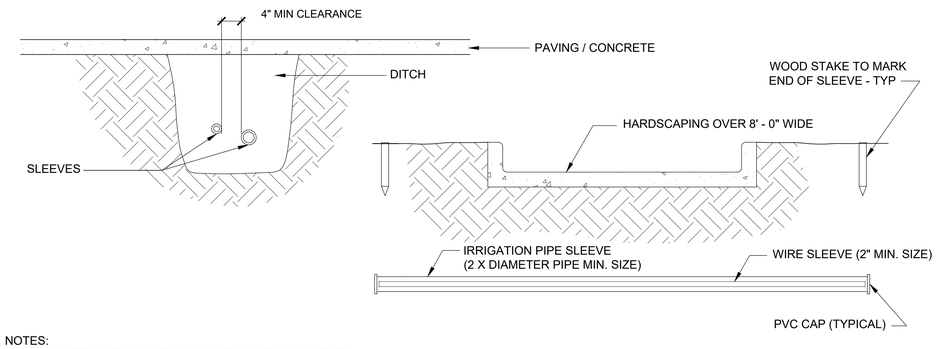
14 TRENCHING DETAIL — NTS



1. CONTRACTOR IS TO FINE GRADE THE ENTIRE SITE AND INSURE THE SITE IS FREE DRAINING.
2. CONTRACTOR IS TO EXCAVATE THE NATIVE SOIL TO A DEPTH OF THREE (3") INCHES WITH CLEAN EDGES. CONTRACTOR IS TO REMOVE SPOILS FROM THE SITE AT NO ADDITIONAL COST TO THE DISTRICT, OR INCORPORATE THEM INTO THE OVERALL GRADING SCHEME. CONTRACTOR IS TO COMPACT THE NATIVE SOIL BELOW THE DECOMPOSED GRANITE AREAS TO 90% RELATIVE DENSITY.
3. CONTRACTOR IS TO IMPORT CLEAN HIGH QUALITY DECOMPOSED GRANITE (GRAY) AND PLACE IT IN WIND ROWS WITHIN THE DESIGNATED AREAS. THE DECOMPOSED GRANITE IS TO BE CAREFULLY SPREAD (DO NOT MIX WITH ADJACENT SOILS), GRADED AND COMPACTED TO A FINAL THICKNESS OF THREE (3").
4. AREA IS TO BE GRADED SO IT DOES NOT IMPEDE SITE DRAINAGE (SITE IS TO BE FREE DRAINING) AND NO WATER IS TO COLLECT OR PUDDLE ON ANY AREA OF THE DECOMPOSED GRANITE.

17 COMPACTED DG - LANDSCAPE AREAS — NTS

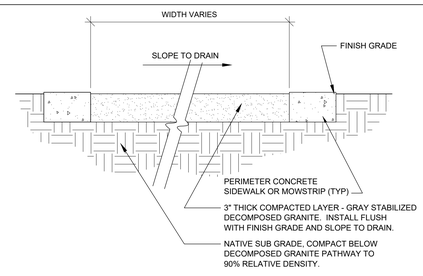
19 NOT USED — NTS



NOTES:
1. ALL PVC IRRIGATION SLEEVES TO BE SCHEDULE 40 PIPE.
2. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
3. IRRIGATION PIPES AND LOW VOLTAGE WIRES ARE TO BE SLEEVED SEPARATELY.
4. ALL PIPES & WIRES ARE TO BE SLEEVED UNDER PAVED/CONC. 8'-0" WIDE OR WIDER. MECHANICALLY COMPACT TO 95% PROCTOR.

NOTE: SEE MANUFACTURERS INSTALLATION INSTRUCTIONS

15 SLEEVING DETAIL — NTS



1. CONTRACTOR IS TO FINE GRADE THE ENTIRE SITE AND INSURE THE SITE IS FREE DRAINING.
2. CONTRACTOR IS TO EXCAVATE THE NATIVE SOIL TO A DEPTH OF THREE (3") INCHES WITH CLEAN EDGES. CONTRACTOR IS TO REMOVE SPOILS FROM THE SITE AT NO ADDITIONAL COST TO THE DISTRICT, OR INCORPORATE THEM INTO THE OVERALL GRADING SCHEME. CONTRACTOR IS TO COMPACT THE NATIVE SOIL BELOW THE DECOMPOSED GRANITE AREAS TO 90% RELATIVE DENSITY.
3. CONTRACTOR IS TO IMPORT CLEAN HIGH QUALITY STABILIZED DECOMPOSED GRANITE (GRAY) AND PLACE IT IN WIND ROWS WITHIN THE DESIGNATED AREAS. THE DECOMPOSED GRANITE IS TO BE CAREFULLY SPREAD (DO NOT MIX WITH ADJACENT SOILS), GRADED AND COMPACTED TO A FINAL THICKNESS OF THREE (3"). SEE LANDSCAPE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
4. AREA IS TO BE GRADED SO IT DOES NOT IMPEDE SITE DRAINAGE (SITE IS TO BE FREE DRAINING) AND NO WATER IS TO COLLECT OR PUDDLE ON ANY AREA OF THE DECOMPOSED GRANITE.

18 STABILIZED DG - SERVICE AREAS — NTS

20 NOT USED — NTS

DSA File No.: *15-95*

DSA Application No.: *03-122615*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

LICENSED LANDSCAPE ARCHITECT — DAVID B. BIGLER — RLA # 3887 — 31 JULY 24 RENEWAL DATE — STATE OF CALIFORNIA

David Bigler Associates
Landscape Architect #3887
516 W. Shaw Avenue, #101
Fresno, California 93704
E Mail: davebigler @aol.com
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Fax: (559) 276-9497

Consultant

Earl Warren Junior High School
Modernization Phase 1
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

LANDSCAPE & IRRIGATION
DETAILS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT — MICHAEL K. FERRARO — No. C23724 — Exp. 4-30-23 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: DB
Drawn By: SV
Checked By: DB
Reviewed By: DB

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Scale: As Indicated
Project Number: 2228
Date: 05/25/23

SD/L301

L9 | Landscape & Irrigation Details
NTS

8/1/2022 1:38:23 PM
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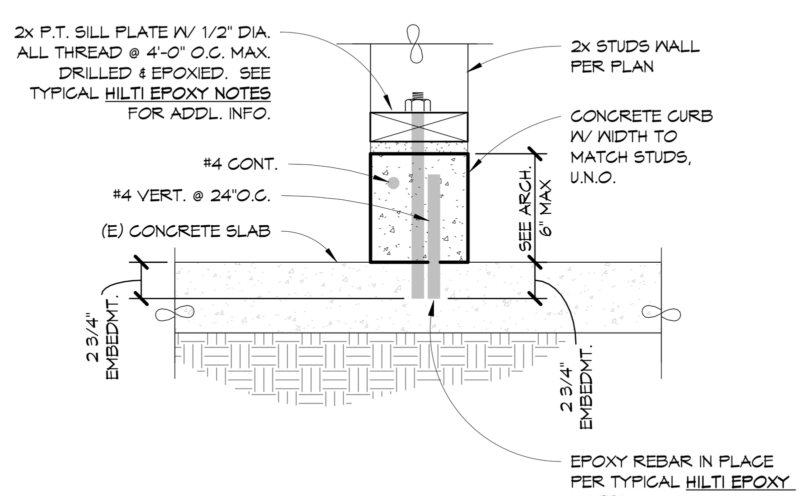
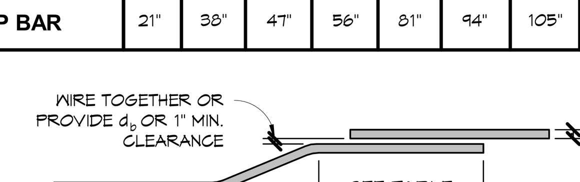
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



N1 RETRO. NON-BEARING WALL CONN.
X/S101 NOT TO SCALE

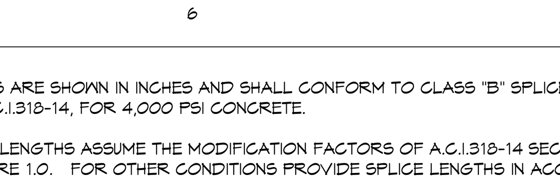
LAP LENGTH (3,000 PSI CONCRETE)									
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
BOTTOM BAR	16"	29"	36"	43"	62"	72"	81"	91"	101"
TOP BAR	21"	38"	47"	56"	81"	94"	105"	118"	131"



NOTES:
1. SPLICES ARE SHOWN IN INCHES AND SHALL CONFORM TO CLASS "B" SPLICES AS PER A.C.I.318-14, FOR 3,000 PSI CONCRETE.
2. SPLICE LENGTHS ASSUME THE MODIFICATION FACTORS OF A.C.I.318-14 SECTIONS 25.1.1 ARE 1.0. FOR OTHER CONDITIONS PROVIDE SPLICE LENGTHS IN ACCORDANCE WITH A.C.I.318-14.
3. USE THE SPLICE LENGTH GIVEN FOR TOP BARS WHEN MORE THAN 12" OF CONCRETE IS CAST BELOW HORIZONTAL BARS IN THE MEMBER. USE THE SPLICE LENGTH GIVEN FOR BOTTOM BARS FOR ALL OTHER CONDITIONS.

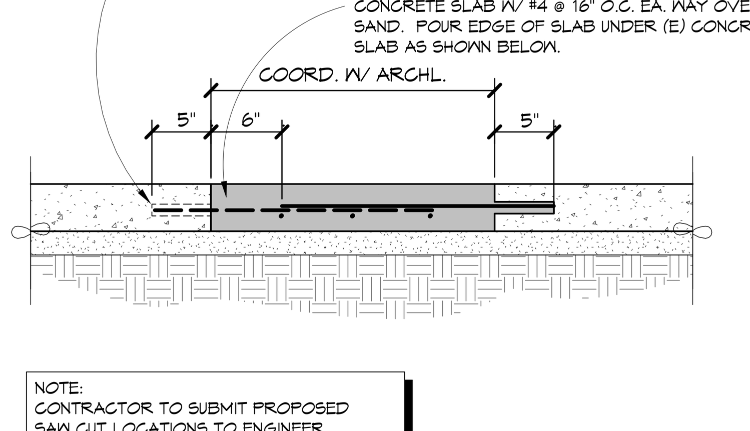
J1 LAP SPLICE SCHEDULE (CONC.)
X/S101 NOT TO SCALE

LAP LENGTH (4,000 PSI CONCRETE)									
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	#10	#11
BOTTOM BAR	16"	25"	31"	38"	55"	62"	70"	79"	87"
TOP BAR	21"	33"	40"	49"	72"	81"	91"	103"	113"



NOTES:
1. SPLICES ARE SHOWN IN INCHES AND SHALL CONFORM TO CLASS "B" SPLICES AS PER A.C.I.318-14, FOR 4,000 PSI CONCRETE.
2. SPLICE LENGTHS ASSUME THE MODIFICATION FACTORS OF A.C.I.318-14 SECTIONS 25.1.1 ARE 1.0. FOR OTHER CONDITIONS PROVIDE SPLICE LENGTHS IN ACCORDANCE WITH A.C.I.318-14.
3. USE THE SPLICE LENGTH GIVEN FOR TOP BARS WHEN MORE THAN 12" OF CONCRETE IS CAST BELOW HORIZONTAL BARS IN THE MEMBER. USE THE SPLICE LENGTH GIVEN FOR BOTTOM BARS FOR ALL OTHER CONDITIONS.

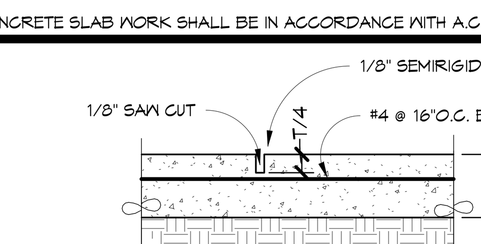
E1 LAP SPLICE SCHEDULE (CONC.)
X/S101 NOT TO SCALE



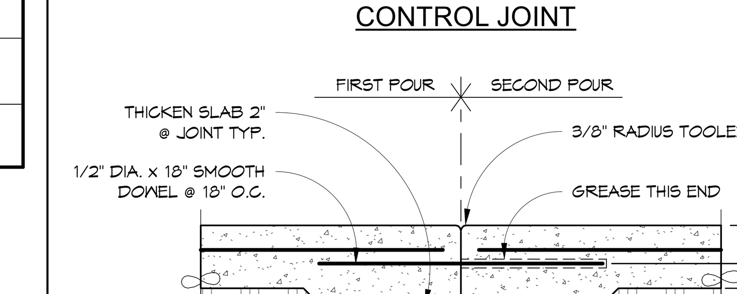
NOTE:
CONTRACTOR TO SUBMIT PROPOSED SAW CUT LOCATIONS TO ENGINEER FOR REVIEW PRIOR TO ANY SAW CUT WORK

A1 SLAB PATCH BACK
X/S101 NOT TO SCALE

NOTES:
1. JOINT SPACING SHALL NOT EXCEED 10 FEET O.C. IN ANY DIRECTION.
2. JOINTS SHALL DIVIDE SLABS INTO AREAS NOT EXCEEDING 100 SQUARE FEET. THESE AREAS SHALL NOT CONTAIN REENTRY CORNERS AND MUST HAVE LENGTH TO WIDTH RATIOS NOT EXCEEDING 1.5 TO 1.0.
3. THE CONTRACTOR SHALL SUBMIT A CONTROL JOINT PLAN FOR APPROVAL PRIOR TO POURING THE CONCRETE SLAB.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE SLAB JOINTS WITH THE LOCATIONS OF TILE CRACK CONTROL JOINTS. VERIFY TILE CRACK CONTROL JOINTS WITH THE ARCHITECT, IF APPLICABLE.
5. CONCRETE SLAB WORK SHALL BE IN ACCORDANCE WITH A.C.I. 302.1R.



CONTROL JOINT



CONSTRUCTION JOINT

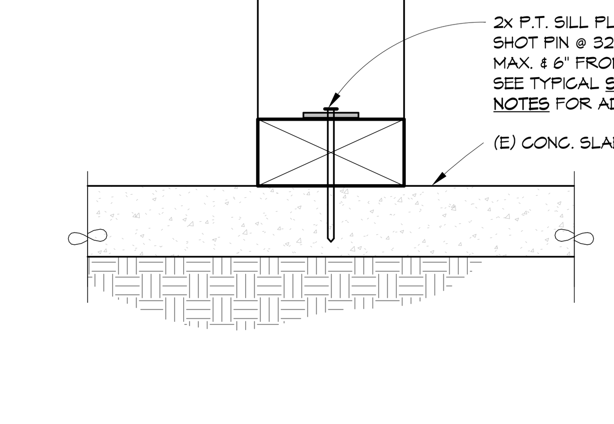
J4 CONCRETE SLAB JOINTS
X/S101 NOT TO SCALE

1. EPOXY SHALL BE HILTI HIT-HY 200 V3 ADHESIVE AS MANUFACTURED BY HILTI, INC., 7250 DALLAS PARKWAY, SUITE 1000, PLANO, TEXAS 75024. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-4868.
2. TEST VALUES AND INSTALLATION REQUIREMENTS SHALL BE AS FOLLOWS:

BAR SIZE	BOLT SIZE	MIN. EMBEDMENT	TEST LOAD (POUNDS)
#4	1/2"	2 3/8"	2731
#5	5/8"	2 3/4"	2424
#6	3/4"	3 1/8"	2345

3. PLACEMENT GUIDELINES FOR ABOVE VALUES IN ITEM 2 REQUIRE THE FOLLOWING CONDITIONS.
   - TABLE VALUES ARE BASED ON f'c = 3000 PSI
   - 6" MIN. EDGE DISTANCE & 12" MIN. BOLT/BAR SPACING
   - HOLES DRILLED WITH A HAMMER DRILL AND CARBIDE BIT
   - BIT DIAMETER EQUALS (BAR DIAMETER) + 1/8"
   - HOLES SHALL BE DRY OR WATER-SATURATED, BUT NOT WATER FILLED
   - MAX. LONG TERM TEMPS OF 110° F OR LESS & MAX. SHORT TERM OF 162° F OR LESS
   - ANY SEISMIC DESIGN CATEGORY PER 2019 C.B.C.
   - A.S.T.M. A615 GRADE 60 REBAR
   - A.S.T.M. A193 GRADE B7 THREADED RODS
   - A.C.I. "CRACKED" CONCRETE CONDITION IS SUFFICIENT
   - DEPTH/THICKNESS OF CONCRETE BEING ATTACHED TO MUST BE AT LEAST 1 1/2" GREATER THAN THE EMBEDMENT DEPTH.
4. WHEN INSTALLING EPOXIED REBAR/BOLTS IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE-INCH BETWEEN THE EXISTING REINFORCEMENT AND THE EPOXIED REBAR/BOLT.
5. ANY REBAR/BOLTS SHOWN ON THE APPROVED PLANS AS BEING EPOXIED, REQUIRES SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 4.4 IN THE I.C.C. REPORT. SPECIAL INSPECTION SHALL BE BY AN APPROVED TESTING AND INSPECTION AGENCY. ANY ITEMS THAT REQUIRE EPOXY BUT ARE NOT SPECIFICALLY SHOWN AS BEING EPOXIED ON THE APPROVED PLANS MUST BE APPROVED BY THE STRUCTURAL ENGINEER AND D.S.A. PRIOR TO INSTALLATION.

E4 HILTI EPOXY NOTES
X/S101 NOT TO SCALE



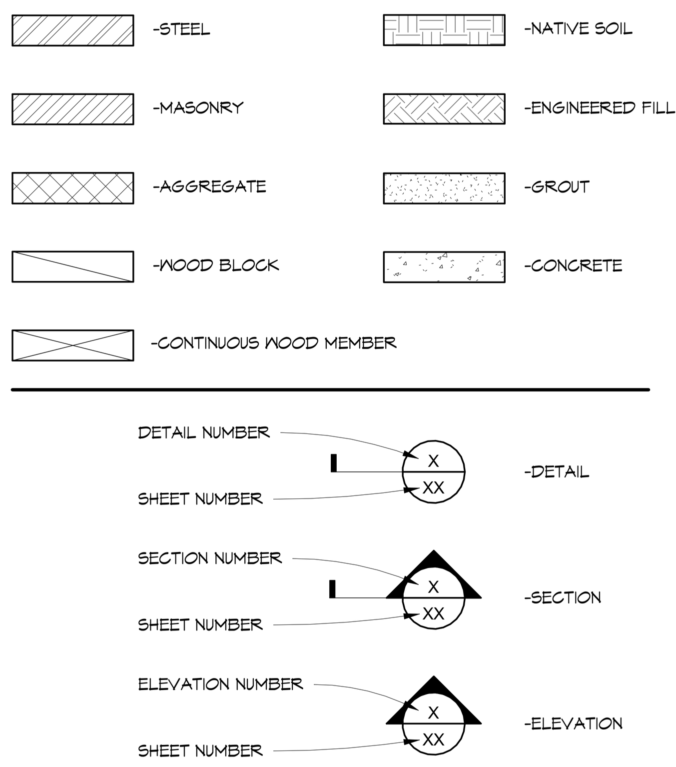
A4 RETRO. NON-BEARING WALL CONN.
X/S101 NOT TO SCALE

1. THESE NOTES GOVERN ALL CONDITIONS CALLED OUT ON THE PLANS AS "SHOT PINS" UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL SHOT PINS SHALL BE AS MANUFACTURED BY HILTI, INCORP. REFERENCE SHALL BE MADE TO THE LATEST EDITION OF THE HILTI 'PRODUCT TECHNICAL GUIDE' AND THE ICC-ES ESR-2269 REPORT FOR ADDITIONAL INFORMATION.
3. SHOT PINS DRIVEN INTO STEEL BASE MATERIAL SHALL BE X-U TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE THROUGH THE STEEL BASE MATERIAL. MINIMUM EDGE DISTANCE TO ANY CONNECTED PART SHALL BE 1/2" AND MINIMUM FASTENER SPACING SHALL BE 2". ENTIRE POINTED END OF PIN MUST PENETRATE THROUGH STEEL LESS THAN 1/2" THICK OR PENETRATE A MINIMUM OF 1/2" INTO STEEL 1/2" THICK OR GREATER. PINS IN STEEL SUBJECT TO WITHDRAW LOADS ARE REQUIRED TO HAVE KNURLED SHANK.
4. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL SHALL BE X-U TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE 1 1/2" INTO THE CONCRETE BASE MATERIAL. MINIMUM EDGE DISTANCE TO ANY CONCRETE MATERIAL SHALL BE 3" AND MINIMUM FASTENER SPACING SHALL BE 4".
5. SHOT PINS DRIVEN INTO CONCRETE BASE MATERIAL THROUGH METAL DECK SHALL BE X-U TYPE WITH P8 WASHERS. LENGTH OF PIN SHALL BE AS REQUIRED TO PENETRATE 1" INTO THE CONCRETE THROUGH THE LOW FLUTE. PIN SHALL BE CENTERED IN THE LOW FLUTE AND MINIMUM FASTENER SPACING SHALL BE 4".
6. WHERE STEEL WASHERS ARE INDICATED ON THE DRAWINGS, PINS SHALL BE X-U WITH PREMOUNTED STEEL WASHERS WITH A MINIMUM DIAMETER OF 36mm (1 7/16").

N7 "SHOT PIN" NOTES FOR HILTI X-U
X/S101 NOT TO SCALE

1. FOUNDATIONS SHALL BEAR ON ENGINEERED FILL OR NATIVE SOIL A MINIMUM OF 18" BELOW ADJACENT GRADE OR FINISHED GRADE
2. MAXIMUM SIZE AGGREGATE SHALL BE AS FOLLOWS:
   - SLAB ON GRADE: 1"
   - FOOTINGS: 1 1/2"
   - COLUMNS & WALLS: 1 1/2"
3. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE AS FOLLOWS:
   - 4000 PSI NORMAL WEIGHT SLAB ON GRADE
   - 4500 PSI NORMAL WEIGHT FOOTINGS
   - 4000 PSI NORMAL WEIGHT CONCRETE COLUMNS & WALLS.
4. MAXIMUM WATER CEMENT RATIOS SHALL BE AS FOLLOWS:
   - 0.45 SLAB ON GRADE
   - 0.45 CONCRETE OVER METAL DECK
   - 0.50 COLUMNS & WALLS
   - 0.58 FOOTINGS· 0.45
5. THE FOLLOWING ARE MINIMUM CONCRETE COVER DIMENSIONS PER A.C.I. 318-14 SECTION 20.6.1. THEY ARE FROM FACE OF REINFORCING STEEL TO FACE OF CONCRETE. ALL REINFORCING STEEL SHALL MAINTAIN THE FOLLOWING CLEAR DISTANCES, U.N.O.
   - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
   - CONCRETE EXPOSED TO EARTH OR WEATHER: (NO. 6 THROUGH NO. 18) 2"
(NO. 5 AND SMALLER) 1 1/2"
   - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALLS AND JOISTS: (NO. 14 AND NO. 18) 1 1/2"
(NO. 11 AND SMALLER) 3/4"
BEAMS AND COLUMNS: (ALL SIZES) 1 1/2"
SHELLS AND FOLDED PLATE MEMBERS: (NO. 6 AND LARGER) 3/4"
(NO. 5 AND SMALLER) 1/2"
   - PLACE REINF. AT MID-THICKNESS FOR SLABS ON GRADE.
6. CONSTRUCTION LOADS SHALL NOT BE PLACED ON NEW CONCRETE CONSTRUCTION, INCLUDING CONCRETE TOPPING ON METAL DECK, FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT OR WITH APPROVAL BY ENGINEER.
7. ALL SPLICES IN CONTINUOUS REINFORCEMENT USED IN WALLS, FOOTINGS, ETC. SHALL HAVE A MINIMUM LAP AS DESCRIBED IN THE TYPICAL LAP SPLICE DETAIL. SPLICES IN ADJACENT BARS SHALL NOT BE LESS THAN 4'-0" APART. VERTICAL WALL BARS SHALL BE SPLICED AT OR NEAR FLOOR LINES. OR WHERE SPECIFICALLY DETAILED TO BE SEPARATED.
8. ALL REINFORCEMENT CROSSING CONSTRUCTION JOINTS SHALL BE CONTINUOUS, OR SHALL BE MADE EFFECTIVELY CONTINUOUS BY USE OF FULLY DEVELOPED LAP SPLICES, DOWELS (WITH LAPPED SPLICES) OR APPROVED COUPLERS.
9. HORIZONTAL CONSTRUCTION JOINTS SHALL HAVE ENTIRE SURFACE REMOVED TO EXPOSE\CLEAN AGGREGATE SOLIDLY EMBEDDED.
10. CONCRETE SHALL NOT BE DROPPED THROUGH REINF. STEEL (AS IN WALL) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES, HOPPERS AND VERTICAL CHUTES OR TRUNKS SHALL BE USED. CHUTES OR TRUNKS SHALL BE OF VARIABLE LENGTHS SO THAT FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED FIVE (5) FEET AND A SUFFICIENT NUMBER OF CHUTES AND TRUNKS SHALL BE USED TO ENSURE THE CONCRETE REMAINS LEVEL AT ALL TIMES.
11. ALL STEEL COLUMN BASE PLATES AND STEEL BEAMS BEARING ON CONCRETE SHALL BEAR UPON 1 1/2" OF NON-SHRINK, 3,000 PSI MIN, GROUT PADS AND LEVELING NUTS, U.N.O.
12. WHERE STEEL MEMBERS BEAR IN CONCRETE OR MASONRY WALLS, OPENINGS SHALL BE DRY-PACKED AFTER STEEL IS IN PLACE.
13. CONTRACTOR SHALL SUBMIT PROPOSED POUR SCHEDULE FOR ENGINEER'S APPROVAL PRIOR TO THE FORMING OR POURING OF ANY CONCRETE WORK.
14. PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE BEAMS, COLUMNS AND WALLS UNLESS NOTED OTHERWISE.
15. THE CONTRACTOR SHALL FURNISH AND INSTALL 1/2" PRE-MOLDED EXPANSION JOINTS IN ALL EXTERIOR WALKS AND SLABS AS INDICATED ON DRAWINGS, BUT IN NO CASE MORE THAN 24'-0" O.C.
16. ALL REINFORCING SHALL CONFORM TO A.S.T.M. A615 AND SHALL BE GRADE 40 FOR #3, GRADE 60 FOR #4 AND LARGER.
17. COLUMN SPIRALS SHALL CONFORM TO "STANDARD SPECIFICATION FOR COLD-DRAWING STEEL FOR CONCRETE REINFORCEMENT" ASTM A82 WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI. FABRICATION SHALL CONFORM TO ACI MANUAL OF STANDARD PRACTICE.
18. WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185.
19. ALL WELDING OF REINFORCING STEEL SHALL BE WITH LOW HYDROGEN ELECTRODES U.N.O. WELDING OF REINFORCING SHALL BE ALLOWED ONLY WHERE DETAILED ON DRAWINGS. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY SPECIFICATIONS A.W.S. D1.4. WELDING SHALL NOT BE DONE WITHIN TWO BAR DIAMETERS OF ANY BENT PORTION OF A BAR WHICH HAS BEEN BENT COLD. WELDING OF CROSSING BARS SHALL NOT BE PERMITTED FOR ASSEMBLY OF REINFORCEMENT UNLESS AUTHORIZED BY THE STRUCTURAL ENGINEER OF RECORD. A.S.T.M. A706 REINFORCING SHALL BE USED FOR ALL REINFORCING THAT IS BEING WELDED.
20. WHERE DRILLED PIERS ARE USED, CONTRACTOR IS RESPONSIBLE TO PROVIDE MEASURES TO DRILL HOLE PER PLANS BY USE OF CASING IF UNFORESEEN SOIL CONDITIONS ARE ENCOUNTERED.

A7 FOUNDATION AND CONC. NOTES
X/S101 NOT TO SCALE



N11 LEGENDS AND SYMBOLS
X/S101 NOT TO SCALE

1. ANY SUBSTITUTIONS FOR STRUCTURAL ITEMS ON APPROVED PLANS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO USE. REVIEW WILL BE BILLED ON A TIME AND MATERIALS BASIS TO CONTRACTOR WITH NO GUARANTEE THE SUBSTITUTION WILL BE ALLOWED.
2. DETAILS AND NOTES ON TYPICAL SHEETS SHALL APPLY U.N.O. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR SIMILAR CONDITIONS. U.N.O.
3. DO NOT SCALE STRUCTURAL DRAWINGS. IF DIMENSIONS IN DRAWINGS ARE NOT CLEAR, OR DISCREPANCIES EXIST ON THE DRAWINGS OR SPECIFICATIONS, CONTACT THE ENGINEER.
4. SEE MECHANICAL, ELECTRICAL, AND/OR ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF PIPES, CONDUITS, FLOOR DRAINS, VENTS, DUCTS, DRAIN LEADERS AND OTHER SIMILAR OPENINGS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
5. SEE MECHANICAL, ELECTRICAL AND/OR ARCHITECTURAL DRAWINGS FOR EMBEDMENT OF BOLTS, ANCHORS AND OTHER MISCELLANEOUS EMBEDDED ITEMS NOT SHOWN ON STRUCTURAL DRAWINGS.
6. THE DESIGN, FABRICATION AND CONSTRUCTION SHALL COMPLY WITH ACCEPTED LOCAL GOVERNING CODES OF THE PARTICULAR AREA.
7. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL SOLELY AND COMPLETELY BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
8. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
9. CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS, BUT THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.
10. ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL ENTITY HAVING JURISDICTION.
11. SHOP DRAWINGS:
   - SHOP DRAWINGS SHALL BE SUBMITTED PER PROJECT SPECIFICATIONS.
   - PRIOR TO SUBMISSION, THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE APPROVED DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE" TO APPROVED CONTRACT DOCUMENTS.
   - THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE DESIGN TEAM THAT HE AND THE SUBCONTRACTOR UNDERSTAND THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE.
   - DESIGN DOCUMENTS ARE NOT SHOP DRAWINGS AND SHALL NOT BE SUBMITTED AS SUCH.
12. ALL NOTES SPECIFIED ON PLANS AND IN DETAILS WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT REFER TO THE TYPICAL PROJECT DETAILS ON S1 SERIES SHEETS. TYPICAL DETAILS ARE NOT SPECIFICALLY REFERENCED ON PLANS AND SPECIFIC DETAIL U.N.O.

E11 GENERAL PROJECT NOTES
X/S101 NOT TO SCALE

A SPECIAL INSPECTOR EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA CODE OF REGULATIONS, TITLE 24 AND SECTION 1704A.2 OF THE 2019 C.B.C. SHALL BE REQUIRED TO INSPECT THE PORTIONS OF THE PROJECT LISTED BELOW. THE SPECIAL INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED BY TITLE 24. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS AS REQUIRED IN SECTION 1704A.2.4 OF THE 2019 C.B.C. AND SUBMIT THEIR REPORTS DIRECTLY TO D.S.A./O.S.H.P.D.

REQUIRED AREAS OF INSPECTION	2019 C.B.C. REFERENCES
· STEEL	SECTIONS 1705A.2.1 & 1705A.12.1 & TABLE 1705A.2.3
· CONCRETE	SECTION 1705A.3 & TABLE 1705A.3
· MASONRY	SECTIONS 1705A.4
-OCCUPANCY CATEGORY I, II OR III	TMS 402/ACI 530/ASCE 5
-OCCUPANCY CATEGORY IV	TMS 602/ACI 530.1/ASCE 6
· WOOD	SECTIONS 1705A.5 & 1705A.11.1/1705A12.2
· SOILS	SECTION 1705A.6 & TABLE 1705A.6
· PILE FOUNDATIONS	SECTION 1705A.7 & TABLE 1705A.7
· PIER FOUNDATIONS	SECTIONS 1705A.8 & TABLE 1705A.8
· POST-INSTALLED ANCHORS	SECTION 1909A.2.7 & I.C.C. E.S.R. REPORTS
· EPOXY ADHESIVES	SECTION 1909A.2.7 & I.C.C. E.S.R. REPORTS

NOTE: FOR SPECIFIC REQUIREMENTS REGARDING SPECIAL INSPECTION FOR D.S.A. PROJECTS, SEE THE TESTING AND INSPECTION FORM FOR THIS PROJECT.

A11 SPECIAL INSPECTION NOTES
X/S101 NOT TO SCALE

CODE
2019 CALIFORNIA BUILDING CODE

RISK CATEGORY — TYPE III

ROOF LOAD
- DEAD LOADS — 20 PSF
- LIVE LOAD — 20 PSF

SEISMIC LOADING CRITERIA
- SEISMIC IMPORTANCE FACTOR — 1.25
- SEISMIC DESIGN CATEGORY — D
- MAPPED SPECTRAL ACCELERATION, MCE:
  - a. Ss — 0.979
  - b. S1 — 0.359
- SPECTRAL RESPONSE COEFFICIENT:
  - a. Fa — 1.2
- MAXIMUM CONSIDERED EARTHQUAKE RESPONSE ACCELERATIONS:
  - a. Sms — 1.175
- DESIGN SPECTRAL RESPONSE ACCELERATIONS:
  - a. Sds — 0.783

WIND LOADING CRITERIA:
- BASIC WIND SPEED — 101 MPH
- EXPOSURE CATEGORY — C
- VELOCITY PRESSURE EXPOSURE COEFFICIENT, Kz — 0.9
- TOPOGRAPHIC FACTOR, Kzt — 1.0

SOIL CRITERIA:
- ALLOWABLE BEARING PRESSURE (DL+LL) — 1500 PSF
- PASSIVE EARTH PRESSURE — 100 PCF
- COEFFICIENT OF FRICTION — 0.25

J14 DESIGN CRITERIA
X/S101 NOT TO SCALE

A.B.	ANCHOR BOLT
ABV.	ABOVE
A.C.I.	AMERICAN CONCRETE INSTITUTE
ADDL.	ADDITIONAL
A.E.S.A.	ARCHITECTURAL EXPOSED STEEL
A.F.P.A.	AMERICAN FOREST AND PAPER ASSOCIATION
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.I.T.C.	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT.	ALTERNATE
A.P.A.	AMERICAN PLYWOOD ASSOCIATION
ARCH.	ARCHITECT(URAL)
A.E.S.S.	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
A.S.C.E.	AMERICAN SOCIETY OF CIVIL ENGINEERS
A.S.T.M.	AMERICAN SOCIETY FOR TESTING & MATERIALS
A.W.S.	AMERICAN WELDING SOCIETY
BLDG.	BUILDING
BLK., BLKG.,	BLOCK, BLOCKING
BM.	BEAM
B.O.	BOTTOM OF
BOT.	BOTTOM
C	CHANNEL
C.B.C.	CALIFORNIA BUILDING CODE
CDX	C-D EXPOSURE 1
C.J.	CONSTRUCTION JOINT
CL	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
CTSK.	COUNTERSINK
d	PENNY NAILS
DBL.	DOUBLE
DEMO.	DEMOLISH
DET., DTL.	DETAIL
DF	DOUGLAS FIR
DIA., Ø	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DL	DEAD LOAD
DO	DITTO / DO OVER
DP	DEEP
D.S.A.	DEPARTMENT OF STATE ARCHITECT
DWG	DRAWING
(E)	EXISTING
EA.	EACH
ELEV.	ELEVATION
E.N.	EDGE NAILING
ENGR.	ENGINEER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EXP.	EXPANSION
E.W.	EACH WAY
FDN.	FOUNDATION
F.E.M.A.	FEDERAL EMERGENCY MANAGEMENT AGENCY
F.F.	FINISH FLOOR
FIN.	FINISH
FLR.	FLOOR
F.N.	FIELD NAILING
FRMG.	FRAMING
FT., FTG.	FOOT, FOOTING
F.V.	FIELD VERIFY
GA.	GAUGE
GALV.	GALVANIZED
GLB	GLUE LAMINATED BEAM
H.D.	HOLDOWN
HDR.	HEADER
HGR.	HANGER
HORIZ.	HORIZONTAL
HSS	HOLLOW STRUCTURAL SECTION
HT.	HEIGHT
I.B.C.	INTERNATIONAL BUILDING CODE
I.C.C.	INTERNATIONAL CODE COUNCIL
IN	INCH
I.D.	INSIDE DIAMETER
INT.	INTERIOR
I.R.	INTERPRETATION OF REGULATIONS
JST.	JOIST
K	KIPS
KSI	KIPS PER SQUARE INCH
L	ANGLE
LBS, #	POUNDS (XXX LBS, XXX#)
LL	LIVE LOAD
LLV(LLH)	LONG LEG VERTICAL (HORIZ.)
LOC.	LOCATION
LSL	LAMINATED STRAND LUMBER
LT. WT.	LIGHT WEIGHT
LVL	LAMINATED VENEER LUMBER
MAS.	MASONRY
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MFR	MANUFACTURER
MIN.	MINIMUM
M.S.R.	MACHINE STRESS RATED
MTL.	METAL
(N)	NEW
NO., #	NUMBER, (NO. XX, #XX)
N.T.S.	NOT TO SCALE
O/, o/	OVER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPNG.	OPENING
OP.	OPPOSITE
OSB	ORIENTED STRAND BOARD
O.S.H.P.D.	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
PL.	PLATE
P.T.	PRESSURE TREATED
PLYWD.	PLYWOOD
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REINF.	REINFORCING
REQD.	REQUIRED
RM.	ROOM
SCHED.	SCHEDULE
SHTG.	SHEATHING
SHT.	SHEET
SIM.	SIMILAR
SMS	SHEET METAL SCREWS
SPEC.	SPECIFICATION
SQ.	SQUARE
STGR.	STAGGER
STD.	STANDARD
STIFF.	STIFFENER
STL.	STEEL
STRUCT.	STRUCTURAL
SYM.	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
THK.	THICK
TL	TOTAL LOAD
T.O.	TOP OF
TYP.	TYPICAL
U.N.O., U.O.N.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W/, W/O	WITH, WITH OUT
WD	WOOD
W.F.	WIDE FLANGE
W.C.L.I.B.	WEST COAST LUMBER INSPECTION BUREAU
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
W.W.A.	WELDED WIRE MESH
W.W.P.A.	WESTERN WOOD PRODUCTS ASSOCIATION

A14 ABBREVIATIONS
X/S101 NOT TO SCALE

DSA File No.:

DSA Application No.:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

BrooksRansom ASSOCIATES
7415 N. PALM AVE. STE 100 | FRESNO, CA 93711
(559) 449-8444 OFFICE | (559) 449-8404 FAX
22532

REGISTERED PROFESSIONAL ENGINEER — GAYLORD R. RANSOM — No. S2386 — EXPIRES — STRUCTURAL — STATE OF CALIFORNIA

Consultant

Earl Warren Junior High School Modernization

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL PROJECT NOTES

Drawing

darden architects — ARCHITECTURE PLANNING INTERIORS — www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT — MICHAEL K. FENNACY — No. C23724 — Ren. 4-30-25 — STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: SOC
Scale: 12" = 1'-0"	Drawn By: SOC
Project Number: 2228	Checked By: SOC
Date: 2023-05-26	Reviewed By SOC

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X/S101

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DSA File No.:

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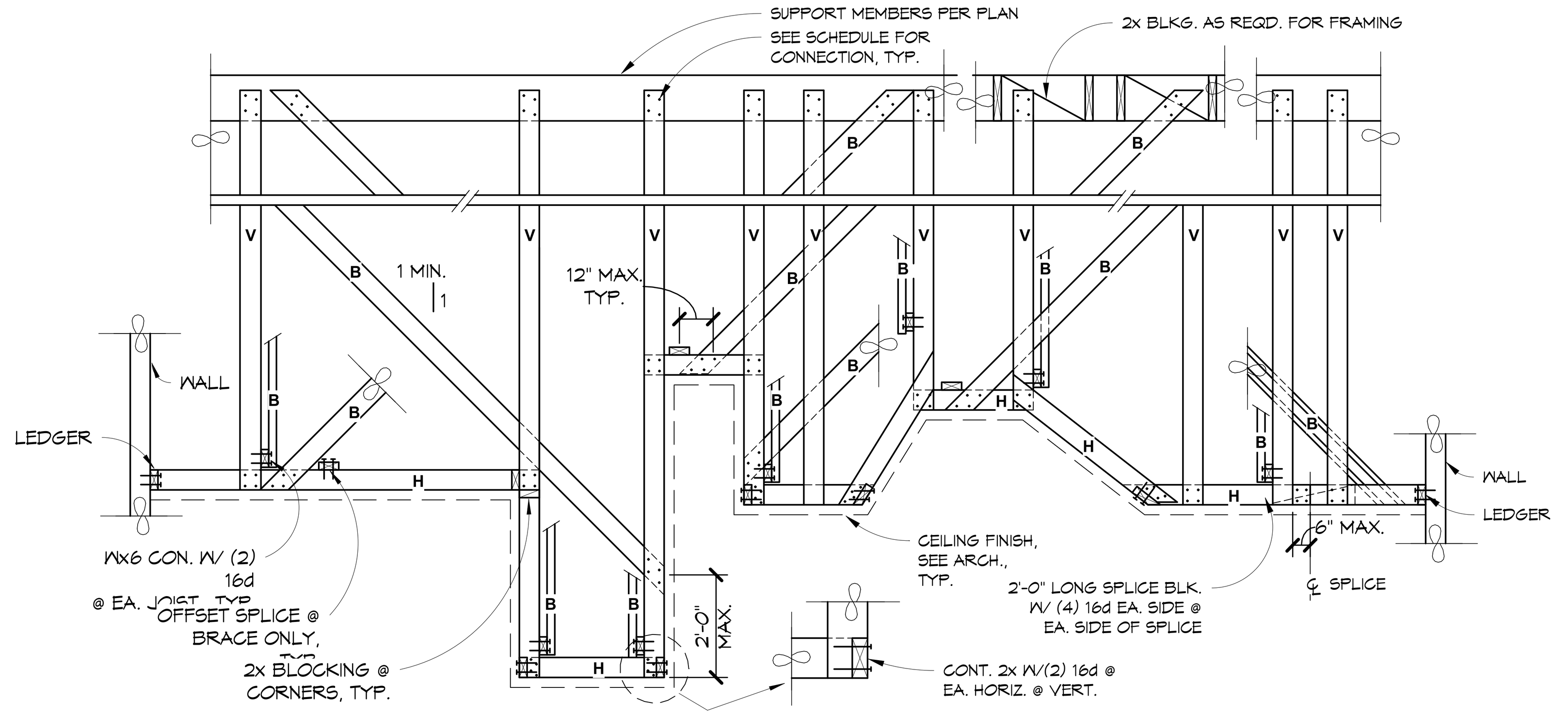
SOFFIT FRAMING SCHEDULE

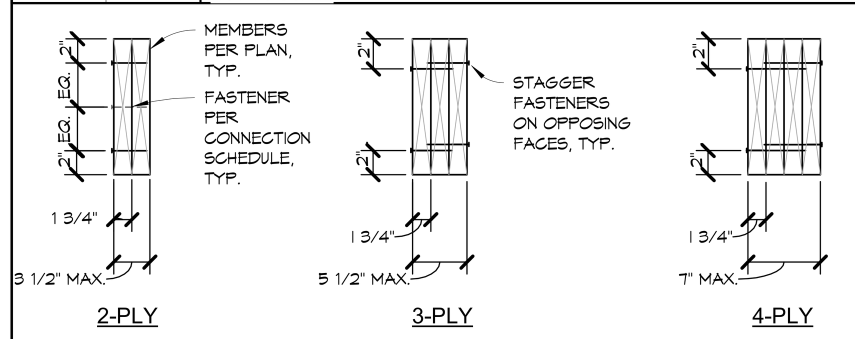
	H	V	B	LEDGER
MAX. O.C. MEMBER SPACING	2'-0"	1033; 1033; 2'-0"	8'-0"	-
MAX. LENGTH OF MEMBER	< 8'-0" 8'-1" TO 12'-0" *	8'-0"	< 6'-0" 6'-1" TO 14'-0" **	-
REQUIRED FASTENERS @ CONNECTIONS	(4) 16d OR SIMPSON 'LUS' HANGER	(4) 16d	(4) 16d	(2) 16d @ 16" O.C. @ WOOD STUDS AND 5/8" DIA. A.B. @ 48" O.C. @ CONC. & MASONRY

SCHEDULE ASSUMES:
- 2x4 DF #2 MEMBERS U.N.O.
- 13.0 PSF D.L. + 10 PSF L.L.
- MAX D.L. DEFLECTION = L/360
- (*) INDICATES 2x6 DF #2 MEMBER REQUIRED.
- (**) INDICATES DBL. 2x4 W/ 16d @ 12" O.C. STITCH NAILING IN 'T' SHAPE REQUIRED.

NOTES:
1. BRACES REQUIRED AT ALL VERTICAL OFFSETS. ALTERNATE DIRECTION OF BRACE WHERE POSSIBLE
2. SEE SCHEDULE FOR SPANS AND CONNECTIONS



N1 SOFFIT FRAMING FOR WOOD CONSTRUCTION
X/S102 NOT TO SCALE

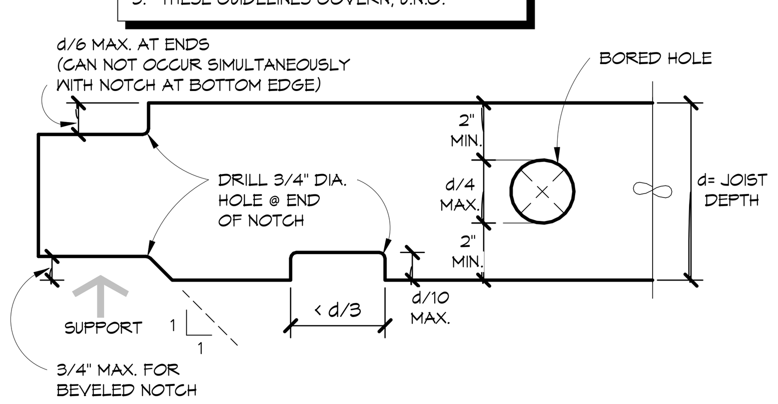


CONNECTION SCHEDULE				
	CONNECTOR TYPE	# OF ROWS	CONNECTOR ON-CENTER SPACING	MEMBER DEPTH
2-PLY	10d	2	12"	5 1/2" TO 9 1/4"
2-PLY	10d	3	12"	9 1/2" TO 11 7/8"
2-PLY	SDS 1/4" x3 1/2"	2	16"	12" TO 18"
3-PLY	SDS 1/4" x3 1/2"	2	16"	7 1/2" TO 18"
4-PLY	SDS 1/4" x 6"	2	16"	7 1/2" TO 18"

NOTES:
1. SIMPSON SDS 1/4 x 3 1/2" CAN BE SUBSTITUTED FOR 10d IN ANY SITUATION.
2. WHERE 2-PLY SITUATION IS ONLY 3" WIDE USE SIMPSON SDS 1/4 x 3" SCREWS

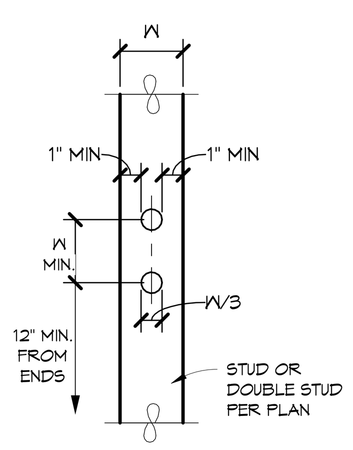
J1 MULTIPLE-MEMBER CONN. FOR WOOD
X/S102 NOT TO SCALE

NOTES:
1. NO NOTCHES SHALL OCCUR IN MEMBERS WITH A WIDTH GREATER THAN 3 1/2".
2. NO NOTCHES SHALL OCCUR IN GLB, LVL, PSL OR LSL, U.N.O.
3. THESE GUIDELINES GOVERN, U.N.O.



LOCATION	MAX BORED HOLE DIAMETER	MAX DEPTH OF NOTCH (TOP OR BOT.)
WITHIN 3d FROM SUPPORT	NOT PERMITTED	d/10
FROM 3d FROM SUPPORT TO 1.3 POINT OF SPAN	d/4	d/10
WITHIN 3d FROM SUPPORT	d/4	NOT PERMITTED

J4 ALLOWABLE NOTCHES AND HOLES
X/S102 NOT TO SCALE



NOTES:
1. HOLES SHALL BE DRILLED.
2. HOLES SHALL BE CENTERED ON STUD/DOUBLE STUD.
3. WHERE THE MIN. 1" EDGE DISTANCE IS NOT MAINTAINED A SIMPSON HSS IS REQUIRED. SEE LATEST EDITION OF SIMPSON CATALOG FOR INSTALLATION INFORMATION.
4. MAX DIAMETER OF HOLE MAY BE INCREASED FROM W/3 TO 2W/3 IF STUD IS DOUBLED, AND NOT MORE THAN 2 SUCCESSIVE DOUBLED STUDS ARE DRILLED.

J7 HOLES IN WOOD STUDS
X/S102 NOT TO SCALE

NAILING SCHEDULE [n]

#	CONNECTION	FASTENING [a,g,h,i]		LOCATION
1.	JOIST TO SILL OR GIRDER	3 - 8d		TOENAIL
2.	BRIDGING TO JOIST	2 - 8d		TOENAIL EACH END
3.	1"x6" SUBFLOOR OR LESS TO EACH JOIST	2 - 8d		FACE NAIL
4.	1"x6" SUBFLOOR OR GREATER TO EACH JOIST	3 - 8d		FACE NAIL
5.	2" SUBFLOOR TO JOIST OR GIRDER	2 - 16d		BLIND & FACE NAIL
6.	SOLE PLATE TO JOIST OR BLOCKING	16d @ 16" O.C.		TYPICAL FACE NAIL
	SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3 - 16d @ 16"O.C.		BRACED WALL PANELS
7.	TOP PLATE TO STUD	2- 16d		END NAIL
8.	STUD TO SOLE PLATE	4 - 8d 2 - 16d		TOENAIL END NAIL
9.	DOUBLE STUDS	16d @ 24" O.C.		FACE NAIL
10.	DOUBLE 2x TOP PLATE	16d @ 16" O.C. 8 - 16d		FACE NAIL LAP SPLICE
	3x TOP PLATE OVER 2X PLATE	20d @ 16"O.C. 8 - 20d		FACE NAIL LAP SPLICE
11.	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3 - 8d		TOENAIL
12.	RIM JOIST TO TOP PLATE	8d @ 6" O.C.		TOENAIL
13.	TOP PLATES, LAPS & INTERSECTIONS	2 - 16d		FACE NAIL
14.	CONTINUOUS HEADER, TWO PIECES	16d		16" O.C. @ EDGE
15.	CEILING JOISTS TO PLATE	3 - 8d		TOENAIL
16.	CONTINUOUS HEADER TO STUD	4 - 8d		TOENAIL
17.	CEILING JOISTS LAPS OVER PARTITIONS	3 - 16d MIN. TABLE 2308.10.4.1		FACE NAIL
18.	CEILING JOISTS TO PARALLEL RAFTERS	3 - 16d TABLE 2308.10.4.1		FACE NAIL
19.	RAFTER TO PLATE	3 - 8d		TOENAIL
20.	1" DIAGONAL BRACE TO EACH STUD AND PLATE	2 - 8d		FACE NAIL
21.	1"x8" SHEATHING TO EA. BEARING	3 - 8d		FACE NAIL
22.	WIDER THAN 1"x8" SHEATHING TO EACH BEARING	3 - 8d		FACE NAIL
23.	BUILT-UP CORNER STUDS	16d		24" O.C.
24.	BUILT-UP GIRDER AND BEAMS	20d @ 32" O.C.		FACE NAIL @ TOP AND BOT. STAG. ON OPPOSITE SIDES
		2 - 20d		FACE NAIL @ ENDS AND @ EA. SPLICE
25.	2" PLANKS	16d		@ EACH BEARING
26.	COLLAR TIE TO RAFTER	3 - 10d		FACE NAIL
27.	JACK RAFTER TO HIP	3 - 10d 2 - 16d		TOENAIL FACE NAIL
28.	ROOF RAFTER TO 2x RIDGE BEAM	2 - 16d 2 - 16d		TOENAIL FACE NAIL
29.	JOIST TO BAND JOIST	3 - 16d		FACE NAIL
30.	LEDGER STRIP	3 - 16d		FACE NAIL
31.	WOOD STRUCTURAL PANELS AND PARTICLEBOARD, SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)[b]	1/2" & LESS 19/32" to 3/4" 7/8" to 1" 1 1/8" to 1 1/4"	6d [f] 8d, 6d 8d 10d, 8d	-
	SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)[b]	3/4" & LESS 7/8" to 1" 1 1/8" to 1 1/4"	6d 8d 10d / 8d	-
32.	PANEL SIDING (TO FRAMING)	1/2" & LESS 5/8"	6d[c] 8d[c]	-
33.	FIBERBOARD SHEATHING[d]	1/2" 25/32"	6d 8d	-
34.	INTERIOR PANELING[e]	1/4" to 3/8"	6d	-

a. COMMON NAILS ARE REQUIRED TO BE USED U.N.O. COMMON NAIL PROPERTIES ARE AS FOLLOWS:
- 6d = 0.113"Φ x 2" LONG
- 8d = 0.131"Φ x 2 1/2" LONG
- 10d = 0.148"Φ x 3" LONG
- 16d = 0.162"Φ x 3 1/2" LONG
- 20d = 0.192"Φ x 4" LONG

b. NAILS SPACED AT 6" O.C. AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305.
c. CORROSION-RESISTANT SIDING (6d - 1 7/8"x0.106"; 8d - 2 3/8"x0.128") OR CASING (6d - 2"x0.099"; 8d - 2 1/2"x0.113") NAIL.
d. FASTENERS SPACED 3" O.C. AT EXTERIOR EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6" O.C. E.N. & 12" O.C. F.N. FOR NONSTRUCTURAL APPLICATIONS.
e. NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
f. ROOF SHEATHING APPLICATIONS, 8d ARE THE MINIMUM REQUIRED FOR WOOD STRUCTURAL PANELS.
g. NAILING DRIVEN INTO PRESERVATIVE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED OR EQUIVALENT.
h. THIS SCHEDULE WILL GOVERN UNLESS NOTED OTHERWISE ON PLANS.
i. FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, WITH COATING PER A.S.T.M. A153.

E11 NAILING SCHEDULE PER C.B.C.
X/S102 NOT TO SCALE

1. ALL BOLTS SHALL BE MACHINE MADE TYPE F1554 GRADE 36 U.N.O.
2. BOLT HOLES IN WOOD SHALL BE OVERSIZED BY NOT MORE THAN 1/32".
3. ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH STANDARD STEEL WASHERS UNDER HEAD AND NUTS WHICH BEAR ON WOOD ACCORDING TO THE WASHER SCHEDULE BELOW, U.N.O.

WASHER SCHEDULE

BOLT SIZE	STEEL PLATE SQUARE	MALLEABLE IRON ROUND	STANDARD CUT WASHER
1/2"Φ	2 x 2 x 1/4"	2 1/2"Φ x 1/4"	1 3/8"Φ x 7/64"
5/8"Φ	2 1/2 x 2 1/2 x 1/4"	2 3/4"Φ x 5/16"	1 3/4"Φ x 1/8"
3/4"Φ	3 x 3 x 5/16"	3"Φ x 3/8"	2"Φ x 5/32"
7/8"Φ	3 1/2 x 3 1/2 x 5/8"	3 1/2"Φ x 7/16"	2 1/4"Φ x 11/64"
1"Φ	3 3/4 x 3 3/4 x 7/16"	4"Φ x 1/2"	2 1/2"Φ x 11/64"
1 1/8"Φ	4 x 4 x 7/16"	4 1/2"Φ x 9/16"	2 3/4"Φ x 11/64"
1 1/2"Φ	4 1/4 x 4 1/4 x 1/2"	5"Φ x 5/8"	3 1/2"Φ x 3/16"

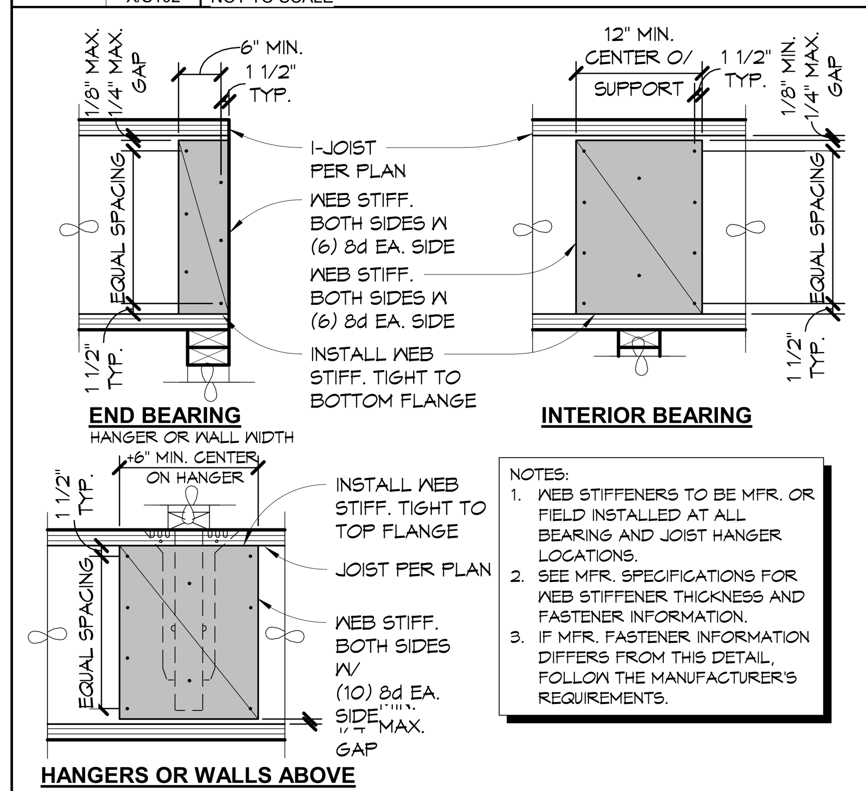
4. BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
5. ANCHOR AND/OR SILL BOLTS WITH UPSET THREADS ARE NOT PERMITTED.
6. ALL SILL PLATES SHALL BE BEDDED ON 1/2" CEMENT GROUT EXCEPT FOR NON-BEARING INTERIOR WALLS ON TRUE AND LEVEL FLOORS.
7. SILL PLATES UNDER ALL EXTERIOR AND BEARING WALLS SHALL BE BOLTED TO MASONRY OR CONCRETE WITH 5/8"Φ x 12" BOLTS SPACED NOT MORE THAN 6'-0" ON CENTER, WITH A MIN. OF 2 BOLTS FOR EACH PIECE OF SILL PLATE, U.N.O. SHEAR WALLS ABOVE 2 STORIES SHALL HAVE BOLTS SPACED NOT MORE THAN 4'-0" O.C., U.N.O. ALL SILL PLATE ANCHOR BOLTS SHALL HAVE MINIMUM 4" SQ. x 1/4" SLOTTED PLATE WASHERS (OR SIMPSON BPS) WITH A STANDARD CUT WASHER PLACED BETWEEN THE PLATE WASHER AND THE NUT, U.N.O. THE PLATE WASHER SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE(S) WITH SHEATHING.
8. ALL ANCHOR BOLTS IN WOOD SHALL BE SPACED 4 INCH MINIMUM AND 12 INCH MAXIMUM FROM END OF THE SILL PLATE, AND HAVE 7 INCH MINIMUM EMBEDMENT INTO CONCRETE OR MASONRY. ANY LOCATION WHERE A HOLE OR NOTCH LARGER THAN THE SILL PLATE THICKNESS OCCURS, SHALL HAVE ADDITIONAL ANCHOR BOLTS PLACED 4 INCHES TO 12 INCHES ON EACH SIDE OF THE HOLE OR NOTCH.
9. SILL PLATES AT ALL EXTERIOR WALLS AND INTERIOR WALLS THAT ARE COVERED WITH STRUCTURAL PLYWOOD (SHEAR PANEL) SHALL BE PRESERVATIVE-TREATED D.F. 3x THICK WITH THE SAME WIDTH AS STUDS, U.N.O. ALL OTHER WALLS THE SAME EXCEPT SILL PLATES MAY BE 2x THICK. ALL PRESERVATIVE-TREATED D.F. SHALL BEAR THE AWPB QUALITY MARK. ALL CUTS OR HOLES SHALL BE PRE-TREATED PRIOR TO INSTALLATION.
10. NO SILL PLATE PIECE SHALL END WITHIN THE LENGTH OF SHEAR PANEL UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE PLANS.
11. ALL EXPOSED FASTENERS SHALL HAVE ZINC-COATING CORROSION RESISTANCE.
12. ALL FASTENERS AND HARDWARE IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE RETARDANT WOOD SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. THE COATING WEIGHT FOR ZINC-COATED FASTENERS SHALL BE IN ACCORDANCE WITH A.S.T.M. A 153. EXCEPTION: FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH A.S.T.M. B 695, CLASS 55 MIN.
13. BEARING WALLS AND PARTITIONS SHALL HAVE DOUBLE TOP PLATES.
14. ALL FASCIA BOARDS MUST BE CONTINUOUS WITH NO SPLICES ALLOWED WITHIN 12'-0" MINIMUM FROM FRAMING CORNERS, UNLESS NOTED OTHERWISE.
15. PLYWOOD NOTES:
- IN HORIZONTAL PLYWOOD DIAPHRAGMS, NO PANEL LESS THAN 24" WIDE SHALL BE USED. IN VERTICAL PLYWOOD SHEAR WALLS, NO PANEL LESS THAN 12" WIDE SHALL BE USED. PLYWOOD SHEETS SHALL NOT BE LESS THAN 8 SQUARE FEET AT ANY LOCATION. PROVIDE FULL SHEETS OF PLYWOOD WHEREVER POSSIBLE.
- ANY PIECE OF PLYWOOD SPANNING ACROSS FEWER THAN 3 SUPPORTS SHALL BE BLOCKED ON ALL EDGES.
- SHEAR WALL PLYWOOD SHALL BE BLOCKED AT ALL EDGES.
- DIAPHRAGM AND SHEAR WALL NAILING SHALL CONFORM TO SECTION 2306.3 OF C.B.C. 2019.
- NAILS SHALL NOT BE OVER DRIVEN AS TO CAUSE CRUSHING OF FACEPLY.
- WHERE GLUING OF PLYWOOD IS REQUIRED, INSURE THAT CONTACT SURFACES ARE FREE OF DIRE, DUST, STANDING WATER OR OTHER DELETERIOUS MATTER. APPLY A BEAD OF GLUE ABOUT 1/4 INCH IN DIAMETER TO ALL CONTACT/ BEARING SURFACES. ON WIDE AREAS, APPLY GLUE IN SERPENTINE PATTERN. APPLY TWO BEADS OF GLUE ON JOISTS WHERE PANEL ENDS BUTT TO EACH OTHER. APPLY GLUE PROGRESSIVELY TO BUTTING EDGES OF PANELS AND INTO THE GROOVED EDGES OF TONGUE AND GROVE PANELS AS WORK PROGRESSES. ADHESIVE SHALL CONFORM TO A.P.A. SPEC AFG-01.

15. ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
- DOUGLAS FIR - LARCH . . . . . . WCLIB OR WWPA RULES
- PLYWOOD . . . . U.S. PRODUCT STANDARD PS1-07 FOR SOFTWOOD PLYWOOD

16. MINIMUM GRADES SHALL BE AS FOLLOWS U.N.O. ON DRAWINGS:
- STRUCTURAL FRAMING. . . . . DF NO. 1 OR BETTER
- 4x AND LARGER AND POST. . . . . DF NO. 1 OR BETTER
- STRUCTURAL PLYWOOD. . . . . . . PLYWOOD SHEATHING, GROUP 1, EXP. 1, U.N.O.

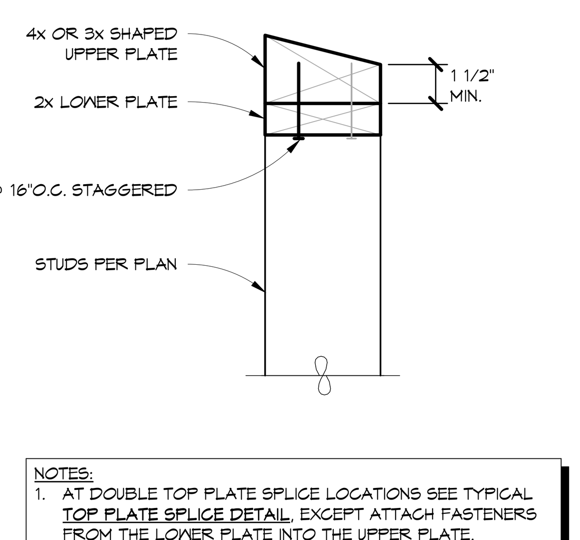
18. PREDRILL HOLES WHERE WOOD TENDS TO SPLIT.
19. WHERE LAG SCREWS ARE INDICATED, PROVIDE A FULL BODY DIAMETER LAG SCREW. THE SHANK SHALL EXTEND BEYOND THE ADJOINING MEMBER PLANE, U.N.O. LAG SCREWS SHALL NOT HAVE UPSET THREADS OR REDUCED BODY.
20. FOR LAG SCREWS, LEAD HOLE FOR THE UNTHREADED PORTION SHALL HAVE A DIAMETER EQUAL TO THE SHANK DIAMETER AND THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 65% OF THE SHANK DIAMETER. MINIMUM PENETRATION (NOT INCLUDING THE LENGTH OF TAPERED TIP) OF THE LAG SCREW INTO MAIN MEMBER SHALL BE EIGHT TIMES THE DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER DIAMETER LAG SCREWS PROVIDED THAT EDGE DISTANCES, END DISTANCES, AND SPACING ARE SUFFICIENT TO PREVENT UNUSUAL SPLITTING.
21. SEE NAILING SCHEDULE FOR MINIMUM NAILING REQUIREMENTS.
22. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND D.S.A./O.S.H.P.D. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MIN. ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

E14 WOOD NOTES
X/S102 NOT TO SCALE



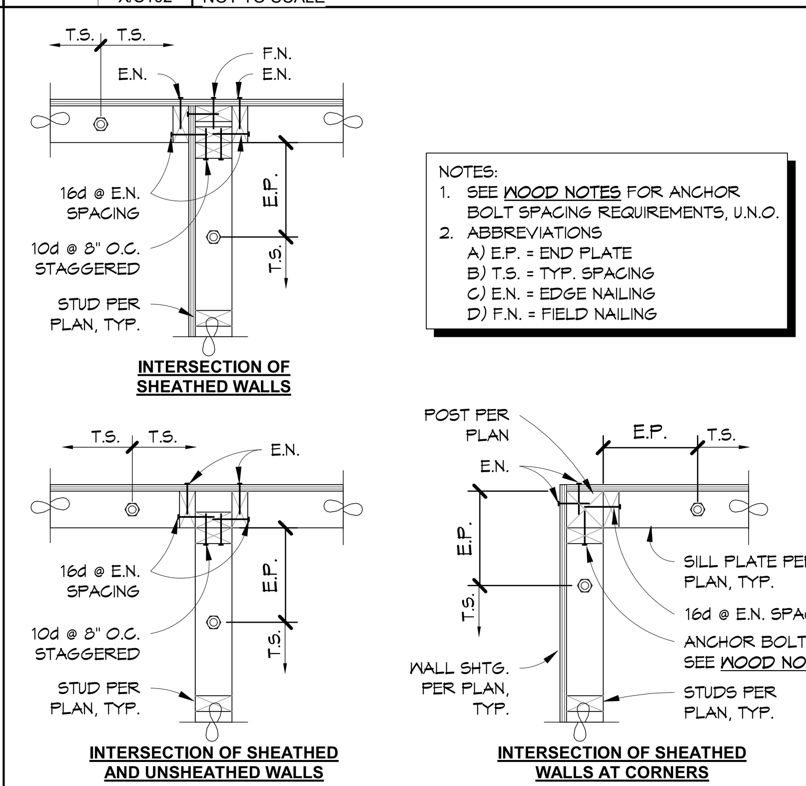
NOTES:
1. WEB STIFFENERS TO BE MFR. OR FIELD INSTALLED AT ALL BEARING AND JOIST HANGER LOCATIONS.
2. SEE MFR. SPECIFICATIONS FOR WEB STIFFENER THICKNESS AND FASTENER INFORMATION.
3. IF MFR. FASTENER INFORMATION DIFFERS FROM THIS DETAIL, FOLLOW THE MANUFACTURER'S REQUIREMENTS.

E1 I-JOIST WEB-STIFFENERS
X/S102 NOT TO SCALE



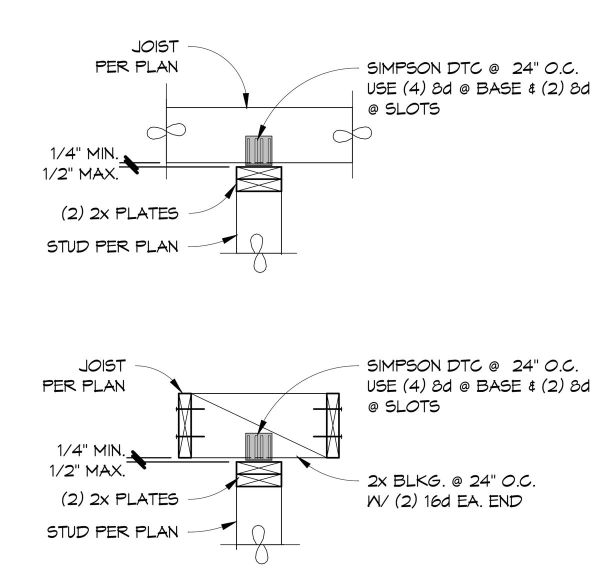
NOTES:
1. AT DOUBLE TOP PLATE SPLICE LOCATIONS SEE TYPICAL TOP PLATE SPLICE DETAIL, EXCEPT ATTACH FASTENERS FROM THE LOWER PLATE INTO THE UPPER PLATE.
2. PLYWOOD SHEATHING NOT SHOWN FOR CLARITY.

E4 SHAPED TOP PLATE
X/S102 NOT TO SCALE



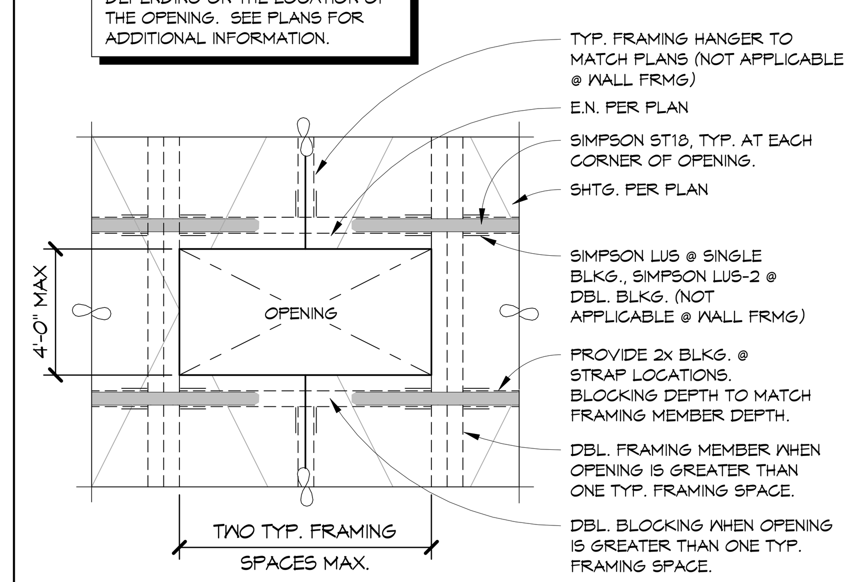
NOTES:
1. SEE WOOD NOTES FOR ANCHOR BOLT SPACING REQUIREMENTS, U.N.O.
2. ABBREVIATIONS
A) E.P. = END PLATE
B) T.S. = TYP. SPACING
C) E.N. = EDGE NAILING
D) F.N. = FIELD NAILING

E7 STUD WALL FRAMING AT CORN. AND INT.
X/S102 NOT TO SCALE

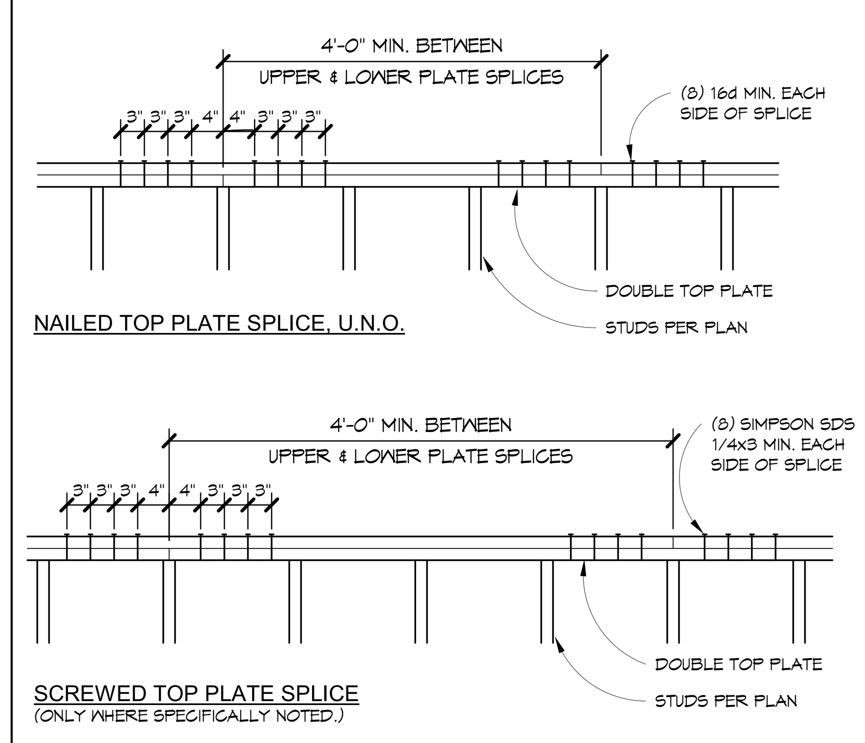


A1 NON-BEARING WALL CONNECTION
X/S102 NOT TO SCALE

NOTES:
FRAMING MEMBERS CAN BE EITHER RAFTERS, JOISTS OR STUDS DEPENDING ON THE LOCATION OF THE OPENING. SEE PLANS FOR ADDITIONAL INFORMATION.



A4 BLOCKING AROUND OPENING
X/S102 NOT TO SCALE



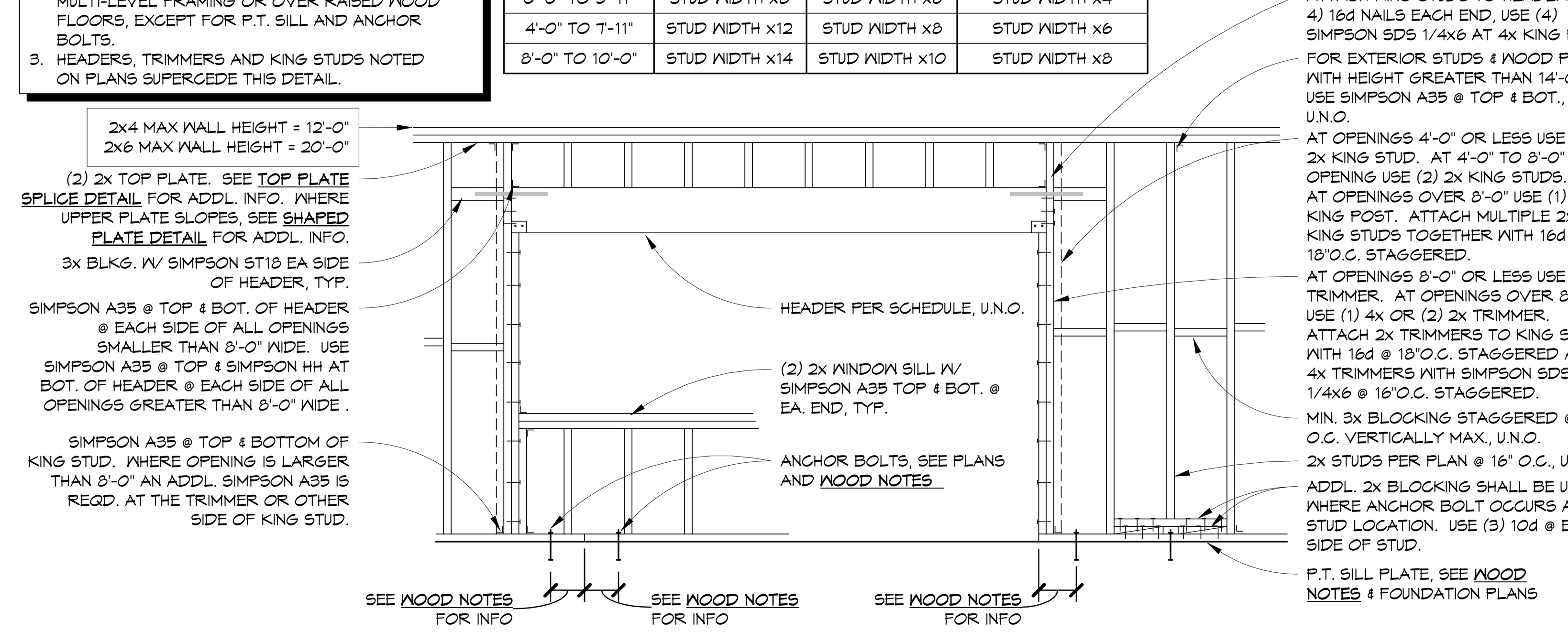
A7 TOP PLATE SPLICES FOR WOOD
X/S102 NOT TO SCALE

NOTES:
1. WHERE METAL FASTENERS AND HARDWARE ARE IN CONTACT WITH PRESERVATIVE-TREATED WOOD, SEE WOOD NOTES FOR ADDITIONAL REQUIREMENTS.
2. ALL WALL FRAMING REQUIREMENTS APPLY AT MULTI-LEVEL FRAMING OR OVER RAISED WOOD FLOORS, EXCEPT FOR P.T. SILL AND ANCHOR BOLTS.
3. HEADERS, TRIMMERS AND KING STUDS NOTED ON PLANS SUPERCEDE THIS DETAIL.

TYPICAL HEADER SIZE FOR OPENINGS, U.N.O.

OPENING WIDTH	2x4 LOAD BEARING WALL	2x6 LOAD BEARING WALL	NON-LOAD BEARING WALL PARTITIONS
0'-0" TO 3'-11"	STUD WIDTH x8	STUD WIDTH x6	STUD WIDTH x4
4'-0" TO 7'-11"	STUD WIDTH x12	STUD WIDTH x8	STUD WIDTH x6
8'-0" TO 10'-0"	STUD WIDTH x14	STUD WIDTH x10	STUD WIDTH x8

SEE DETAIL A1 / X/S102 FOR CONDITION AT TOP OF WALL
SEE DETAIL A4 / X/S101 FOR CONDITION AT BASE OF WALL



A11 WALL FRAMING AT OPNGS. FOR WOOD FRAMING
X/S102 NOT TO SCALE

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22532
REGISTERED PROFESSIONAL ENGINEER SAYLORD R. RANSOM No.S2386 EXPIRES STRUCTURAL STATE OF CALIFORNIA

Consultant

Earl Warren Junior High School Modernization

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL WOOD NOTES & DETAILS

Drawing

darden architects
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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: SOC	Copyright Darden Architects
Scale: 12" = 1'-0"	Drawn By: SOC	X/S102
Project Number: 2228	Checked By: SOC	
Date: 2023-05-26	Reviewed By SOC	

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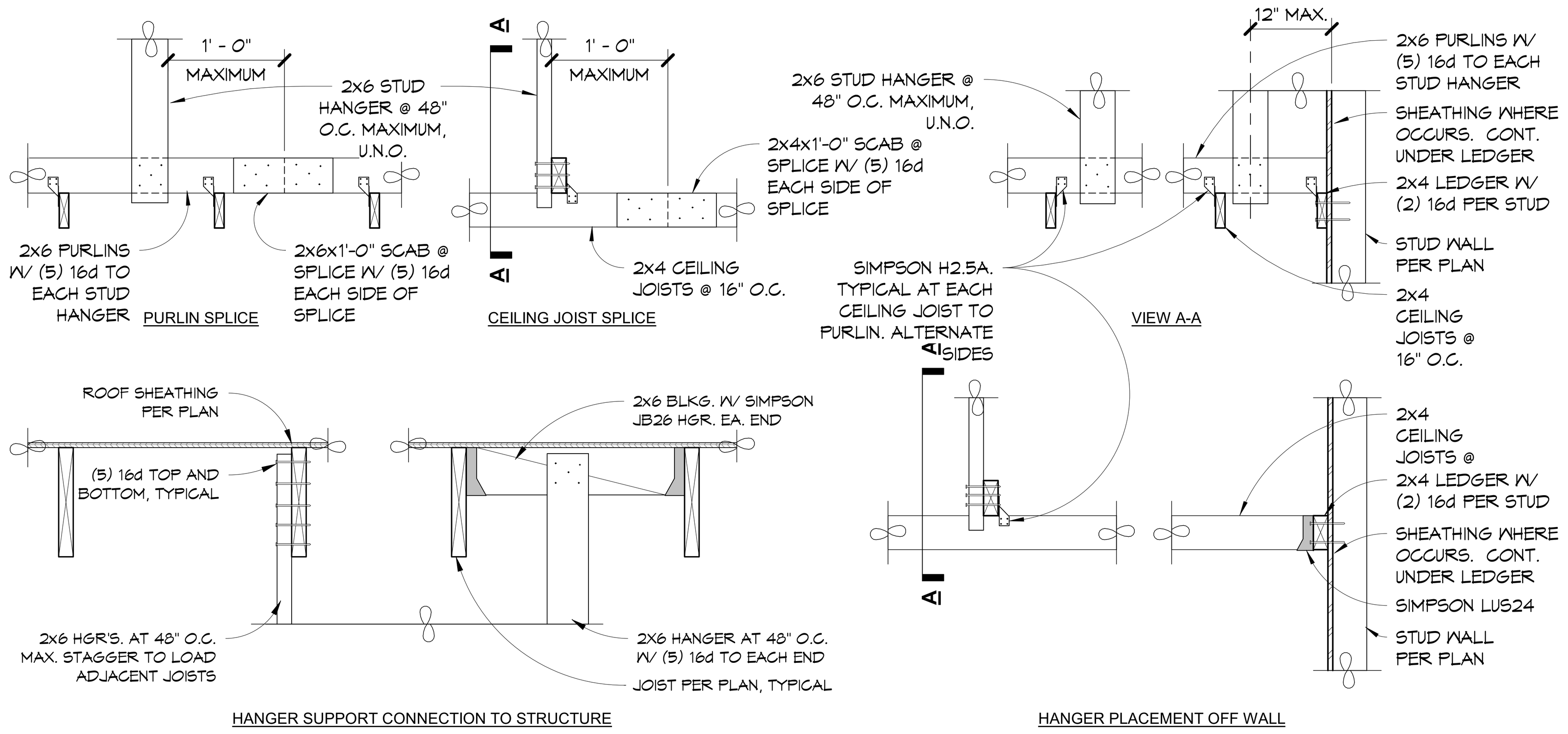
DSA File No.:

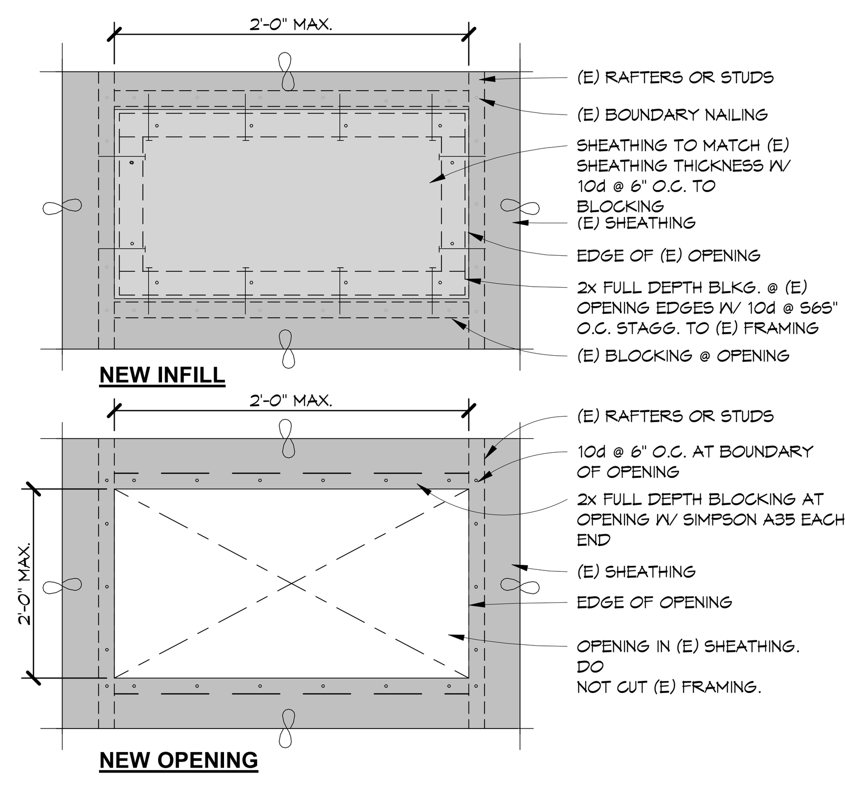
DSA Application No.:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

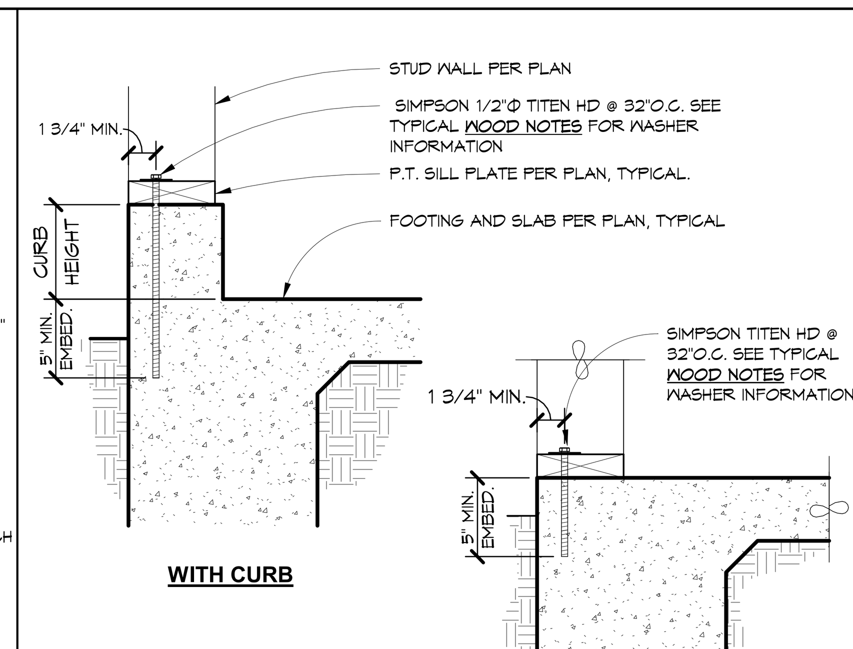
Agency Approval



N1 CEILING SUPPORT FRAMING TO WOOD JOIST
X/S103 NOT TO SCALE



N7 OPENING OR INFILL RETRO. IN (E) WD.
X/S103 NOT TO SCALE

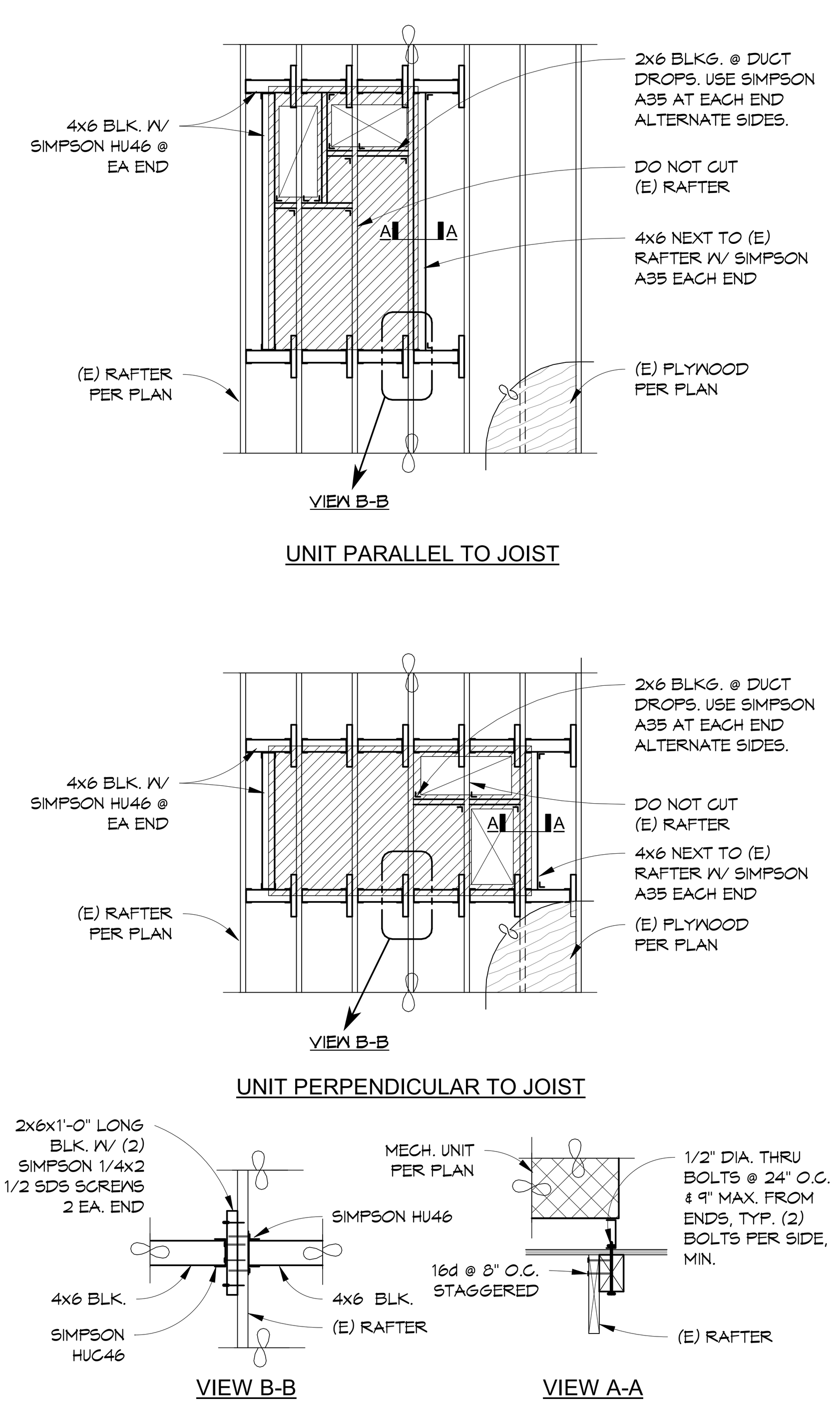


NOTES:
1. SEE TYPICAL SIMPSON TITEN HD IN CONC. DETAIL FOR ADDITIONAL INFORMATION.
2. REBAR IN SLAB AND FOUNDATION HAS NOT BEEN SHOWN FOR CLARITY.

N11 ANCHOR BOLT RETROFIT
X/S103 NOT TO SCALE

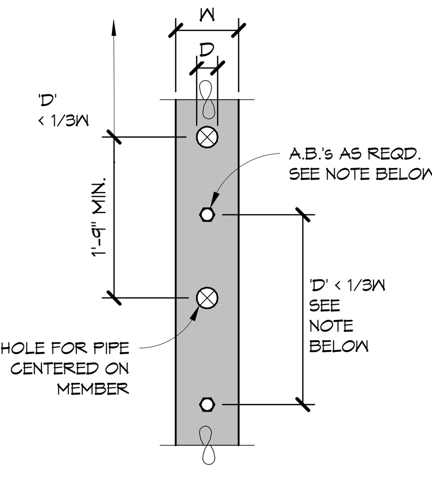
1. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.
2. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONDITION.
3. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE RECORD PLANS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
4. VERIFY CONSTRUCTION DOCUMENTS WITH THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE THE EXISTING RECORD PLANS.
5. PROVIDE AND MAINTAIN A COMPLETE SET OF EXISTING RECORD PLANS AND MAKE THEM AVAILABLE FOR USE ON JOB SITE.
6. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED ON PLANS, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY STRUCTURAL ENGINEER IMMEDIATELY.
7. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR ALTERATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS THAT REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THOSE ELEMENTS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO OWNER.
8. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE PLANS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT LIMITED TO, DRY ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING OR EXCESSIVE DEFLECTION, SAGGING, TWISTING AND DIFFERENT SIZE, ORIENTATION, SPACING, GRADE QUALITY OR MATERIAL.
9. DO NOT CUT ANY EXISTING RE-BAR OR FRAMING MEMBERS NOT DETAILED ON STRUCTURAL CONSTRUCTION DOCUMENTS.
10. THE AREA SUBJECT TO THE BUILDING PAD AND SITE IMPROVEMENTS HAVE EXISTING BURIED UTILITIES. THESE UTILITIES ARE BEING USED BY THE EXISTING BUILDINGS, AND WILL REQUIRE SELECTIVE DEMOLITION AND RE-INSTALLATION. THE OWNER'S SURVEYOR HAS DOCUMENTED KNOWN UNDERGROUND UTILITIES, AS INDICATED IN THE TOPOGRAPHICAL SURVEY, BUT CONTRACTOR FIELD INVESTIGATIONS AND HAND DUG PITS ARE REQUIRED IN ORDER TO ESTABLISH THE ACTUAL LIMITS OF THE UNDERGROUND UTILITIES. SHOULD AN UNDOCUMENTED UTILITY BE FOUND, DETERMINE THE LOCATION, SIZE AND SCOPE OF THE UNKNOWN UTILITY AND PROVIDE THE INFORMATION TO THE ARCHITECT FOR FURTHER DIRECTION.
11. CONTRACTOR SHALL HAVE ALLOWANCE TO REMOVE ANY OVER POUR OF EXISTING FOOTINGS TO ALLOW PLACEMENT OF NEW FOOTINGS IN A CAREFUL MANNER.

J14 EXISTING CONDITIONS NOTES
X/S103 NOT TO SCALE



NOTES:
1. MECHANICAL UNIT SHAPE, SIZE AND ORIENTATION ARE ONLY SHOWN GRAPHICALLY. SEE PLAN FOR SPECIFIC INFORMATION.
2. DO NOT CUT OR DAMAGE ANY (E) FRAMING MEMBERS.

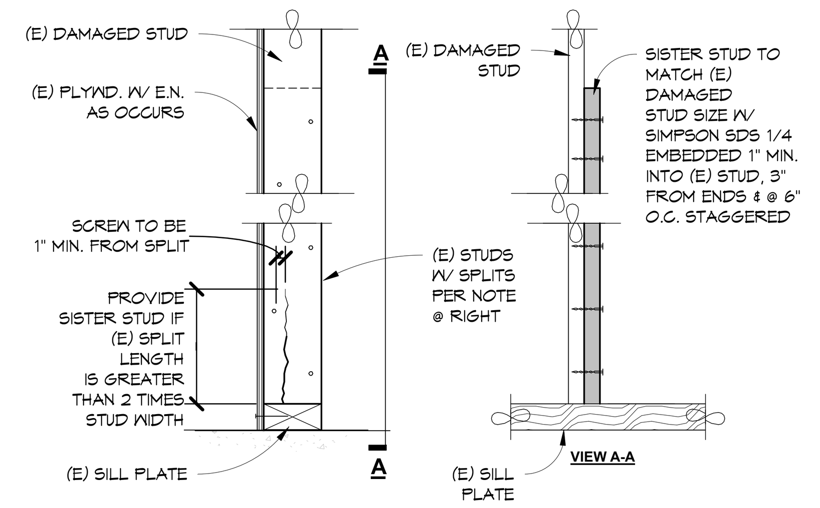
E1 MECH. UNIT ATTACHMENT FOR (E) WD.
X/S103 NOT TO SCALE



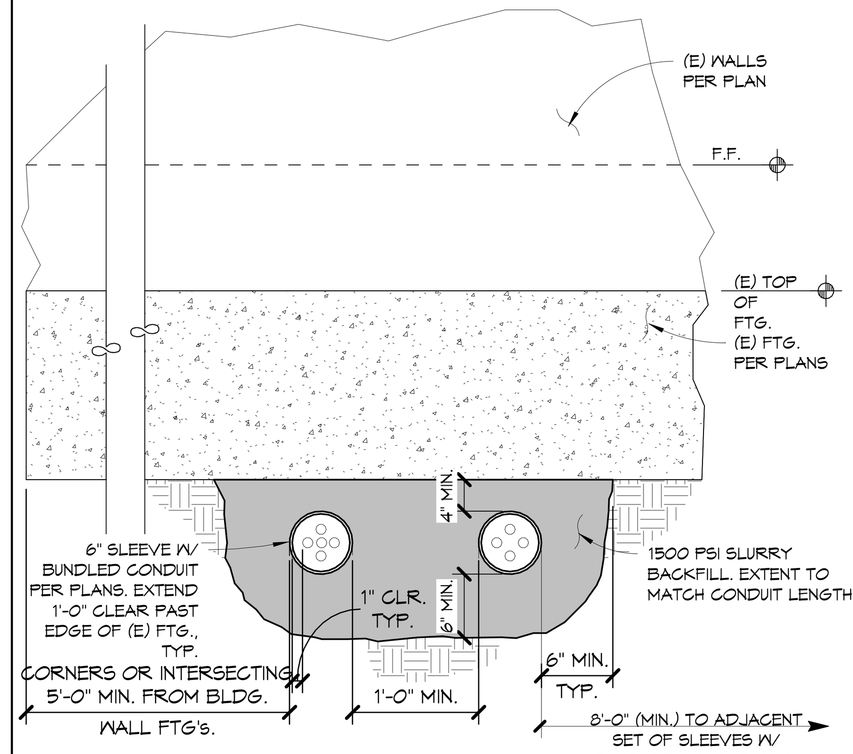
NOTES:
1. FOR 'D' GREATER THAN 1/3 WIDTH PROVIDE ANCHOR BOLTS AT 9" O.C. MAX & 6" O.C. MIN. AT EACH SIDE OF HOLE. PROVIDE MIN. OF (2) A.B. PER SILL PIECE.
2. FOR MULTIPLE HOLES & NOTCHES, MAINTAIN 18" CLEAR MIN. & EXTEND STRAP 12" PAST LAST HOLE OR NOTCH.

J4 OPENING IN SILL PLATE
X/S103 NOT TO SCALE

NOTE:
CORRECTIVE WORK SHALL BE REQUIRED FOR 2x OR 3x STUDS W/ 1/8" WIDE OR GREATER SPLIT.

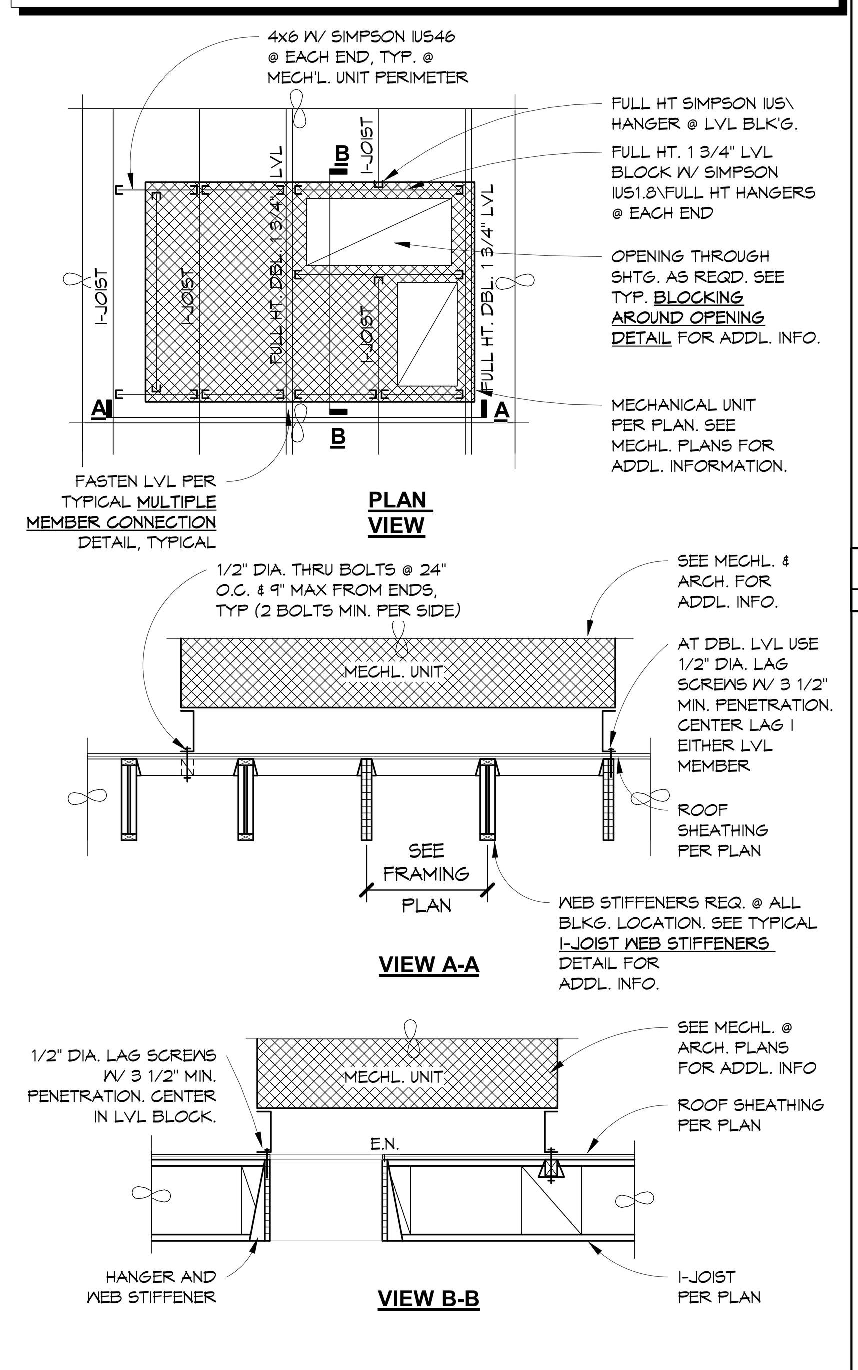


J7 SPLIT WOOD STUD REPAIR
X/S103 NOT TO SCALE

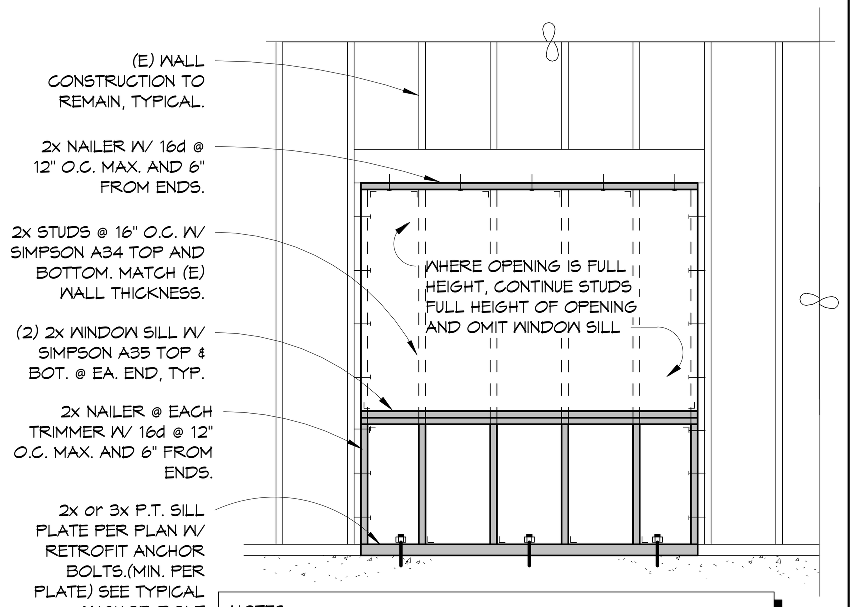


J11 BUNDLED CONDUITS UNDER (E) FOOTING
X/S103 NOT TO SCALE

NOTES:
1. MECHANICAL UNIT SHAPE, SIZE AND ORIENTATION, ALONG WITH DUCT PENETRATIONS ARE ONLY SHOWN GRAPHICALLY. SEE PLAN FOR SPECIFIC INFORMATION.
2. NO BOLTS OR LAG SCREWS ARE ALLOWED TO BE INSTALLED DIRECTLY INTO I-JOISTS.

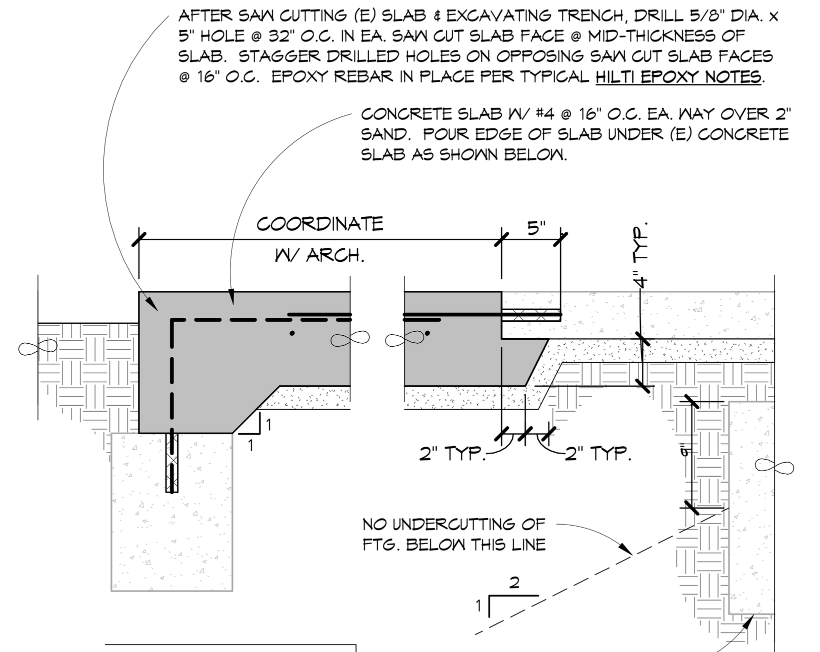


A4 MECHANICAL UNIT ATTACHFOR I-JOISTS
X/S103 NOT TO SCALE



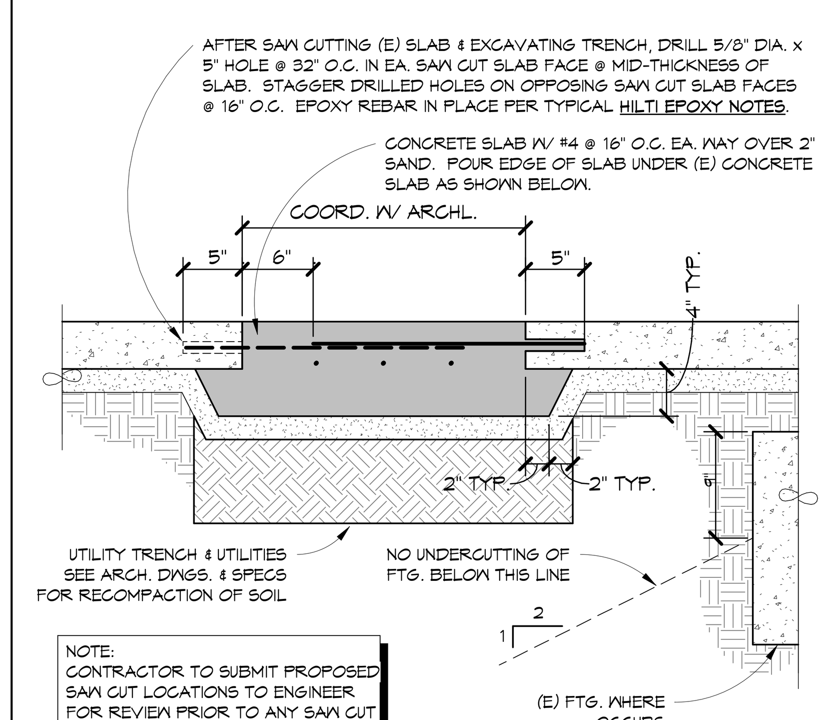
NOTES:
1. AT WINDOW SILL APPLICATION REMOVE (E) SILL FRAMING, EXCEPT FOR (E) SILL PLATE AND ATTACHMENT, AND USE INFILL FRAMING AS NOTED ABOVE.
2. MATCH WALL SHEATHING TYPE, THICKNESS AND ATTACHMENT AT INFILL AREA TO (E) WALL.

E7 RETRO. INFILL WALL FRMG. FOR WOOD
X/S103 NOT TO SCALE



NOTE:
CONTRACTOR TO SUBMIT PROPOSED SAW CUT LOCATIONS TO ENGINEER FOR REVIEW PRIOR TO ANY SAW CUT WORK

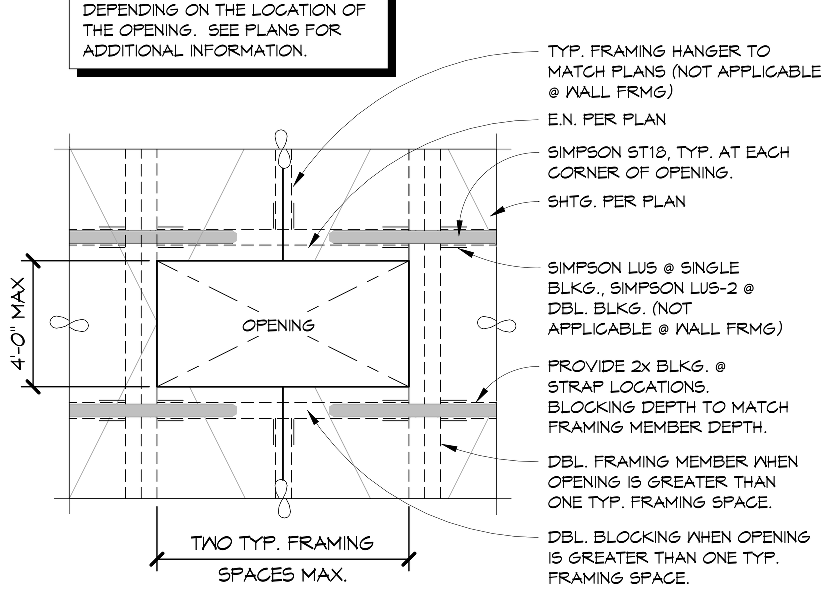
E11 (N)SLAB TO (E)SLAB/FOOTING
X/S103 NOT TO SCALE



NOTE:
CONTRACTOR TO SUBMIT PROPOSED SAW CUT LOCATIONS TO ENGINEER FOR REVIEW PRIOR TO ANY SAW CUT WORK

E14 UTILITY TRENCH SLAB RETROFIT
X/S103 NOT TO SCALE

NOTES:
FRAMING MEMBERS CAN BE EITHER RAFTERS, JOISTS OR STUDS DEPENDING ON THE LOCATION OF THE OPENING. SEE PLANS FOR ADDITIONAL INFORMATION.



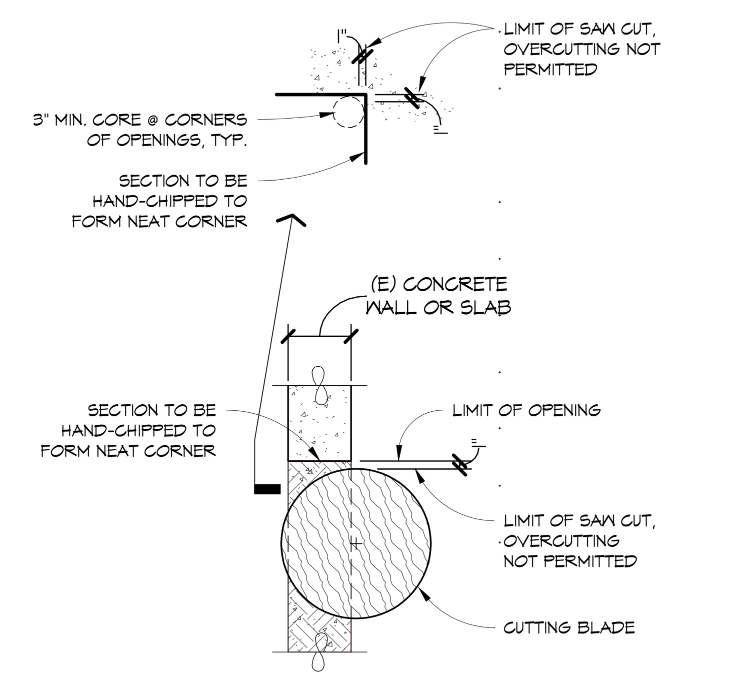
A1 BLOCKING AROUND OPENING
X/S103 NOT TO SCALE

1. SCREW ANCHORS INTO CONCRETE SHALL BE TITEN HD AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. 5956 WEST LAS POSITAS BOULEVARD PLEASANTON, CALIFORNIA 94588. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND I.C.C. REPORT NO. ESR-2713.
2. TEST VALUES AND INSTALLATION REQUIREMENTS SHALL BE AS FOLLOWS:

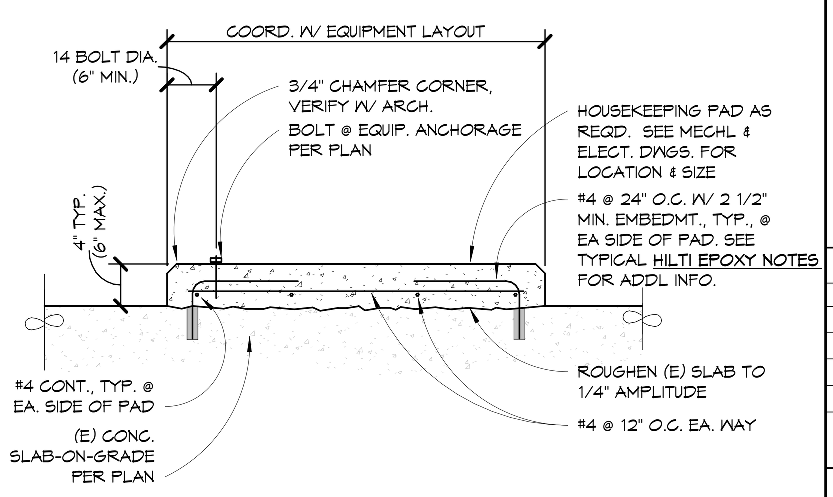
BOLT SIZE	MIN. EMBED	CONC. THKS.	TORQUE TEST
3/8"	3 1/4"	4"	10 FT LBS
1/2"	4"	6 1/4"	10 FT LBS
5/8"	5 1/2"	8 1/2"	10 FT LBS
3/4"	6 1/4"	10"	20 FT LBS

3. PLACEMENT GUIDELINES FOR ABOVE VALUES REQUIRE THE FOLLOWING CONDITIONS:
   - TABLE VALUES ARE BASED ON f'c = 2500 PSI
   - HOLES DRILLED WITH A HAND-HELD ELECTRO-PNEUMATIC ROTARY HAMMER DRILL WITH A CARBIDE-TIPPED DRILL BIT CONFORMING TO ANSI B212.15-1994.
   - PILOT HOLE MUST BE THE SAME DIAMETER AS THE SPECIFIED ANCHOR
   - HOLE IS TO BE DRILLED TO THE SPECIFIED EMBEDMENT DEPTH PLUS 1/2" (ONLY 1/4" REQUIRED FOR 3/8" SCREW)
   - ANY SEISMIC DESIGN CATEGORY PER 2019 C.B.C.
   - TENSION LOAD VALUES SHALL BE MULTIPLIED BY 0.6 FOR LIGHTWEIGHT CONCRETE
   - A.C.I. "CRACKED" CONCRETE CONDITION IS ASSUMED.
   - HOLES SHALL BE CLEANED IN ACCORDANCE WITH ICC REPORT NO. ESR-2713
4. WHEN INSTALLING SCREW ANCHORS IN EXISTING CONCRETE, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. MAINTAIN A MINIMUM CLEARANCE OF ONE-INCH BETWEEN THE EXISTING REINFORCEMENT AND THE SCREW ANCHOR.
5. ANY BOLTS SHOWN ON THE APPROVED PLANS AS SCREW ANCHORS, REQUIRES PERIODIC SPECIAL 'INSPECTION IN ACCORDANCE WITH SECTION 4.4 IN THE I.C.C. REPORT. SPECIAL INSPECTION SHALL BE BY AN APPROVED TESTING AND INSPECTION AGENCY. ANY ITEMS THAT REQUIRE SCREW ANCHORS BUT ARE NOT SPECIFICALLY SHOWN ON THE APPROVED PLANS MUST BE APPROVED BY THE STRUCTURAL ENGINEER AND D.S.A./O.S.H.P.D. PRIOR TO INSTALLATION.
6. TORQUE TESTING OR PULL TESTING SHALL BE DONE IN ACCORDANCE WITH D.S.A./O.S.H.P.D. GUIDELINES WHEN REQUIRED.

A7 SIMPSON TITEN HD IN CONC.
X/S103 NOT TO SCALE



A11 SAW CUTTING IN CONCRETE
X/S103 NOT TO SCALE



A14 HOUSEKEEPING PAD FOR (E) CONC.
X/S103 NOT TO SCALE

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22532

Consultant

Earl Warren Junior High School Modernization

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL WOOD NOTES & PROJECTS

Drawing

darden architects
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Architect

No.	Revision/Submission	Date

Revision

	Designed By: SOC	Copyright Darden Architects
Scale: As indicated	Drawn By: SOC	X/S103
Project Number: 2228	Checked By: SOC	
Date: 2023-05-26	Reviewed By SOC	

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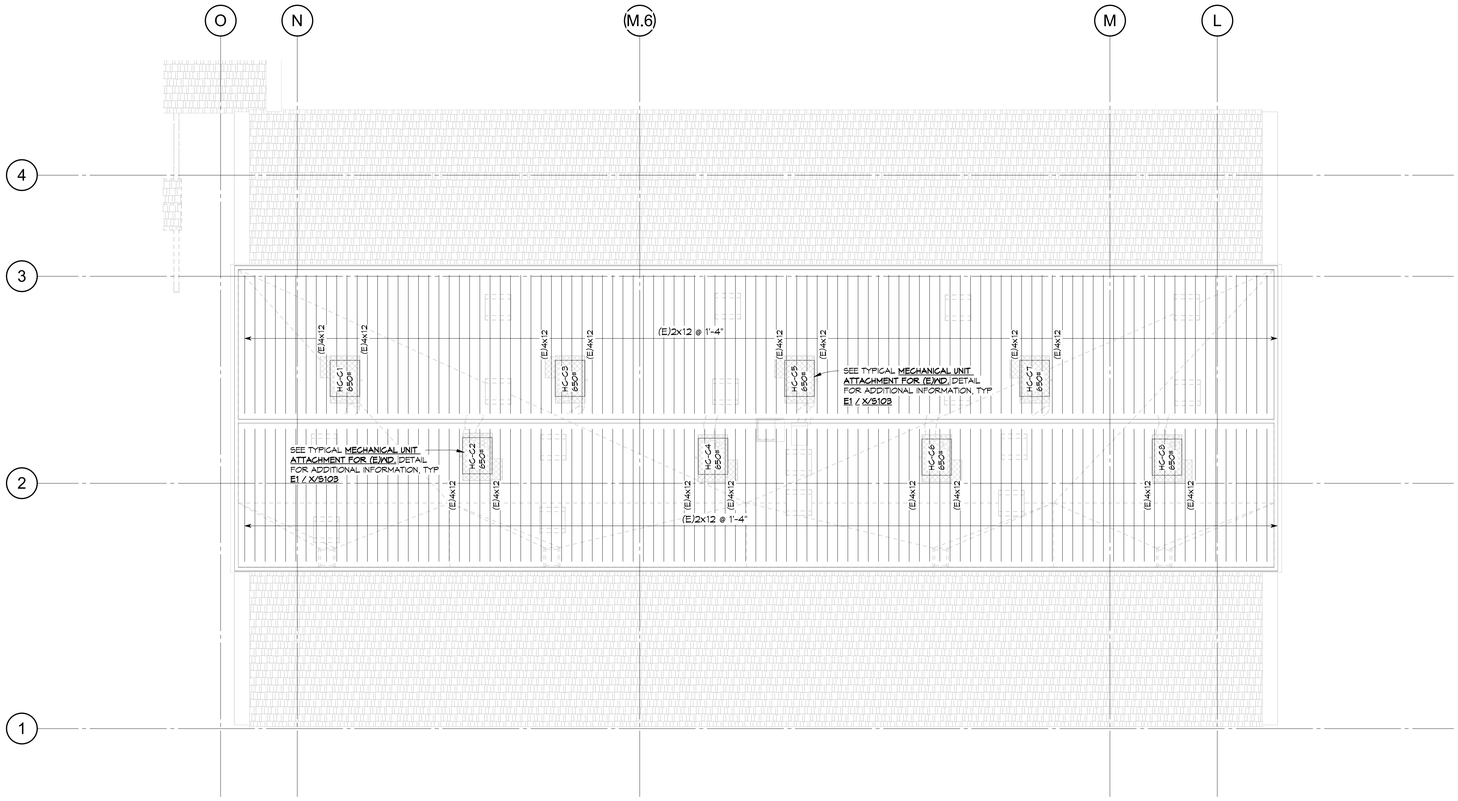
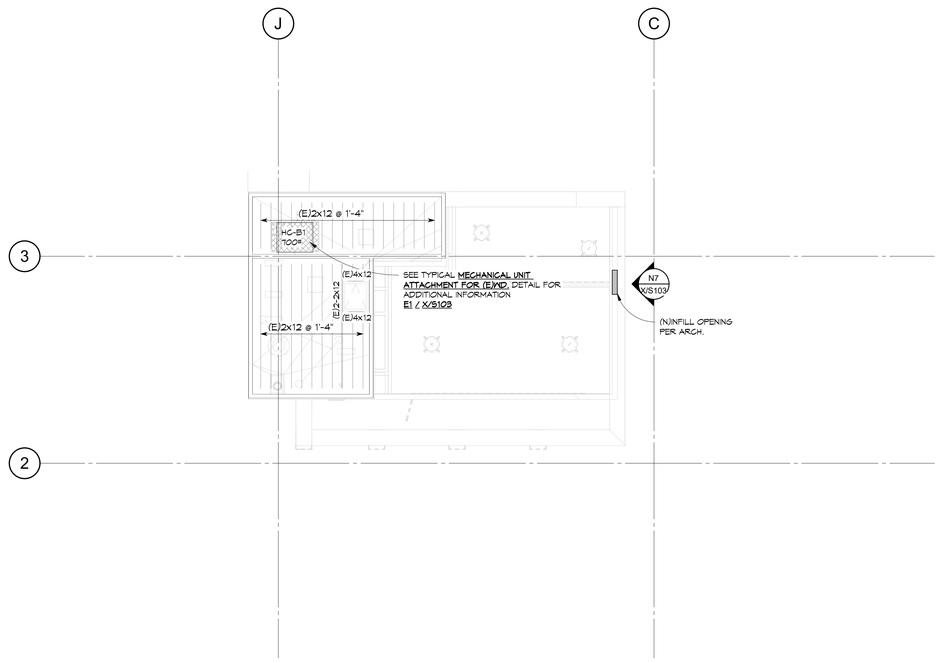


J1	ROOF FRAMING PLAN - BUILDING C
B&C/S301	1/8" = 1'-0"



A1	ROOF FRAMING PLAN - BUILDING B
B&C/S301	1/8" = 1'-0"

1. SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
2. ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
4. ALL TOP OF FRAMING ABOVE FINISH SLAB VARIES, SEE PLAN FOR INFORMATION.
5. VERIFY ROOF SLOPE(S) WITH ARCHITECTURAL PLANS.
6. SEE TYPICAL **MECHANICAL UNIT ATTACHMENT** DETAIL FOR ROOF MOUNTED EQUIPMENT. CONTRACTOR SHALL VERIFY AND COORDINATE WEIGHTS AND LOCATIONS OF ALL ROOF SUPPORTED MECHANICAL AND ELECTRICAL UNITS, AND NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY DISCREPANCIES ARE DETERMINED.
7. AT OPENINGS IN DIAPHRAGM OR WALL SHEATHING SEE TYPICAL **BLOCKING AROUND OPENING** DETAIL FOR INFORMATION, UNLESS NOTED OTHERWISE.
8. ALL FRAMING SHALL BE D.F. NO. 1 OR BETTER, UNLESS OTHERWISE NOTED. SEE TYPICAL **WOOD NOTES** ADDITIONAL INFORMATION.
9. COORDINATE WITH ARCHITECTURAL IF ADDITIONAL FRAMING BLOCKING IS REQUIRED FOR SUSPENDED CEILING, SOFFITS AND FINISHES.
10. WHERE HEADERS ARE NOT SPECIFICALLY NOTED ON PLAN, SEE TYPICAL **WALL FRAMING AT OPENINGS** DETAIL FOR HEADER INFORMATION.

N14	WOOD FRAMING NOTES
B&C/S301	NOT TO SCALE

J14	NOT USED
	NOT TO SCALE

E14	NOT USED
	NOT TO SCALE

A14	NOT USED
	NOT TO SCALE

DSA File No.:

DSA Application No.:

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SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

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Bakersfield, CA 93313

Project

ROOF FRAMING PLAN

Drawing

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No.	Revision/Submission	Date

Revision

	Designed By: SOC	Copyright Darden Architects
Scale: As indicated	Drawn By: SOC	B&C/S301
Project Number: 2228	Checked By: SOC	
Date: 2023-05-26	Reviewed By SOC	

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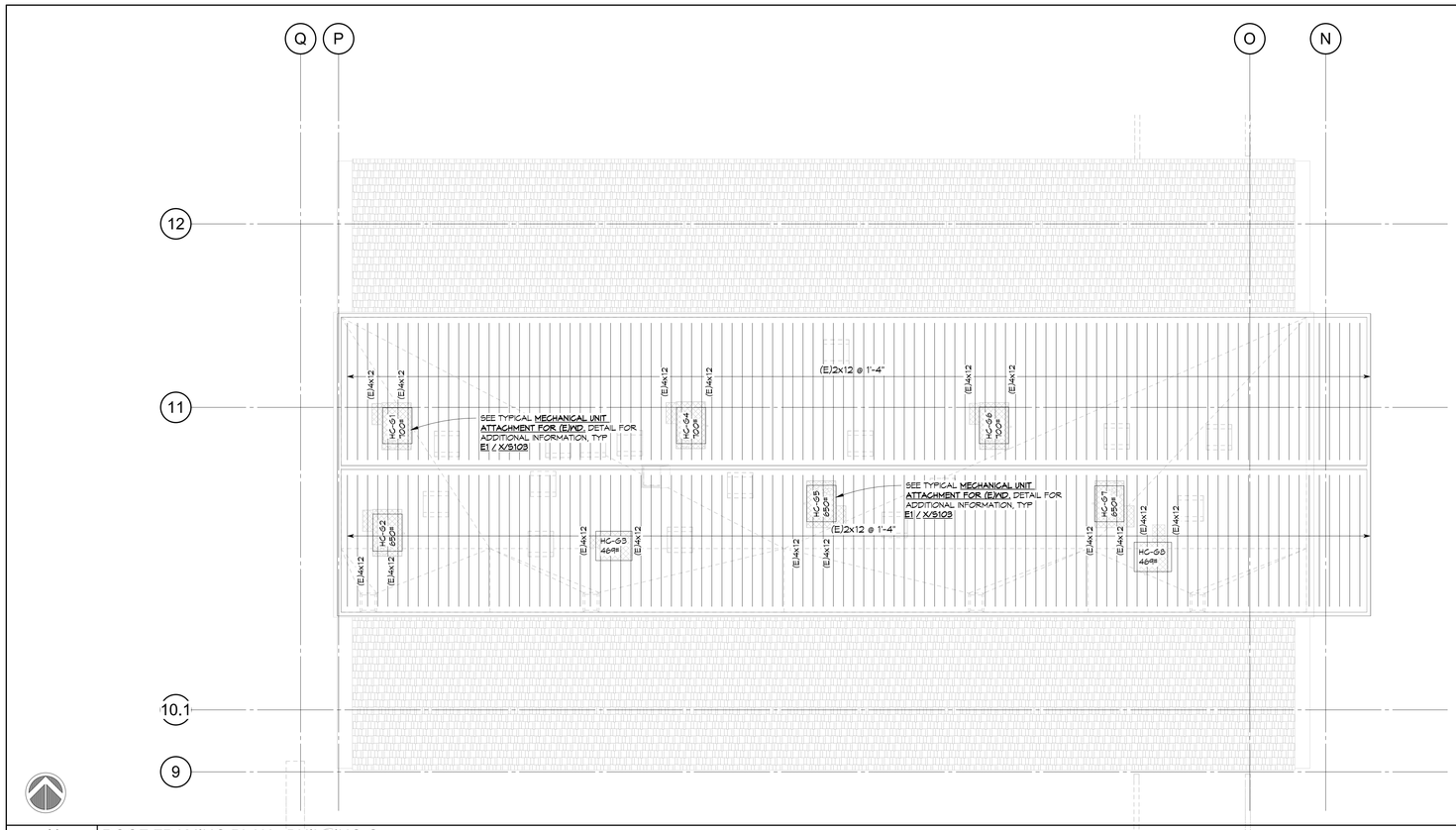
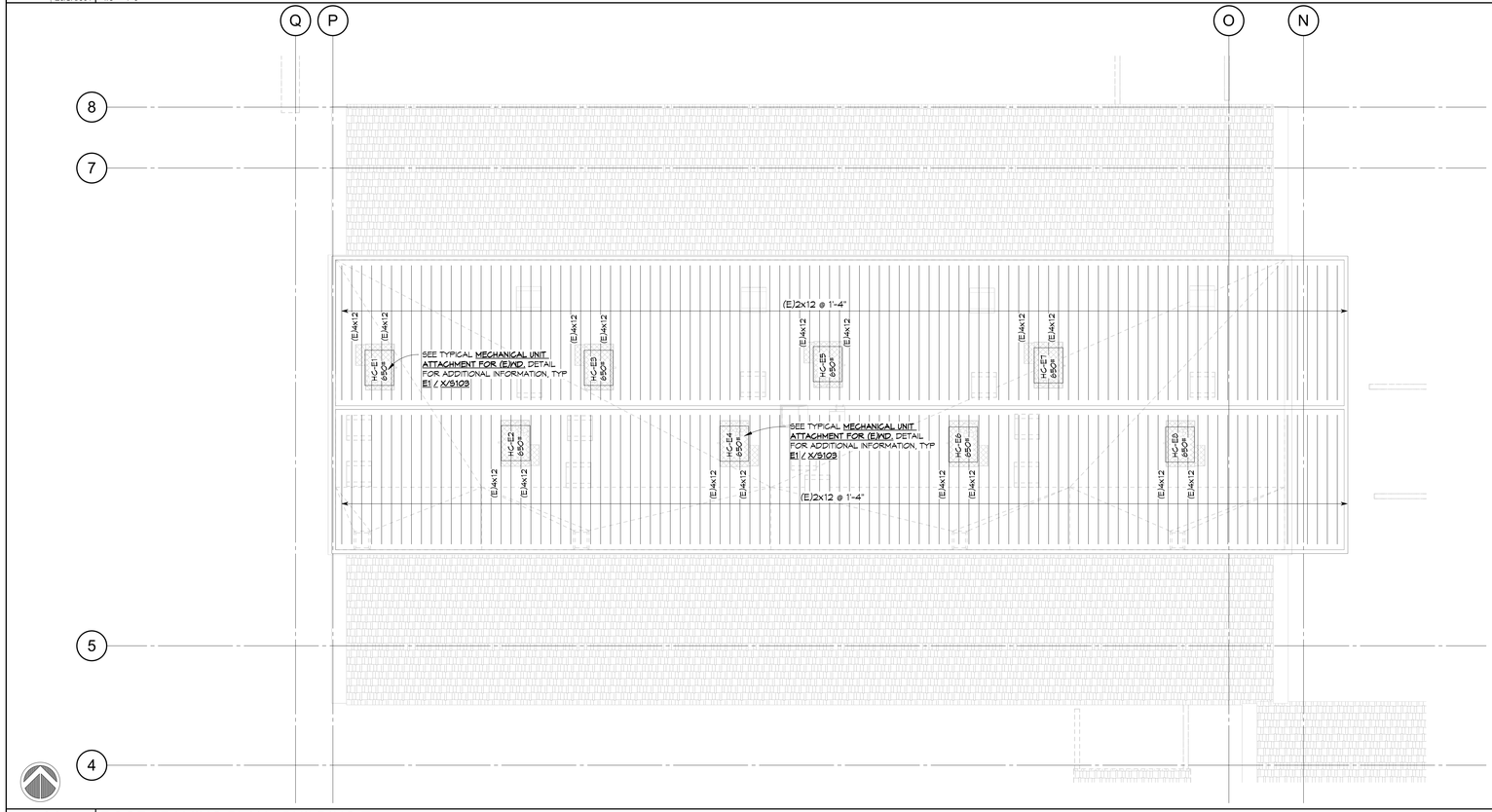


J1 ROOF FRAMING PLAN - BUILDING G
E&G/S301 1/8" = 1'-0"



A1 ROOF FRAMING PLAN - BUILDING E
E&G/S301 1/8" = 1'-0"

1. SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
2. ALL UNCLEAR AND/OR MISSING DETAILS SHALL BE BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION BEFORE PROCEEDING WITH CONSTRUCTION.
4. ALL TOP OF FRAMING ABOVE FINISH SLAB VARIES, SEE PLAN FOR INFORMATION.
5. VERIFY ROOF SLOPE(S) WITH ARCHITECTURAL PLANS.
6. SEE TYPICAL **MECHANICAL UNIT ATTACHMENT** DETAIL FOR ROOF MOUNTED EQUIPMENT. CONTRACTOR SHALL VERIFY AND COORDINATE WEIGHTS AND LOCATIONS OF ALL ROOF SUPPORTED MECHANICAL AND ELECTRICAL UNITS, AND NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY DISCREPANCIES ARE DETERMINED.
7. AT OPENINGS IN DIAPHRAGM OR WALL SHEATHING SEE TYPICAL **BLOCKING AROUND OPENING** DETAIL FOR INFORMATION, UNLESS NOTED OTHERWISE.
8. ALL FRAMING SHALL BE D.F. NO. 1 OR BETTER, UNLESS OTHERWISE NOTED. SEE TYPICAL **WOOD NOTES**ADDITIONAL INFORMATION.
9. COORDINATE WITH ARCHITECTURAL IF ADDITIONAL FRAMING BLOCKING IS REQUIRED FOR SUSPENDED CEILING, SOFFITS AND FINISHES.
10. WHERE HEADERS ARE NOT SPECIFICALLY NOTED ON PLAN, SEE TYPICAL **WALL FRAMING AT OPENINGS** DETAIL FOR HEADER INFORMATION.

N14 WOOD FRAMING NOTES
E&G/S301 NOT TO SCALE

J14 NOT USED
NOT TO SCALE

E14 NOT USED
NOT TO SCALE

A14 NOT USED
NOT TO SCALE

DSA File No.:

DSA Application No.:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

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A1	ROOF FRAMING PLAN - BUILDING H
H/S301	1/8" = 1'-0"

1. SEE TYPICAL SHEETS FOR ALL GENERAL AND MATERIAL NOTES, AND ALL TYPICAL SCHEDULES AND DETAILS. THE INFORMATION ON THE TYPICAL SHEETS APPLY TO THE PROJECT AND ARE NOT SPECIFICALLY REFERENCED ON PLAN WORK, UNLESS NOTED OTHERWISE. IF TYPICAL DETAILS ARE SPECIFIED ON PLANS OR NOTES, THEY WILL BE REFERENCED WITH THE WORD "TYPICAL" FOLLOWED BY **BOLD AND UNDERLINED** TEXT STATING THE TITLE OF THE TYPICAL DETAIL OR NOTE.
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N14	WOOD FRAMING NOTES
H/S301	NOT TO SCALE

J14	NOT USED
	NOT TO SCALE

E14	NOT USED
	NOT TO SCALE

A14	NOT USED
	NOT TO SCALE

DSA File No.:

DSA Application No.:

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Project

ROOF FRAMING PLAN

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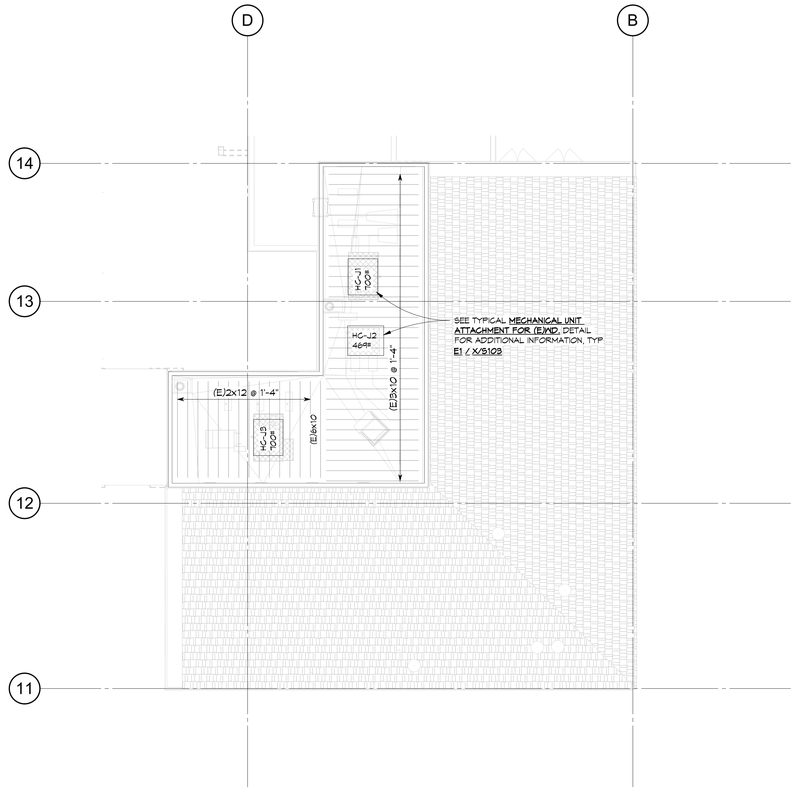
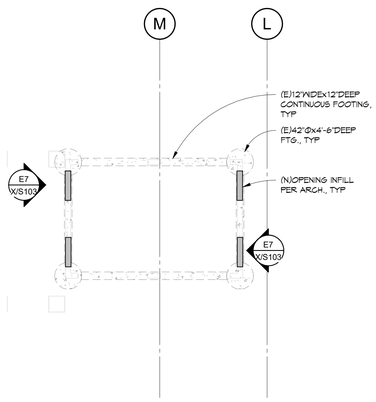
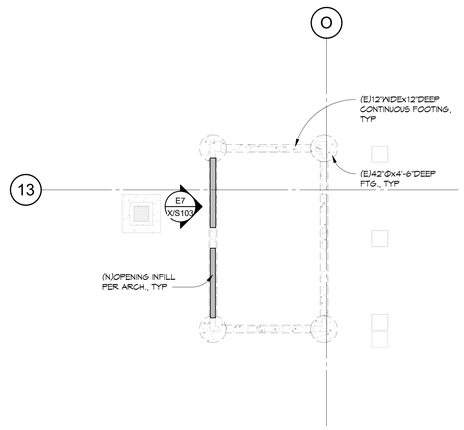


J1	ROOF FRAMING PLAN - BUILDING J
I&J/S301	1/8" = 1'-0"



A1	FOUNDATION PLAN - BUILDING I1
I&J/S301	1/8" = 1'-0"



A7	FOUNDATION PLAN - BUILDING I5
I&J/S301	1/8" = 1'-0"

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N14	WOOD FRAMING NOTES
I&J/S301	NOT TO SCALE

J14	NOT USED
	NOT TO SCALE

E14	NOT USED
	NOT TO SCALE

A14	NOT USED
	NOT TO SCALE

DSA File No.:

DSA Application No.:

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DATE: 07/20/2023

Agency Approval

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Project

ROOF FRAMING PLAN

Drawing

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Architect

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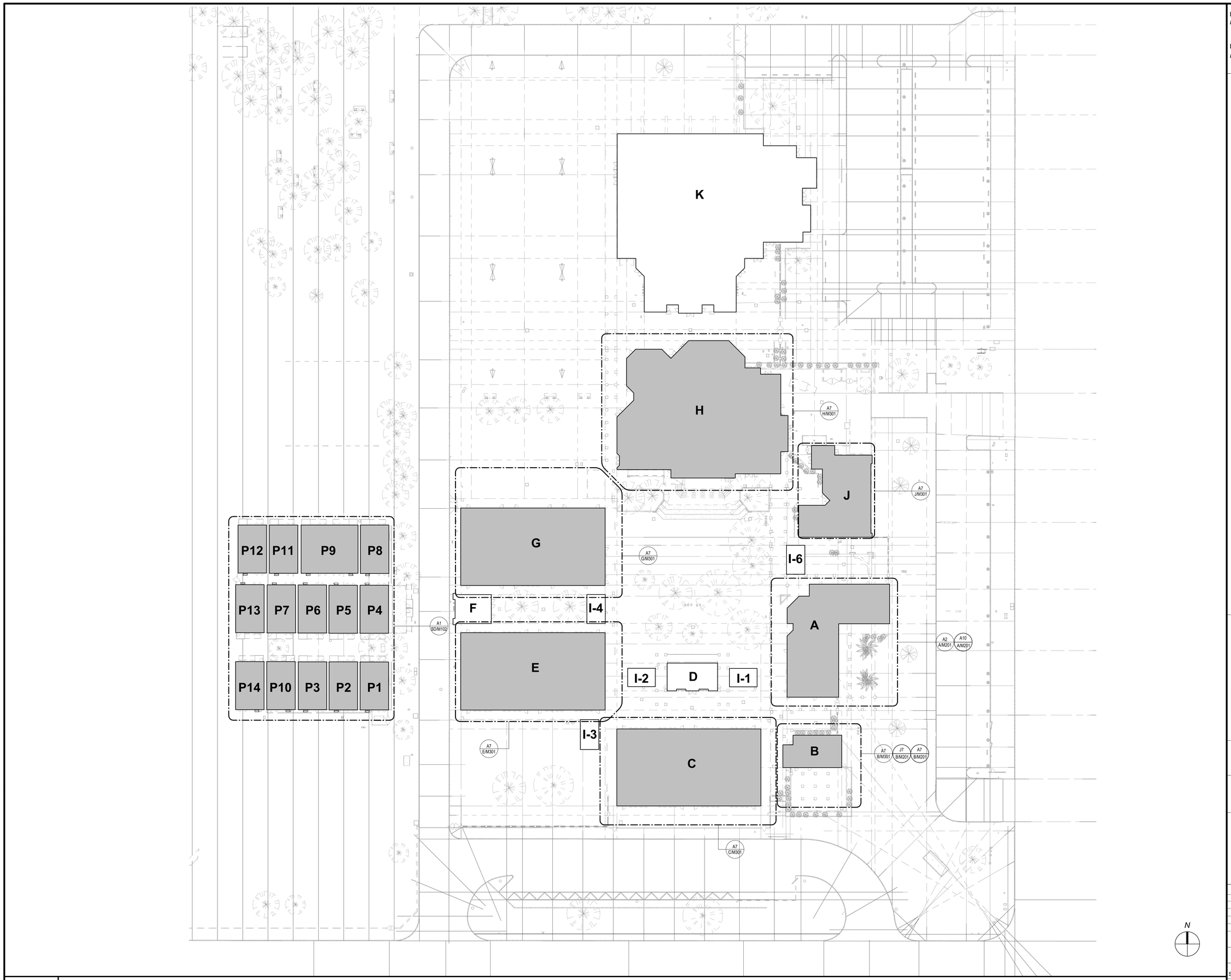

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DSA File

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

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engineers
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project no. 1143

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Bakersfield, CA 93313

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SITE DEVELOPMENT
MECHANICAL SITE PLAN

Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: JCS
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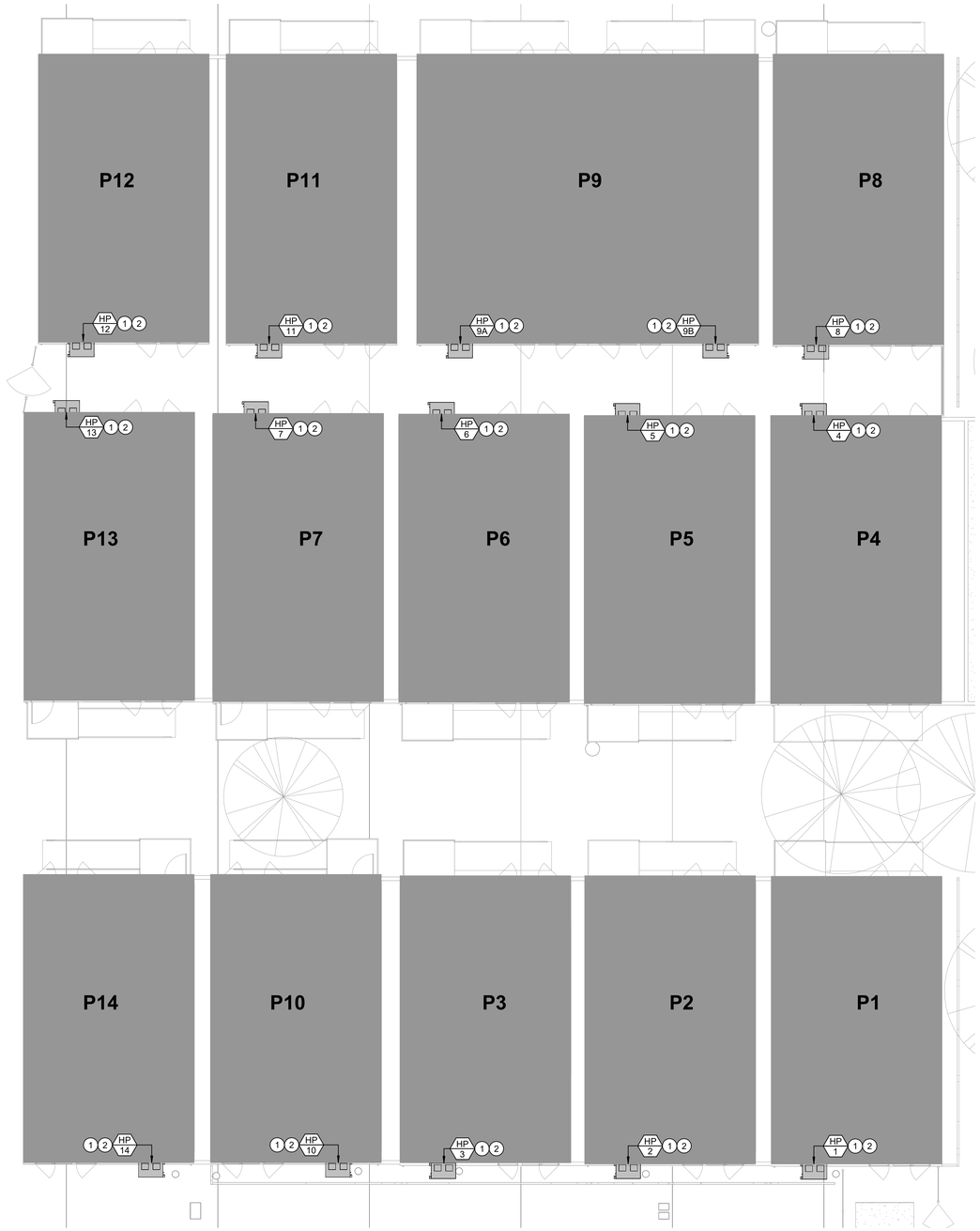
Scale: 1" = 30'-0"
Drawn By: Author
Project Number: 2228
Checked By: HB
Date: 11/29/22
Reviewed By: HB

SD/M101

A1
1" = 30'-0"
MECHANICAL SITE PLAN

2/14/2023 9:53:15 AM



N

A1

1/8" = 1'-0"

ENLARGED MECHANICAL SITE PLAN

2/14/2023 9:53:17 AM

DSA File No.:
DSA File

DSA Application No.:
DSA App

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APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

KEYNOTES

1 REMOVE (E) WALL-MOUNT HEAT PUMP EXCAVATE AND DEMO (E) DRY WELL. PRESERVE (E) MOUNTING ANGLES, DUCT OPENINGS THRU WALL, AND UTILITY CONNECTIONS.

2 (N) WALL-MOUNTED HEAT PUMPPER DETAIL N14 ON PAGE X/M600. PROVIDE DUCT TRANSITIONS AS REQUIRED TO RE-CONNECT TO (E) DUCT OPENINGS THRU WALL.

General Notes

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project no. 1143

REGISTERED PROFESSIONAL ENGINEER
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Panama-Buena Vista Union School District
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Project

SITE DEVELOPMENT
ENLARGED MECHANICAL SITE PLAN

Drawing

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No.	Revision/Submission	Date

Revision

Designed By: JCS

Drawn By: Author

Checked By: HB

Reviewed By: HB

Scale: As indicated

Project Number: 2228

Date: 11/29/22

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SD/M102

GENERAL NOTES

1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
2. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
4. PROVIDE ALL DUCT TRANSITION PIECES AND FITTINGS REQUIRED TO ACCOMMODATE MECHANICAL EQUIPMENT CONNECTIONS, STRUCTURE, ARCHITECTURAL ELEMENTS, AND CHANGES IN DUCT SIZES.
5. ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND TESTED IN ACCORDANCE WITH THE STANDARDS ADOPTED BY SMACNA AND CHAPTER 6 OF THE 2019 CMC.
6. ALL DUCTWORK AND PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF 2019 CMC. INSULATION MATERIALS SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 110.8, 120.3, AND 120.4 OF THE 2019 CALIFORNIA ENERGY CODE.
7. ALL DUCT SIZES SHOWN ARE NET INSIDE DIMENSIONS.
8. DUCTWORK SHALL BE SHEET METAL CONSTRUCTED IN COMPLETE CONFORMANCE WITH CMC LATEST EDITION, CHAPTER 6 AND THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
9. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
10. PROVIDE VOLUME DAMPERS IN ALL BRANCH DUCTS (SUPPLY, RETURN, O.S.A. AND EXHAUST) FOR SYSTEM BALANCING.
11. HANDLE, STORE AND INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND AS DIRECTED IN THE PROJECT MANUAL.
12. ALL AIR SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED TO MEET THE REQUIRED FLOW. TAB METHODOLOGY SHALL BE SUBMITTED TO OWNER REPRESENTATIVE PRIOR TO IMPLEMENTATION AND IN ACCORDANCE WITH PROJECT SEQUENCING.

ANCHORAGE & BRACING NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISCPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 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 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT
IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

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 A 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, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED 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.

MECHANICA PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MD ☐ MP ☐ PP ☐ E ☐ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MD ☒ MP ☒ PP ☐ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # 0043-13.

LEGEND

SYMBOL	ITEM	ABBR.
	ABOVE	ABV
	ABOVE CEILING	ABV CLG
	ABOVE FINISHED FLOOR	AFF
	ALTERNATE	ALT
	AIR CONDITIONING	AC
	AIR FLOW STATION	AFS
	AIR HANDLER UNIT	AHU
	ANALOG INPUT	AI
	ANALOG OUTPUT	AO
&	AND	
	ARCHITECT / ARCHITECTURAL	ARCH
@	AT	
	BACKDRAFT DAMPER	BDD
	BELOW FINISH CEILING	BFC
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	BLIND FLANGE	BLF
	BRITISH THERMAL UNIT	BTU
	BRITISH THERMAL UNIT PER HOUR	BTUH
	CALIFORNIA MECHANICAL CODE	CMC
	CALIFORNIA PLUMBING CODE	CPC
	CEILING	CLG
℄	CENTER LINE	
	CONTINUATION	CONT
	CUBIC FEET OF AIR PER MINUTE	CFM
	CURRENT SENSOR	CS
Φ	DIAMETER	DIA
	DIFFERENTIAL PRESSURE SWITCH	DPS
	DIGITAL INPUT	DI
	DIGITAL OUTPUT	DO
	DOWN	DN
	DRAWING	DWG
	ELECTRICAL	ELEC
	ELBOW	ELL
	EXHAUST	EXH
	EXHAUST AIR	EA
	EXHAUST FAN	EF
	EXISTING	(E)
	FEET	FT
	FLOOR	FLR
	FLOW LINE	FL
	FLOW SWITCH	FS
	GAUGE	GA
	GALLON	GAL
	GALLONS PER HOUR	GPH
	GALLONS PER MINUTE	GPM
	INSIDE DIAMETER	ID
	MAKE-UP AIR UNIT	MAU
	MAXIMUM	MAX
	MINIMUM	MIN
	NEW	(N)
	NOT IN CONTRACT	NIC
	NOT TO SCALE	NTS
#	NUMBER	NO.
	OUTSIDE AIR	OSA
	OUTSIDE DIAMETER	OD
	POUNDS	LBS
	POUNDS PER SQUARE INCH	PSI
	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
	POUNDS PER SQUARE INCH GAUGE	PSIG
	POLYVINYL CHLORIDE	PVC
	PRESSURE STATION	PS
	RETURN AIR	RA
	ROOM	RM
	SUPPLY AIR	SA
	SPECIFICATION	SPEC
	SQUARE FEET	SQ FT
	STAINLESS STEEL	SS
	TEMPERATURE	TEMP
	TEMPERATURE SENSOR	TS
	THROUGH	THRU
	TYPICAL	(TYP)
	UNDER GROUND	U/G
	VARIABLE AIR VOLUME UNIT	VAV
	WITH	W/
—BD—	BOILER BLOWDOWN	
—BF—	BOILER FEED	
—CF—	CHEMICAL FEED	
—A—	COMPRESSED AIR	A
—CHWS—	CHILLED WATER SUPPLY	CHWS
—CHWR—	CHILLED WATER RETURN	CHWR
—CWS—	CONDENSER WATER SUPPLY	CWS
—CWR—	CONDENSER WATER RETURN	CWR
—CW—	DOMESTIC COLD WATER	
—HWS—	HEATING HOT WATER SUPPLY	HWS
—HWR—	HEATING HOT WATER RETURN	HWR
—RD—	REFRIGERANT DISCHARGE	RD
—RL—	REFRIGERANT LIQUID	RL
—RS—	REFRIGERANT SUCTION	RS
—SCW—	SOFT COLD WATER	
—S—	STEAM SUPPLY	S

SYMBOL	ITEM	ABBR.
—CR—	STEAM CONDENSATE RETURN	CR
—SBD—	SURFACE BLOWDOWN	
—D—	DRAIN	D
	PIPING CAP	
	EXISTING (DESIGNATED)	(E)
	REMOVE / DEMO EXISTING (DESIGNATED)	
	DIRECTION OF FLOW	
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	PIPE/DUCT TURN DOWN	
	PIPE/DUCT TURN UP	
	ROUND DUCT (SMALLER THAN 10") Φ	
	ROUND FLEXIBLE DUCT	
	RECTANGULAR OR ROUND DUCT (10"Φ AND LARGER)	
	EXISTING DUCT (DESIGNATED)	
	REMOVE/ DEMO EXISTING DUCT (DESIGNATED)	
	DUCT WITH ACOUSTIC LINING	
	SUPPLY AIR DUCT DROP	
	SUPPLY AIR DUCT RISE	
	RETURN AIR DUCT DROP	
	RETURN AIR DUCT RISE	
	EXHAUST AIR DUCT DROP	
	EXHAUST AIR DUCT RISE	
	OUTSIDE AIR DUCT DROP	
	OUTSIDE AIR DUCT RISE	
	TURNING VANES	TV
	EXTRACTOR	
CO	CO_2 SENSOR	
DD	DUCT DETECTOR	DD
HD	HEAT DETECTOR	HD
SD	SMOKE DETECTOR	SD
M	MOTORIZED DAMPER	
	FIRE DAMPER W/MOTORIZED RESET AND ACCESS DOOR	
	FIRE DAMPER WITH ACCESS PANEL OR SECURITY BARS	
-OR-▲	FIRE DAMPER WITH ACCESS PANEL	FD
-OR-■	FIRE/SMOKE DAMPER WITH ACCESS PANEL	F/SD
	VOLUME CONTROL DAMPER WITH LOCKING QUADRANT	VCD
T AC-1	THERMOSTAT; THERMOSTAT LABEL MOUNT @ +48" AFF TO TOP OF BOX EXAMPLE : THERMOSTAT FOR AC-1	T'STAT
	POINT OF CONNECTION TO EXISTING	POC
	BYPASS TIMER	BPT
	THERMOMETER	
	PRESSURE GAGE	
	SECURITY BARS	
	PETE'S PLUG	
	BALANCING COCK	
	BALL VALVE	
	BUTTERFLY VALVE	
	CHECK VALVE	
	CONCENTRIC REDUCER	
	TWO-WAY CONTROL VALVE	
	FLOW SWITCH	FS
	FLEXIBLE CONNECTION	FLEX
	GATE VALVE	
	GLOBE VALVE	
	INSTRUMENT WELL	
	PLUG VALVE	
	PRESSURE RELIEF VALVE	PRV
	"Y" TYPE STRAINER	
	UNION	
1	KEYNOTE	
A 8"x8" 50 CFM	NEW GRILLE TAG EXAMPLE: MARK A NECK SIZE: 8"x8" / 50 CFM AIRFLOW	
EF 8	NEW EQUIPMENT TAG EXAMPLE: DESCRIPTION EF, MARK NUMBER 8	
2 M202	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET M202	
3 M400	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET M400	

DSA File No.:
DSA File

DSA Application No.:
DSA App

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1143

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
MECHANICAL LEGEND AND GENERAL NOTES

Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: JCS
Drawn By: Author
Checked By: HB
Reviewed By: HB

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Scale: 12" = 1'-0"
Project Number: 2228
Date: 11/29/22

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2/14/2023 9:53:06 AM

MECHANICAL SCHEDULES

PACKAGE HEAT PUMP SCHEDULE

	DESIGNATION	HP-1	HP-2	HP-3	HP-4	HP-5	HP-6	HP-7	HP-8	HP-9A	HP-9B	HP-10	HP-11	HP-12	HP-13	HP-13
	VOLTS / PHASE	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1	208-230 / 1
	F.L.A.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MCA / MOCP	60 / 60	60 / 60	60 / 60	60 / 60	61 / 70	60 / 60	60 / 60	61 / 70	61 / 70	61 / 70	60 / 60	61 / 70	61 / 70	60 / 60	60 / 60
	EER @ ARI	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
BLOWER	SUPPLY AIR (CFM)	1350	1350	1350	1350	1500	1350	1350	1500	1500	1500	1350	1500	1500	1350	1350
BLOWER	EXT. SP (ESP)	0.15	0.15	0.15	0.15	0.27	0.15	0.15	0.27	0.27	0.27	0.15	0.27	0.27	0.15	0.15
BLOWER	MIN. O.S.A. (CFM)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BLOWER	DCV MIN. O.S.A. (CFM)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BLOWER	HP	1 / 3	1 / 3	1 / 3	1 / 3	3/4	1 / 3	1 / 3	3/4	3/4	3/4	1 / 3	3/4	3/4	1 / 3	1 / 3
BLOWER	COMPRESSOR TYPE	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
COOLING	NOMINAL TONS	3.5	3.5	3.5	3.5	4.0	3.5	3.5	4.0	4.0	4.0	3.5	4.0	4.0	3.5	3.5
COOLING	TOTAL (MBH)	39.0	39.0	39.0	39.0	43.0	39.0	39.0	43.0	43.0	43.0	39.0	43.0	43.0	39.0	39.0
COOLING	SENSIBLE (MBH)	29.8	29.8	29.8	29.8	34.4	29.8	29.8	34.4	34.4	34.4	29.8	34.4	34.4	29.8	29.8
COOLING	REFRIGERANT TYPE	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
COOLING	EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
COOLING	AMBIENT AIR (°F)	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
HEATING	CAPACITY @ 47°F (MBH)	39.0	39.0	39.0	39.0	42.5	39.0	39.0	42.5	42.5	42.5	39.0	42.5	42.5	39.0	39.0
HEATING	COP @ 47°F	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
HEATING	AUXILIARY ELEC (KW)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
FILTERS	QTY / SIZE (IN)	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2	2 / 20 x 20 x 2
FILTERS	EFFICIENCY	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13
	MANUFACTURER	BARD	BARD	BARD	BARD	BARD	BARD	BARD	BARD	BARD	BARD	BARD	BARD	BARD	BARD	BARD
	TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP	HEAT PUMP
	MODEL NUMBER	W42HC-A05	W42HC-A05	W42HC-A05	W42HC-A05	W48HC-A05	W42HC-A05	W42HC-A05	W48HC-A05	W48HC-A05	W48HC-A05	W42HC-A05	W48HC-A05	W48HC-A05	W42HC-A05	W42HC-A05
	*OPER. WT (LBS)	542	542	542	542	547	542	542	547	547	547	542	547	547	542	542
	EXISTING WT (LBS)	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530
	ACCESSORIES	1, 2, 3, 5, 6	1, 2, 3, 5, 6	1, 2, 3, 5, 6	1, 2, 3, 5, 6	2, 3, 4, 5, 6	1, 2, 3, 5, 6	1, 2, 3, 5, 6	2, 3, 4, 5, 6	2, 3, 4, 5, 6	2, 3, 4, 5, 6	1, 2, 3, 5, 6	2, 3, 4, 5, 6	2, 3, 4, 5, 6	1, 2, 3, 5, 6	1, 2, 3, 5, 6

*OPERATING WEIGHT INDLCUDES BASE UNIT, ECONOMIZER, & ACCESSORIES.
1. 5KW AUXILIARY HEATER, BARD NO. EHW3HCD-A05.
2. COMMERCIAL ROOM VENTILATOR, BARD NO. CRV-F5.
3. PELICAN TC3 TOUCH SCREEN TITLE 24 COMPLIENT THERMOSTAT WITH BACKPLATE, CARBON DIOXIDE SENSOR, 24 VAC POWER.
4. 5 KW AUXILIAIARY HEATER, BARD MODEL NO. EHW4HC-A05.
5. PROVIDE WITH FACTORY TRANSITION CURB.
6. SEE DETAIL N14 ON X/M800 FOR ANCHORAGE.

PACKAGE AIR CONDITIONING SCHEDULE - BLDG C

	DESIGNATION	HC-C1	HC-C2	HC-C3	HC-C4	HC-C5	HC-C6	HC-C7	HC-C8
	VOLTS / PHASE	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3
	MCA	12	12	12	12	12	12	12	12
	MOCP	15	15	15	15	15	15	15	15
	IEER / EER @ ARI	16.1 / -	16.1 / -	16.1 / -	16.1 / -	16.1 / -	16.1 / -	16.1 / -	16.1 / -
BLOWER	SUPPLY AIR (CFM)	1600	1600	1600	1600	1600	1600	1600	1600
BLOWER	EXT. SP (IN. WC)	1	1	1	1	1	1	1	1
BLOWER	MIN. O.S.A. (CFM)	-	-	-	-	-	-	-	-
BLOWER	DCV MIN. O.S.A. (CFM)	-	-	-	-	-	-	-	-
BLOWER	BHP (HP)	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
BLOWER	RPM	2114	2114	2114	2114	2114	2114	2114	2114
COOLING	SENSIBLE (MBH)	46.34	46.34	46.34	46.34	46.34	46.34	46.34	46.34
COOLING	TOTAL (MBH)	35.15	35.15	35.15	35.15	35.15	35.15	35.15	35.15
COOLING	EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
COOLING	AMBIENT AIR (°F)	105	105	105	105	105	105	105	105
COOLING	REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
HEATING	INPUT CAP. (MBH)	60	60	60	60	60	60	60	60
HEATING	OUTPUT CAP. (MBH)	49	49	49	49	49	49	49	49
HEATING	FUEL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL
FILTERS	SIZE	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2
FILTERS	QUANTITY	2	2	2	2	2	2	2	2
FILTERS	TYPE	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13
	BUILDING	C	C	C	C	C	C	C	C
	APCD REQUIREMENT	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx
	MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
	TYPE	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL
	MODEL NUMBER	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0
	OPER. WT (LBS)	650	650	650	650	650	650	650	650
	EXISTING UNIT WEIGHT	558	558	558	558	558	558	558	558
	ACCESSORIES	1, 3, 4, 5, 7	1, 3, 4, 5, 7	1, 3, 4, 5, 7	1, 3, 4, 5, 7	1, 3, 4, 5, 7	1, 3, 4, 5, 7	1, 3, 4, 5, 7	1, 3, 4, 5, 7

*WEIGHT INCLUDES UNIT, CURB, AND INDICATED ACCESSORIES.
1. INTEGRATED MODULATING 0-100% DRY-BULB ECONOMIZER.
2. TITLE-24 COMPLIANT THERMOSTAT WITH INTEGRATED CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
3. TITLE-24 COMPLIANT THERMOSTAT, DCV NOT REQUIRED.
4. COIL GUARD.
5. FIELD MOUNTED FUSED DISCONNECT.
6. SUPPLY DUCT SMOKE DETECTOR (SYSTEM SENSOR D4120). PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECTRICAL FOR INSTALLATION.
7. SEE DETAIL A14 ON X/M800 FOR ANCHORAGE.

GRILLE SCHEDULE

MARK	DUTY	DESCRIPTION
A	LAY-IN SUPPLY	TITUS MODEL PMC (TYPE 3) PERFORATED MODULAR CORE STEEL LOUVEWR DIFFUSER FOR LAY-IN TILE CEILING, SQUARE NECK, FLAT BLACK INTERIOR, AND NO. 26 WHITE FINISH.
B	LAY-IN RETURN / EXHAUST	TITUS MODEL PAR (TYPE 3) PERFORATED FACE SQUARE OR RECTANGULAR NECK REGISTER FOR LAY-IN TILE CEILING WITH FLAT BLACK INTERIOR AND NO. 26 WHITE FINISH.
C	SURFACE MOUNT SUPPLY	TITUS MODEL 300RL (TYPE 1) STEEL SUPPLY GRILLE FOR SURFACE MOUNTING, 3/4" BLADE SPACING, 12 x 12 FACE, AND NO. 26 WHITE FINISH.
D	SURFACE MOUNT RETURN / EXHAUST	TITUS MODEL 25RL (TYPE 1) STEEL GRILLE FOR SURFACE MOUNTING, 30° FIXED DEFLECTION, 1/2" BLADE SPACING, AND NO. 26 WHITE FINISH.
E	DIRECT SPIRAL DUCT MOUNTED SUPPLY	TITUS MODEL S300FS ALUMINUM DOUBLE EFLECTION WITH RADIUS END CAP, 3/4" SPACING WITH FRONT BLADES PARALLEL TO SHORT DIMENSIONS. NO. 26 WHITE FINISH.

PACKAGE AIR CONDITIONING SCHEDULE - BLDG B

	DESIGNATION	HC-B1
	VOLTS / PHASE	460 / 3
	MCA / MOCP (AMPS)	14 / 20
	IEER / EER @ ARI	16.1 / -
BLOWER	SUPPLY AIR (CFM)	2000
BLOWER	EXT. SP (IN. WC)	
BLOWER	MIN. O.S.A. (CFM)	-
BLOWER	DCV MIN. O.S.A. (CFM)	-
BLOWER	BHP (HP)	0.9
BLOWER	RPM	2027
COOLING	SENSIBLE (MBH)	40.87
COOLING	TOTAL (MBH)	56.81
COOLING	EADB / EAWB (°F)	80 / 67
COOLING	AMBIENT AIR (°F)	105
COOLING	REFRIGERANT	R-410A
HEATING	INPUT CAP. (MBH)	60
HEATING	OUTPUT CAP. (MBH)	49
HEATING	FUEL	NATURAL
FILTERS	SIZE	16 x 16 x 2
FILTERS	QUANTITY	4
FILTERS	TYPE	MERV-13
	BUILDING	B
	APCD REQUIREMENT	ULTRA LOW NOx
	MANUFACTURER	CARRIER
	TYPE	VERTICAL
	MODEL NUMBER	48GCGM06A3M6-3A0A0
	OPER. WT (LBS)	700
	EXISITNG UNIT WEIGHT	693
	ACCESSORIES	1, 2, 4, 5, 6, 7, 8

*WEIGHT INCLUDES UNIT, CURB, AND INDICATED ACCESSORIES.
1. INTEGRATED MODULATING 0-100% DRY-BULB ECONOMIZER.
2. TITLE-24 COMPLIANT THERMOSTAT WITH INTEGRATED CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
3. TITLE-24 COMPLIANT THERMOSTAT, DCV NOT REQUIRED.
4. COIL GUARD.
5. FIELD MOUNTED FUSED DISCONNECT.
6. SUPPLY DUCT SMOKE DETECTOR (SYSTEM SENSOR D4120). PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS452KEY) TO ELECTRICAL FOR INSTALLATION.
7. TITLE-24 COMPLIANT THERMOSTAT, DCV NOT REQUIRED.
8. SEE DETAIL A14 ON X/M800 FOR ANCHORAGE.

DSA File No.:
DSA File

DSA Application No.:
DSA App

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1143

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
MECHANICAL SCHEDULES

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Architect

No.	Revision/Submission	Date

Revision

Designed By: JCS
Drawn By: BS
Checked By: HB
Reviewed By: HB

Scale: 12" = 1'-0"
Project Number: 2228
Date: 11/29/22

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MECHANICAL SCHEDULES

PACKAGE AIR CONDITIONING SCHEDULE - BLDG E

	DESIGNATION	HC-E1	HC-E2	HC-E3	HC-E4	HC-E5	HC-E6	HC-E7	HC-E8
	VOLTS / PHASE	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3
	MCA	12	12	12	12	12	12	12	12
	MOCP	15	15	15	15	15	15	15	15
	IEER / EER @ ARI	16.1 / -	16.1 / -	16.1 / -	16.1 / -	16.1 / -	16.1 / -	16.1 / -	16.1 / -
BLOWER	SUPPLY AIR (CFM)	1600	1600	1600	1600	1600	1600	1600	1600
	EXT. SP (IN. WC)	1	1	1	1	1	1	1	1
	MIN. O.S.A. (CFM)	-	-	-	-	-	-	-	-
	DCV MIN. O.S.A. (CFM)	-	-	-	-	-	-	-	-
	BHP (HP)	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
	RPM	2114	2114	2114	2114	2114	2114	2114	2114
COOLING	SENSIBLE (MBH)	46.34	46.34	46.34	46.34	46.34	46.34	46.34	46.34
	TOTAL (MBH)	35.15	35.15	35.15	35.15	35.15	35.15	35.15	35.15
	EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
	AMBIENT AIR (°F)	105	105	105	105	105	105	105	105
	REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
HEATING	INPUT CAP. (MBH)	60	60	60	60	60	60	60	60
	OUTPUT CAP. (MBH)	49	49	49	49	49	49	49	49
	FUEL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL
FILTERS	SIZE	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2	16 x 25 x 2
	QUANTITY	2	2	2	2	2	2	2	2
	TYPE	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13
	BUILDING	E	E	E	E	E	E	E	E
	APCD REQUIREMENT	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx
	MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
	TYPE	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL
	MODEL NUMBER	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM05A3M6-3A0A0
	OPER. WT (LBS)	650	650	650	650	650	650	650	650
	EXISTING UNIT WEIGHT	558	558	558	558	558	558	558	558
	ACCESSORIES	1, 3, 4, 5, 7, 8	1, 3, 4, 5, 7, 8	1, 3, 4, 5, 7, 8	1, 3, 4, 5, 7, 8	1, 3, 4, 5, 7, 8	1, 3, 4, 5, 7, 8	1, 3, 4, 5, 7, 8	1, 3, 4, 5, 7, 8

*WEIGHT INCLUDES UNIT, CURB, AND INDICATED ACCESSORIES.
1. INTEGRATED MODULATING 0-100% DRY-BULB ECONOMIZER.
2. TITLE-24 COMPLIANT THERMOSTAT WITH INTEGRATED CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
3. TITLE-24 COMPLIANT THERMOSTAT, DCV NOT REQUIRED.
4. COIL GUARD.
5. FIELD MOUNTED FUSED DISCONNECT.
6. SUPPLY DUCT SMOKE DETECTOR (SYSTEM SENSOR D4120). PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECTRICAL FOR INSTALLATION.
7. PROVIDE WITH FLUE EXTENSION PER J11 ON X/M800.
8. SEE DETAIL A14 ON X/M800 FOR ANCHORAGE.

PACKAGE AIR CONDITIONING SCHEDULE - BLDG G

	DESIGNATION	HC-G1	HC-G2	HC-G3	HC-G4	HC-G5	HC-G6	HC-G7	HC-G8
	VOLTS / PHASE	460 / 3	460 / 3	208 / 1	460 / 3	460 / 3	460 / 3	460 / 3	208 / 1
	MCA	14	12	19.4	14	12	14	12	19.4
	MOCP	20	15	30	20	15	20	15	30
	IEER / EER @ ARI	16.1 / -	16.1 / -	15 / -	16.1 / -	16.1 / -	16.1 / -	16.1 / -	15 / -
BLOWER	SUPPLY AIR (CFM)	2000	1600	800	2000	1600	2000	1600	800
	EXT. SP (IN. WC)	1	1	0.18	1	1	1	1	0.18
	MIN. O.S.A. (CFM)	-	-	-	-	-	-	-	-
	DCV MIN. O.S.A. (CFM)	-	-	-	-	-	-	-	-
	BHP (HP)	0.9	1.02	0.14	0.9	1.02	0.9	1.02	0.14
	RPM	2027	2114	1050	2027	2114	2027	2114	1050
COOLING	SENSIBLE (MBH)	40.87	46.34	16.92	40.87	46.34	40.87	46.34	16.92
	TOTAL (MBH)	56.81	35.15	20.86	56.81	35.15	56.81	35.15	20.86
	EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
	AMBIENT AIR (°F)	105	105	105	105	105	105	105	105
	REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
HEATING	INPUT CAP. (MBH)	60	60	45	60	60	60	60	45
	OUTPUT CAP. (MBH)	49	49	37	49	49	49	49	37
	FUEL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL
FILTERS	SIZE	16 x 16 x 2	16 x 25 x 2	16 x 25 x 2	16 x 16 x 2	16 x 25 x 2	16 x 16 x 2	16 x 25 x 2	16 x 25 x 2
	QUANTITY	4	2	2	4	2	4	2	2
	TYPE	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13
	BUILDING	G	G	G	G	G	G	G	G
	APCD REQUIREMENT	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx
	MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
	TYPE	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL
	MODEL NUMBER	48GCGM06A3M6-3A0A0	48GCGM05A3M6-3A0A0	48VGUE240403-TP	48GCGM06A3M6-3A0A0	48GCGM05A3M6-3A0A0	48GCGM06A3M6-3A0A0	48GCGM05A3M6-3A0A0	48VGUE240403-TP
	OPER. WT (LBS)	700	650	469	700	650	700	650	469
	EXISTING UNIT WEIGHT	693	558	490	693	558	693	558	490
	ACCESSORIES	1, 2, 4, 5, 6, 7, 8	1, 3, 4, 5, 7, 8	1, 3, 4, 5, 7, 8, 9	1, 2, 4, 5, 6, 7, 8	1, 3, 4, 5, 7, 8	1, 2, 4, 5, 6, 7, 8	1, 3, 4, 5, 7, 8	1, 3, 4, 5, 7, 8, 9

*WEIGHT INCLUDES UNIT, CURB, AND INDICATED ACCESSORIES.
1. INTEGRATED MODULATING 0-100% DRY-BULB ECONOMIZER.
2. TITLE-24 COMPLIANT THERMOSTAT WITH INTEGRATED CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
3. TITLE-24 COMPLIANT THERMOSTAT, DCV NOT REQUIRED.
4. COIL GUARD.
5. FIELD MOUNTED FUSED DISCONNECT.
6. SUPPLY DUCT SMOKE DETECTOR (SYSTEM SENSOR D4120). PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECTRICAL FOR INSTALLATION.
7. PROVIDE WITH FLUE EXTENSION PER J11 ON X/M800.
8. SEE DETAIL A14 ON X/M800 FOR ANCHORAGE.
9. PROVIDE ADAPTER CURB FROM MANUFACTURER.

PACKAGE AIR CONDITIONING SCHEDULE - BLDG H

	DESIGNATION	HC-H2	HC-H3	HC-H4	HC-H5	HC-H6	HC-H7	HC-H8
	VOLTS / PHASE	460 / 3	208 / 1	460 / 3	460 / 3	460 / 3	460 / 3	460 / 3
	MCA	14	19.4	20	12	25	25	12
	MOCP	20	30	25	15	30	30	15
	IEER / EER @ ARI	16.1 / -	15 / -	- / -	16.1 / -	15 / 11	15 / 11	16.1 / -
BLOWER	SUPPLY AIR (CFM)	2000	800	3400	1600	4000	4000	1600
	EXT. SP (IN. WC)	1	0.18	1	1	1	1	1
	MIN. O.S.A. (CFM)	-	-	-	-	-	-	-
	DCV MIN. O.S.A. (CFM)	-	-	-	-	-	-	-
	BHP (HP)	0.9	0.14	1.73	1.02	2.44	2.44	1.02
	RPM	2027	1050	1693	2114	1905	1905	2114
COOLING	SENSIBLE (MBH)	40.87	16.92	76.4	46.34	92.8	92.8	46.34
	TOTAL (MBH)	56.81	20.86	95.6	35.15	118	118	35.15
	EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67	80 / 67
	AMBIENT AIR (°F)	105	105	105	105	105	105	105
	REFRIGERANT	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
HEATING	INPUT CAP. (MBH)	60	45	125	60	180	180	60
	OUTPUT CAP. (MBH)	49	37	103	49	148	148	49
	FUEL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL	NATURAL
FILTERS	SIZE	16 x 16 x 2	16 x 25 x 2	20 x 20 x 2	16 x 25 x 2	20 x 20 x 2	20 x 20 x 2	16 x 16 x 2
	QUANTITY	4	2	4	2	4	4	4
	TYPE	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13	MERV-13
	BUILDING	H	H	H	H	H	H	H
	APCD REQUIREMENT	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx
	MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
	TYPE	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL	VERTICAL
	MODEL NUMBER	48GCGM06A3M6-30A0	48VGUE240403-TP	48FCDM09A3M6-3A0A0	48GCGM05A3M6-3A0A0	48FCDM12A3M6-3A0A0	48FCDM12A3M6-3A0A0	48GCGM05A3M6-3A0A0
	OPER. WT (LBS)	700	469	1000	650	1000	1000	700
	EXISTING UNIT WEIGHT	693	490	934	558	1410	1410	693
	ACCESSORIES	1, 2, 4, 5, 6, 7, 8	1, 3, 4, 5, 7, 8, 9	1, 2, 4, 5, 6, 7, 8	1, 2, 4, 5, 7, 8	1, 2, 4, 5, 6, 7, 8	1, 2, 4, 5, 6, 7, 8	1, 2, 4, 5, 7, 8

*WEIGHT INCLUDES UNIT, CURB, AND INDICATED ACCESSORIES.
1. INTEGRATED MODULATING 0-100% DRY-BULB ECONOMIZER.
2. TITLE-24 COMPLIANT THERMOSTAT WITH INTEGRATED CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
3. TITLE-24 COMPLIANT THERMOSTAT, DCV NOT REQUIRED.
4. COIL GUARD.
5. FIELD MOUNTED FUSED DISCONNECT.
6. SUPPLY DUCT SMOKE DETECTOR (SYSTEM SENSOR D4120). PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECTRICAL FOR INSTALLATION.
7. PROVIDE WITH FLUE EXTENSION PER J11 ON X/M800.
8. SEE DETAIL A14 ON X/M800 FOR ANCHORAGE.
9. PROVIDE ADAPTER CURB FROM MANUFACTURER.

EXHAUST FAN SCHEDULE

DESIGNATION	EF-B1
CFM	300
EXT. SP (IN. WC)	0.5"
HP / BHP	0.25 / 0.096
VOLTS / PHASE	115 / 1
RPM	983
TIP SPEED / SONES	39 / 6.8
DRIVE	BELT
MOUNTING	ROOF
MANUFACTURER	COOK
TYPE	UPBLAST
MODEL NUMBER	135 ACRUB OR91
FILTER	NONE
LOCATION	BLDG B
OPER. WT. (LBS)	45
ACCESSORIES	1, 2

1. PROVIDE BACKDRAFT DAMPER, AND MANUFACTURER'S ROOF CURB.
2. SEE DETAIL E14 ON X/M800 FOR ANCHORAGE.

PACKAGE AIR CONDITIONING SCHEDULE - BLDG J

	DESIGNATION	HC-J1	HC-J2	HC-J3
	VOLTS / PHASE	460 / 3	208 / 1	460 / 3
	MCA.	15	19.4	15
	MOCP	20	30	20
	IEER / EER @ ARI	15/ 11	15 / -	15/ 11
BLOWER	SUPPLY AIR (CFM)	2400	800	2400
	EXT. SP (IN. WC)	1	0.18	1
	MIN. O.S.A. (CFM)	-	-	-
	DCV MIN. O.S.A. (CFM)	-	-	-
	BHP (HP)	01.65	0.14	01.65
	RPM	2489	1050	2489
COOLING	SENSIBLE (MBH)	53.7	16.92	53.7
	TOTAL (MBH)	68.16	20.86	68.16
	EADB / EAWB (°F)	80 / 67	80 / 67	80 / 67
	AMBIENT AIR (°F)	105	105	105
	REFRIGERANT	R-410A	R-410A	R-410A
HEATING	INPUT CAP. (MBH)	110	45	110
	OUTPUT CAP. (MBH)	88	37	88
	FUEL	NATURAL	NATURAL	NATURAL
FILTERS	SIZE	16 x 16 x 2	16 x 25 x2	16 x 16 x 2
	QUANTITY	4	4	4
	TYPE	MERV-13	MERC-13	MERV-13
	BUILDING	J	J	J
	APCD REQUIREMENT	ULTRA LOW NOx	ULTRA LOW NOx	ULTRA LOW NOx
	MANUFACTURER	CARRIER	CARRIER	CARRIER
	TYPE	VERTICAL	VERTICAL	VERTICAL
	MODEL NUMBER	48FCEM07A3M6-3A0A0	48VGUE240403-TP	48FCEM07A3M6-3A0A0
	OPER. WT (LBS)	700	469	700
	EXISTING UNIT WEIGHT	748	490	748
	ACCESSORIES	1, 2, 4, 5, 6, 7, 8	1, 3, 4, 5, 7, 8	1, 2, 4, 5, 6, 7, 8

1. TXV, CEC TITLE 24 COMPLIANT INTEGRATED ECONOMIZER (MICROMETL), SEISMIC CALCULATED ROOF CURB SLOPED TO MATCH ROOF W/ VIBRATION ISOLATION (MICROMETL), AND PROGRAMMABLE THERMOSTAT.
2. MODULATING POWER EXHAUST.
3. CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
4. FURNISH AND INSTALL DUCT SMOKE DETECTOR IN SUPPLY DROP (SYSTEM SENSOR 'D4120' SERIES) WITH SAMPLING TUBE OF LENGTH AS REQUIRED TO MATCH DUCT DIMENSION. PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH 'RTS451KEY' TO ELECTRICAL FOR INSTALLATION.
5. FIELD MOUNTED FUSED DISCONNECT.
6. SUPPLY DUCT SMOKE DETECTOR (SYSTEM SENSOR D4120). PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR UNIT SHUTDOWN UPON DETECTION OF SMOKE. FURNISH REMOTE TEST SWITCH (RTS451KEY) TO ELECRRICAL FOR INSTALLATION.
7.PROVIDE WITH FLUE EXTENSION PER J11 ON X/M800.
8. SEE DETAIL A14 ON X/M800 FOR ANCHORAGE.

DSA File No.:
DSA File

DSA Application No.:
DSA App

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1143

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
MECHANICAL SCHEDULES

Drawing

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ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

Architect

No.	Revision/Submission	Date

Revision

Designed By: JCS
Drawn By: Author
Checked By: HB
Reviewed By: HB

Scale: 12" = 1'-0"
Project Number: 2228
Date: 11/29/22

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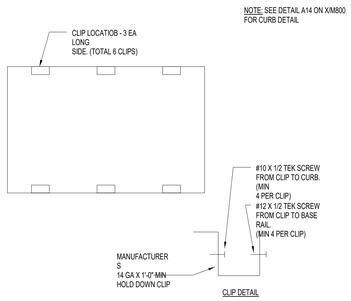
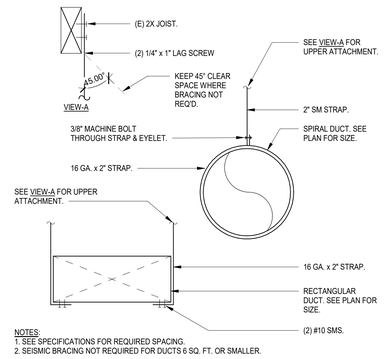
X/M103

2/15/2023 7:29:56 AM



N7 — CLIPS FOR UNITS UNDER1,500 LBS

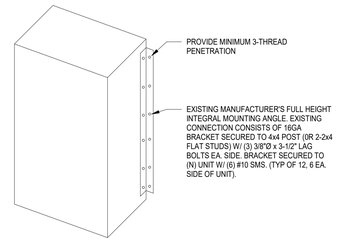
NTS



NOTES:
1. SEE SPECIFICATIONS FOR REQUIRED SPACING.
2. SEISMIC BRACING NOT REQUIRED FOR DUCTS 6 SQ. FT. OR SMALLER.

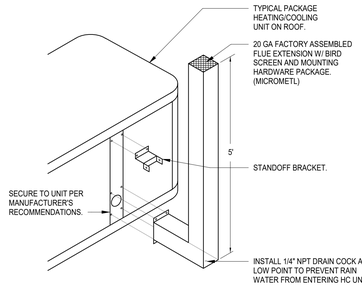
N11 — DUCT SUPPORT

NTS



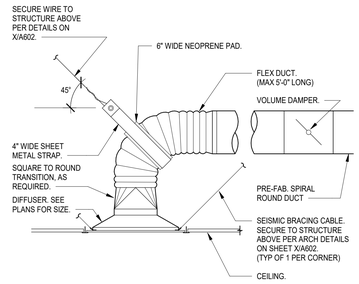
N14 — WALL HEAT PUMP

NTS



J11 — PACKAGE UNIT FLUE EXTENSION

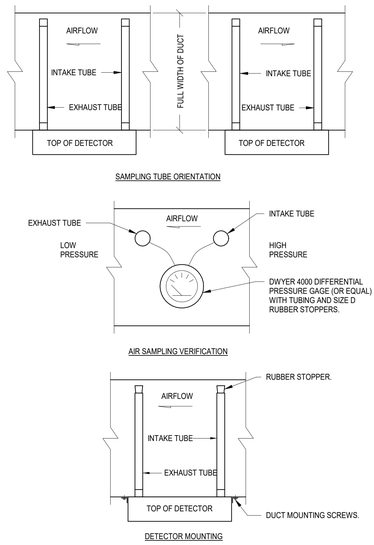
NTS



NOTES:
1. RETURN AND EXHAUST AIR REGISTERS SIMILAR.
2. INSTALL VOLUME DAMPER ON BRANCH DUCT AS CLOSE TO DUCT MAIN AS POSSIBLE.

J14 — CEILING GRILLES

NTS

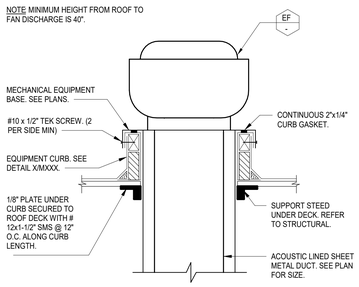


NOTES:
1. MOUNT DUCT DETECTOR IN SA DUCT UPSTREAM OF BRANCH TAKE-OFFS.
2. UPON DETECTION OF SMOKE UNITS SHALL BE SHUT-DOWN AUTOMATICALLY.
3. PROVIDE INTERLOCKS TO SHUT DOWN UNIT AS REQUIRED.
4. PROVIDE INTERLOCKS TO ACTIVATE ALARM SYSTEM PER CMC 608.

DUCT DETECTOR

A11 — MD13-CONTROL18

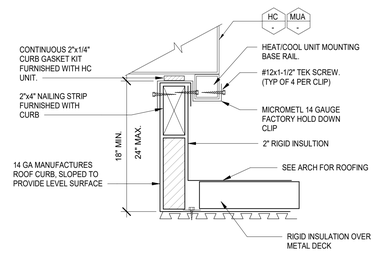
NTS



EXHAUST FAN (UPBLAST) ON CURB

E14 — EXHAUST FAN (UPBLAST) ON CURB

NTS



NOTES:
A. REFER TO DETAIL N7 ON X/M800 FOR ANGLE CLIP SPACING FOR EACH UNIT

A14 — AHU/MUA ON METAL CURB

NTS

DSA File No.:
DSA File

DSA Application No.:
DSA App

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1143

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
MECHANICAL DETAILS

Drawing

darden architects
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com

Architect

No.	Revision/Submission	Date

Revision

Designed By: JCS
Drawn By: Author
Checked By: HB
Reviewed By: HB

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Scale: As indicated
Project Number: 2228
Date: 11/29/22

X/M800

2/16/2023 7:27:56 AM

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

Darden - Panama BV Warren
4615 Mountain Vista Dr
Bakersfield, CA 93311

Project Designer:

Report Prepared by:

Net Positive Consulting Engineers
1446 Tollhouse Rd. #102
Clovis, CA 93611
559.940.7293

Job Number:

1143

Date:

11/29/2022

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2019 Building Energy Efficiency Standards.

This program developed by EnergySoft Software – www.energysoft.com.

TABLE OF CONTENTS

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Form PRF-01-E Certificate of Compliance	3
Form NRCC-PLB-E Domestic Water Heating System	22

A. GENERAL INFORMATION

1	Project Location (city)	Bakersfield	8	Standards Version	Compliance2019
2	CA Zip Code	93311	9	Compliance Software (version)	EnergyPro 8.3
3	Climate Zone	13	10	Weather File	BAKERSFIELD_723840_CZ2010.epw
4	Total Conditioned Floor Area in Scope	52,030 ft²	11	Building Orientation (deg)	(N) 0 deg
5	Total Unconditioned Floor Area	454 ft²	12	Permitted Scope of Work	Existing/Alteration
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively	
Envelope (see Table G)	☐ Performance	Covered Process: Commercial Kitchens	☐ Performance		*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☒ Not Included		☒ Not Included			
Mechanical (see Table H)	☒ Performance	Covered Process: Computer Rooms	☐ Performance		Indoor Lighting (Unconditioned§140.6	NRCC-LTI-E
	☐ Not Included		☒ Not Included		Outdoor Lighting §140.7	NRCC-LTO-E
Domestic Hot Water (see Table I)	☒ Performance	Covered Process: Laboratory Exhaust	☐ Performance		Sign Lighting §140.8	NRCC -LTS-E
	☐ Not Included		☒ Not Included		Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☐ Performance				*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☒ Not Included				Electrical Power Distribution §110.11.	NRCC-ELC-E
Solar Thermal Water Heating (see Table J)	☐ Performance				Commissioning §120.8	NRCC-CXR-E
	☒ Not Included				Solar Ready §110.10	NRCC-SRA-E

C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft²-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	20.09	10.88	9.21
Space Cooling	165.52	111.95	53.67
Indoor Fans	68.25	109.82	-41.57
Heat Rejection	--	--	--
Pumps & Misc.	0.14	--	0.14
Domestic Hot Water	9.61	6.29	3.32
Indoor Lighting	40.94	40.94	--
ENERGY STANDARDS COMPLIANCE TOTAL	**304.55**	**279.78**	**24.77 (8.1%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.*

C2. RESULTS FOR "ABOVE CODE" QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	72.87	72.87	--
Process	--	--	--
Other Ltg	69.95	69.95	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**447.37**	**422.60**	**24.8 (5.5%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.0	10.6	-10.6	544.2	145.8	398.4
Space Cooling	220.1	140.9	79.2	--	--	--
Indoor Fans	114.0	199.4	-85.4	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	0.3	--	0.3	--	--	--
Domestic Hot Water	3.5	--	3.5	223.8	182.4	41.4
Indoor Lighting	76.2	76.2	0.0	--	--	-->
Compliance Total	**414.1**	**427.1**	**-13.0**	**768.0**	**328.2**	**439.8**
Receptacle	138.0	138.0	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	130.2	130.2	0.0	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**682.3**	**695.3**	**-13.0**	**768.0**	**328.2**	**439.8**

D. EXCEPTIONAL CONDITIONS

The user model includes space(s) that are designed to be served by mechanical cooling systems, but the cooling systems were not included in the simulation model. A cooling system has been modeled for both the proposed and standard cases.

The user model includes space(s) without sufficient cooling equipment. Cooling equipment has been added to the model to meet cooling loads.

E. HERS VERIFICATION

This Section Does Not Apply

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
HC-B1	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	55	SEER/EER	16.10/12.50	NoEconomizer	N
HC-C1	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-C2	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-C3	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-C4	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-C5	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-C6	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-C7	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-C8	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-E1	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-E2	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-E3	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-E4	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-E5	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-E6	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-E7	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-E8	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-G1	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	55	SEER/EER	16.10/12.50	NoEconomizer	N
HC-G2	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-G3	SZAC (Packaged3Phase)	1	37	0	AFUE	81.0	20	SEER/EER	15.00/12.00	DifferentialEnthalpy	N
HC-G4	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	55	SEER/EER	16.10/12.50	NoEconomizer	N
HC-G5	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-G6	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	55	SEER/EER	16.10/12.50	NoEconomizer	N

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
HC-G7	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-G8	SZAC (Packaged3Phase)	1	37	0	AFUE	81.0	20	SEER/EER	15.00/12.00	DifferentialEnthalpy	N
HC-H1 (H6) (H7)	SZAC (Packaged3Phase)	3	148	0	AFUE	81.0	113	EER	11.0	DifferentialEnthalpy	N
HC-H2	SZAC (Packaged3Phase)	1	49	0	AFUE	81.0	55	SEER/EER	16.10/12.50	NoEconomizer	N
HC-H3	SZAC (Packaged3Phase)	1	37	0	AFUE	81.0	20	SEER/EER	15.00/12.00	DifferentialEnthalpy	N
HC-H4	SZAC (Packaged3Phase)	1	103	0	AFUE	81.0	92	EER	11.0	DifferentialEnthalpy	N
HC-H8 (H5)	SZAC (Packaged3Phase)	2	49	0	AFUE	81.0	44	SEER/EER	16.10/12.00	DifferentialEnthalpy	N
HC-I1	SZAC (Packaged3Phase)	1	88	0	AFUE	81.0	65	EER	11.0	DifferentialEnthalpy	N
HC-I2	SZAC (Packaged3Phase)	1	37	0	AFUE	81.0	20	SEER/EER	15.00/12.00	DifferentialEnthalpy	N
HC-I3	SZAC (Packaged3Phase)	1	88	0	AFUE	81.0	65	EER	11.0	DifferentialEnthalpy	N
HP-1	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-2	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-3	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-4	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-5	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-6	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-7	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-8	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-9	SZHP (Packaged3Phase)	2	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-10	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-11	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-12	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N
HP-13	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N

H1. DRY SYSTEM EQUIPMENT (furnaces, air handling units, heat pumps, VRF, economizers etc.)

1	2	3	4	5	6	7	8	9	10	11	12
			Heating				Cooling				
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtuh)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
HP-14	SZHP (Packaged3Phase)	1	55	0	HSPF	11.25	48	SEER/EER	14.00/11.00	DifferentialEnthalpy	N

[1] *Status: N – New, A – Altered, E – Existing*

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Design OA			Supply Fan					Return Fan			
Name or Item Tag	Qty	CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	Status[1]
HC-B1	1	453	2000	BrakeHorsePower	0.900	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-C1	1	354	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-C2	1	357	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-C3	1	357	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-C4	1	354	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-C5	1	354	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-C6	1	357	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-C7	1	357	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-C8	1	354	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-E1	1	354	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-E2	1	357	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-E3	1	357	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-E4	1	354	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-E5	1	354	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-E6	1	357	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-E7	1	357	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Design OA			Supply Fan					Return Fan			
Name or Item Tag	Qty	CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	Status[1]
HC-E8	1	354	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-G1	1	480	2000	BrakeHorsePower	0.900	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-G2	1	378	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-G3	1	96	800	BrakeHorsePower	0.140	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-G4	1	483	2000	BrakeHorsePower	0.900	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-G5	1	357	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-G6	1	480	2000	BrakeHorsePower	0.900	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-G7	1	473	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-G8	1	442	800	BrakeHorsePower	0.140	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-H1 (H6) (H7)	3	729	4000	BrakeHorsePower	2.440	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-H2	1	408	2000	BrakeHorsePower	0.900	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-H3	1	252	800	BrakeHorsePower	0.140	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-H4	1	780	3400	BrakeHorsePower	1.730	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-H8 (H5)	2	319	1600	BrakeHorsePower	1.020	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-I1	1	573	3400	BrakeHorsePower	1.730	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-I2	1	85	800	BrakeHorsePower	0.140	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HC-I3	1	562	3400	BrakeHorsePower	1.730	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-1	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-2	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-3	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-4	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-5	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-6	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-7	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-8	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

H2. FAN SYSTEMS SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Design OA			Supply Fan					Return Fan			
Name or Item Tag	Qty	CFM	CFM	Modeling Method	Power	Power Units	Control	CFM	Modeling Method	Power	Power Units	Control	Status[1]
HP-9	2	375	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-10	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-11	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-12	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-13	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N
HP-14	1	360	1700	BrakeHorsePower	0.750	bhp	ConstantVolume	NA	NA	NA	NA	NA	N

[1] *Status: N – New, A – Altered, E – Existing*

H3. EXHAUST FAN SUMMARY

1	2	3	4	5	6	7	8
System ID	Zone Name	Qty	CFM	Motor BHP	Power Per Flow (W/cfm)	Total Static Pressure (in. H_2O)	Status[1]
HC B13	1-HC B1	1	295	0.096	0.284	1.34	E

[1] *Status: N – New, A – Altered, E – Existing*

H4. Wet System Equipment(boilers,chillers,cooling towers,etc.)

This Section Does Not Apply

H5. PUMPS

This Section Does Not Apply

H6. SYSTEM SPECIAL FEATURES

1	2	3	4
System Name	Equipment Type	Window Interlocks per §140.4(n)	Other Special Features and Controls
HC-C1	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer

H6. SYSTEM SPECIAL FEATURES

1	2	3	4
System Name	Equipment Type	Window Interlocks per §140.4(n)	Other Special Features and Controls
HC-C2	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-C3	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-C4	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-C5	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-C6	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-C7	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-C8	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-E1	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-E2	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-E3	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-E4	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-E5	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-E6	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-E7	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-E8	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer

H6. SYSTEM SPECIAL FEATURES

1	2	3	4
System Name	Equipment Type	Window Interlocks per §140.4(n)	Other Special Features and Controls
HC-G2	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-G3	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-G5	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-G7	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-G8	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-H1 (H6) (H7)	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-H3	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-H4	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-H8 (H5)	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-I1	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-I2	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HC-I3	SZAC	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-1	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-2	SZHP	NA	Zones With CO2Sensor Vent.

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H6. SYSTEM SPECIAL FEATURES

1	2	3	4
System Name	Equipment Type	Window Interlocks per §140.4(n)	Other Special Features and Controls
HP-4	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-5	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-6	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-7	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-8	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-9	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-10	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-11	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-12	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-13	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
HP-14	SZHP	NA	Zones With CO2Sensor Vent. Control Differential Enthalpy Economizer
Undefined Plant1 - SHW	Service Hot Water, Primary Only	NA	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

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H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation					DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
1-HC B1	Education - Classrooms (ages 9-18)	29.82	453	295	1193	NA
2-HC C1	Education - Classrooms (ages 9-18)	23.61	354	0	945	DCV
3-HC C2	Education - Classrooms (ages 9-18)	23.81	357	0	953	DCV
4-HC C3	Education - Classrooms (ages 9-18)	23.81	357	0	953	DCV
5-HC C4	Education - Classrooms (ages 9-18)	23.61	354	0	945	DCV
6-HC C5	Education - Classrooms (ages 9-18)	23.61	354	0	945	DCV
7-HC C6	Education - Classrooms (ages 9-18)	23.81	357	0	953	DCV
8-HC C7	Education - Classrooms (ages 9-18)	23.81	357	0	953	DCV
9-HC C8	Education - Classrooms (ages 9-18)	23.61	354	0	945	DCV
10-HC E1	Education - Classrooms (ages 9-18)	23.61	354	0	945	DCV
11-HC E2	Education - Classrooms (ages 9-18)	23.81	357	0	953	DCV
12-HC E3	Education - Classrooms (ages 9-18)	23.81	357	0	953	DCV
13-HC E4	Education - Classrooms (ages 9-18)	23.61	354	0	945	DCV
14-HC E5	Education - Classrooms (ages 9-18)	23.61	354	0	945	DCV
15-HC E6	Education - Classrooms (ages 9-18)	23.81	357	0	953	DCV
16-HC E7	Education - Classrooms (ages 9-18)	23.81	357	0	953	DCV
17-HC E8	Education - Classrooms (ages 9-18)	23.61	354	0	945	DCV
18-HC G1	Education - Classrooms (ages 9-18)	31.55	480	0	1262	NA
19-HC G2	Education - Classrooms (ages 9-18)	25.19	378	0	1007	DCV
20-HC G3	Education - Classrooms (ages 9-18)	6.38	96	0	255	DCV
21-HC G4	Education - Classrooms (ages 9-18)	31.75	483	0	1270	NA
22-HC G5	Education - Classrooms (ages 9-18)	23.81	357	0	953	DCV
23-Science G-10	Education - Classrooms (ages 9-18)	31.55	480	0	1262	NA
24-HC G7	Education - Classrooms (ages 9-18)	31.55	473	0	1262	DCV

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H7. NONRESIDENTIAL VENTILATION

1	2	3	4	5	6	7
Zone Name	Mechanical Ventilation					DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of people	Supply OA CFM	Exhaust CFM	Conditioned Area (sf)	
25-HC G8	Education - Classrooms (ages 9-18)	29.44	442	0	1178	DCV
26-HC H1 (H6) (H7)	Education - Multiuse assembly	145.79	2187	0	4374	DCV
28-HC H2	Education - Classrooms (ages 9-18)	26.84	408	0	1074	NA
29-HC H3	Education - Classrooms (ages 9-18)	16.79	252	0	672	DCV
30-HC H4	Education - Classrooms (ages 9-18)	52.02	780	0	2081	DCV
31-HC H8	Education - Multiuse assembly	42.54	638	0	1276	DCV
32-HC-J1	Education - Classrooms (ages 9-18)	38.23	573	0	1529	DCV
33-HC-J2.1	Education - Classrooms (ages 9-18)	5.70	85	0	228	DCV
34-HC-J3	Education - Classrooms (ages 9-18)	37.46	562	0	1498	DCV
35-HP-1	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
36-HP-2	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
37-HP-3	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
38-HP-4	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
39-HP-5	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
40-HP-6	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
41-HP-7	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
42-HP-8	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
43-HP-9	Education - Classrooms (ages 9-18)	50.00	750	0	2000	DCV
44-HP-10	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
45-HP-11	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
46-HP-12	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
47-HP-13	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV
48-HP-14	Education - Classrooms (ages 9-18)	24.00	360	0	960	DCV

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H8. HIGH-RISE RESIDENTIAL DWELLING UNIT AND HOTEL/MOTEL VENTILATION

This Section Does Not Apply

H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13
System ID	Zone Name	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
				Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
1-HC B1-Trm	1-HC B1	Uncontrolled	1	NA	NA	2000	NA	0.00	0.900	bhp	NA	☐
2-HC C1-Trm	2-HC C1	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
3-HC C2-Trm	3-HC C2	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
4-HC C3-Trm	4-HC C3	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
5-HC C4-Trm	5-HC C4	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
6-HC C5-Trm	6-HC C5	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
7-HC C6-Trm	7-HC C6	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
8-HC C7-Trm	8-HC C7	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
9-HC C8-Trm	9-HC C8	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
10-HC E1-Trm	10-HC E1	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
11-HC E2-Trm	11-HC E2	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
12-HC E3-Trm	12-HC E3	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
13-HC E4-Trm	13-HC E4	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
14-HC E5-Trm	14-HC E5	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
15-HC E6-Trm	15-HC E6	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
16-HC E7-Trm	16-HC E7	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
17-HC E8-Trm	17-HC E8	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
18-HC G1-Trm	18-HC G1	Uncontrolled	1	NA	NA	2000	NA	0.00	0.900	bhp	NA	☐
19-HC G2-Trm	19-HC G2	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
20-HC G3-Trm	20-HC G3	Uncontrolled	1	NA	NA	800	NA	0.00	0.140	bhp	NA	☐
21-HC G4-Trm	21-HC G4	Uncontrolled	1	NA	NA	2000	NA	0.00	0.900	bhp	NA	☐

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H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13
System ID	Zone Name	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
				Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
22-HC G5-Trm	22-HC G5	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
23-Science G-10-Trm	23-Science G-10	Uncontrolled	1	NA	NA	2000	NA	0.00	0.900	bhp	NA	☐
24-HC G7-Trm	24-HC G7	Uncontrolled	1	NA	NA	1600	NA	0.00	1.020	bhp	NA	☐
25-HC G8-Trm	25-HC G8	Uncontrolled	1	NA	NA	800	NA	0.00	0.140	bhp	NA	☐
26-HC H1 (H6) (H7)-Trm	26-HC H1 (H6) (H7)	Uncontrolled	3	NA	NA	12000	NA	0.00	2.440	bhp	NA	☐
28-HC H2-Trm	28-HC H2	Uncontrolled	1	NA	NA	2000	NA	0.00	0.900	bhp	NA	☐
29-HC H3-Trm	29-HC H3	Uncontrolled	1	NA	NA	800	NA	0.00	0.140	bhp	NA	☐
30-HC H4-Trm	30-HC H4	Uncontrolled	1	NA	NA	3400	NA	0.00	1.730	bhp	NA	☐
31-HC H8-Trm	31-HC H8	Uncontrolled	2	NA	NA	3200	NA	0.00	1.020	bhp	NA	☐
32-HC-J1-Trm	32-HC-J1	Uncontrolled	1	NA	NA	3400	NA	0.00	1.730	bhp	NA	☐
33-HC-J2.1-Trm	33-HC-J2.1	Uncontrolled	1	NA	NA	800	NA	0.00	0.140	bhp	NA	☐
34-HC-J3-Trm	34-HC-J3	Uncontrolled	1	NA	NA	3400	NA	0.00	1.730	bhp	NA	☐
35-HP-1-Trm	35-HP-1	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐
36-HP-2-Trm	36-HP-2	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐
37-HP-3-Trm	37-HP-3	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐
38-HP-4-Trm	38-HP-4	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐
39-HP-5-Trm	39-HP-5	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐
40-HP-6-Trm	40-HP-6	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐
41-HP-7-Trm	41-HP-7	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐
42-HP-8-Trm	42-HP-8	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐
43-HP-9-Trm	43-HP-9	Uncontrolled	2	NA	NA	3400	NA	0.00	0.750	bhp	NA	☐
44-HP-10-Trm	44-HP-10	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐
45-HP-11-Trm	45-HP-11	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐

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H9. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13
System ID	Zone Name	System Type	Qty	Rated Capacity (kBtuh)		Airflow (cfm)			Fan			
				Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	VSD
46-HP-12-Trm	46-HP-12	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐
47-HP-13-Trm	47-HP-13	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐
48-HP-14-Trm	48-HP-14	Uncontrolled	1	NA	NA	1700	NA	0.00	0.750	bhp	NA	☐

H10. EVAPORATIVE COOLER SUMMARY

This Section Does Not Apply

H11. HEAT RECOVERY SUMMARY

This Section Does Not Apply

I1. WATER HEATER EQUIPMENT SUMMARY

1	2	3	4	5	6	7	8	9	10	11	12	13	14
Name	Heater Element Type	Tank Type	Qty	Tank Vol (gal)	Rated Input	Rated Input Unit	Efficiency	Efficiency Unit	Tank Insulation R-value (Int/Ext)	Standby Loss Fraction	1st Hour Rating or Flow Rate (gal)	Heat Pump Type	Tank Location or Ambient Condition
A.O. Smith2	Gas	Storage	1	50.00	42	kBtu/h	0.68	UEF	NA	NA	80	NA	NA

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L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents bust be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings

Project Name:	Warren Jr. High School	NRCC-PRF-01-E	Page 18 of 19
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M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Mechanical	NRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
	NRCA-MCH-03-A Constant Volume Single Zone HVAC
	NRCA-MCH-05-A Air Economizer Controls
	NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints
	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
	NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance

Project Name:	Warren Jr. High School	NRCC-PRF-01-E	Page 19 of 19
Project Address:	4615 Mountain Vista Dr Bakersfield 93311	Calculation Date/Time:	15:57, Tue, Nov 29, 2022
Input File Name:	1143-T24.cibd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Breahna Shahan	Signature:	
Company: Net Positive Consulting Engineers		
Address: 1446 Tollhouse Rd. #102	Signature Date: 2022-11-29	
City/State/Zip: Clovis CA 93611	CEA/ HERS Certification Identification (if applicable):	
Phone: 559.940.7293		

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Lighting Designer Name:	Signature: NOT IN SCOPE	
Company:		
Address:	Date Signed:	
City/State/Zip:		
Phone:	Title:	License #:
Responsible Mechanical Designer Name: Jonathan Schlundt	Signature: [signature]	
Company: Net Positive Consulting Engineers		
Address: 1446 Tollhouse Rd Suite 102	Date Signed: 2022-11-29	
City/State/Zip: Clovis CA 93611		
Phone: 559.940.7293	Title: Mechanical Engineer	License #: M35955

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in §110.1, §110.3, §120.3, and §140.5, and with requirements in §141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in §110.1, §110.3, §120.3, §150.0 and §150.1(c)8, and with requirements §150.2 for additions.			
Project Name:	Darden - Panama BV Warren	Report Page:	(Page 1 of 6)
Project Address:	4615 Mountain Vista Dr	Date Prepared:	11/29/2022

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	02 Climate Zone	13
03	Occupancy Types Within Project (select all that apply):			
☒ Nonresidential		☐ High-Rise Residential	☐ Hotel/Motel	
☐ State Building		☐ Healthcare Facility	☐ Other (Write In)	

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in §140.5, §150.1(c)8, and §141.0(a), or §141.0(b)2N for additions or alterations. Solar water heating systems are documented on the NRCC-SRA compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type[1,2]	System Components		
☒ New system (DHW system being installed for the first time in newly constructed building)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1]FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.

[2] Dwelling units refers to hotel/motel guest rooms and units in a high-rise residential occupancy.

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Darden - Panama BV Warren	Report Page:	(Page 2 of 6)
Project Address:	4615 Mountain Vista Dr	Date Prepared:	11/29/2022

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	Compliance Results
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
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F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in §110.1 and §110.3. For high-rise residential and hotel/motel occupancies, compliance with prescriptive requirements in §150.1(c)8 must also be demonstrated and with §150.2 for addition and alteration scopes.

Equipment Schedule: Individual Systems

01	02	03	04	05	06
Name or Item Tag	Equipment Type	Volume (gal)	Max GPM/ First Hour Rating (FHR)	Rated Uniform Energy Factor (UEF)	Minimum Required Uniform Energy Factor (UEF)[1]
A.O. Smith	Gas-Fired Storage (75,000 BTUH)	41-50	FHR >=75	0.68	0.63

[1]FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-12. Label required per §110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per §110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per §110.3(c)6

G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in §120.3 and §140.5. For high-rise residential and hotel/motel occupancies, compliance is demonstrated with requirements §110.3(c), §120.3, §150.0, §150.1

Mandatory Pipe Insulation All Occupancies

12	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per §120.3 : • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
13	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per §120.3(b) and §150.0(j)3

DSA File No.:
DSA File

DSA Application No.:
DSA App

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1143

REGISTERED PROFESSIONAL ENGINEER JONATHAN C. SCHLUNDT M35955 Exp. 06-30-24 MECHANICAL STATE OF CALIFORNIA

Consultant

WARREN JR. HIGH SCHOOL

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION

TITLE 24 DOCUMENTATION

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: JCS	Copyright 2022 Darden Architects
Scale:	Drawn By: Author	X/M901
Project Number: 2228	Checked By: HB	
Date: 11/29/22	Reviewed By: HB	

2/16/2023 7:28:35 AM

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
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G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

TABLE 120.3-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)		
			< 1	1 to < 1.5	1.5 to < 4
			Minimum Insulation Required		
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in §110.3 for all occupancies. For high-rise residential and hotel/motel occupancies, compliance is also demonstrated with requirements in §150.1(c)8.

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per §110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per §110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per §150.1(c)8Bii, or §150.2 for additions or alterations.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per §150.1(c)8.
06	☐	☐	☒	For replacement single heat pump water heaters serving individual dwelling units in climate zone 1-15, design includes communication interface that meets demand responsive control requirements of §110.12(a) per §150.2(b1)Hiii.

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Darden - Panama BV Warren	**Report Page:**	**(Page 5 of 6)**
Project Address:	4615 Mountain Vista Dr	**Date Prepared:**	11/29/2022

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-PLB-01-E - Must be submitted for all buildings	☐	☐

J.DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to service water heating requirements.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

STATE OF CALIFORNIA

Domestic Water Heating System

NRCC-PLB-E

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	Darden - Panama BV Warren	**Report Page:**	**(Page 6 of 6)**
Project Address:	4615 Mountain Vista Dr	**Date Prepared:**	11/29/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Breahna Shahan	Documentation Author Signature:
Company: Net Positive Consulting Engineers	Signature Date: 2022-11-29
Address: 1446 Tollhouse Rd. #102	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Clovis CA 93611	Phone: 559.940.7293

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Jonathan Schlundt	Responsible Designer Signature:
Company: Net Positive Consulting Engineers	Date Signed: 2022-11-29
Address: 1446 Tollhouse Rd Suite 102	License: M35955
City/State/Zip: Clovis CA 93611	Phone: 559.940.7293

DSA File No.:
DSA File

DSA Application No.:
DSA App

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1143

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
TITLE 24 DOCUMENTATION

Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: JCS
Drawn By: Author
Checked By: HB
Reviewed By: HB

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Scale:
Project Number: 2228
Date: 11/29/22

X/M902

2/16/2023 7:28:35 AM

DSA File No.:
15-95

DSA Application No.:
03-122615

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APP: 03-122615 INC:
REVIEWED FOR
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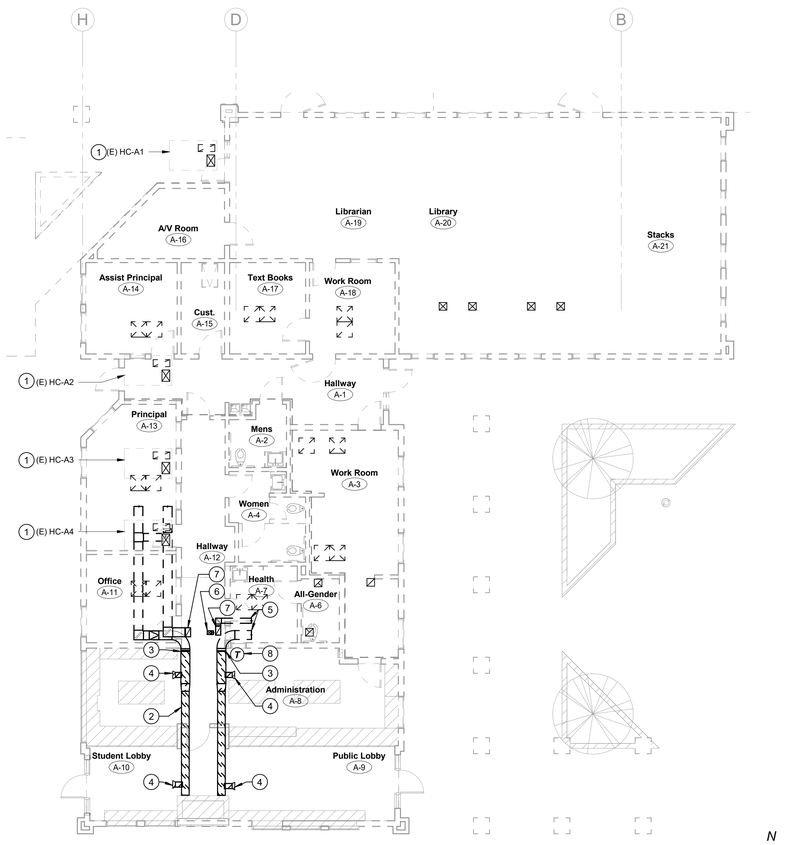
DATE: 07/20/2023

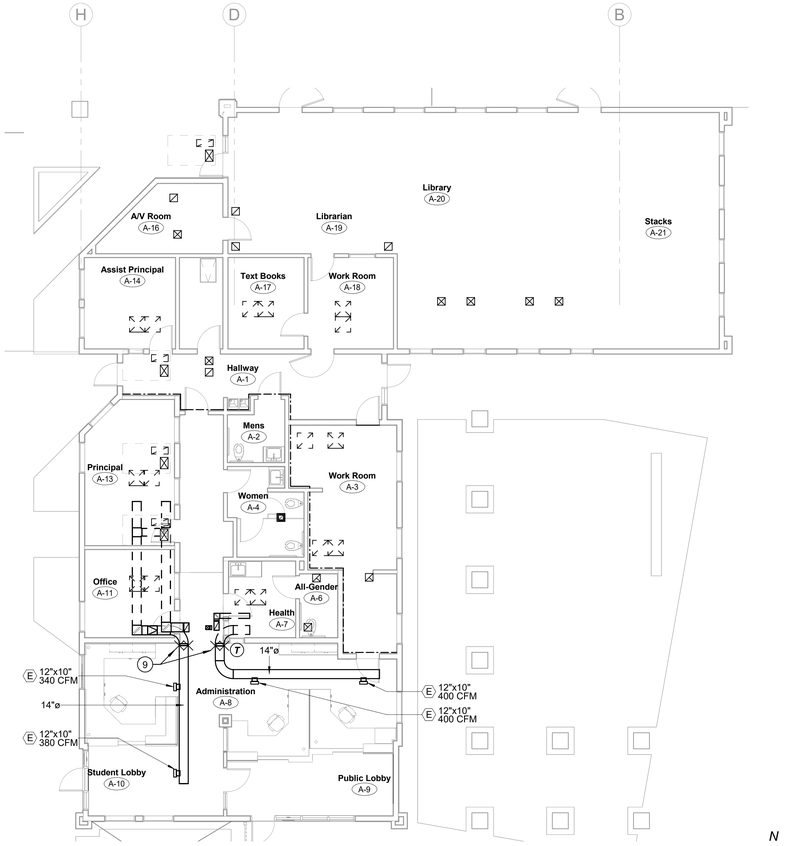
Agency Approval

KEYNOTES (#)

1 (E) ROOF TOP PACKAGE UNIT TO REMAIN.
2 REMOVE (E) DUCT SHOWN HATCHED. TYP.
3 CAP (E) 14"Ø DUCT FOR FUTURE POC.
4 REMOVE (E) SIDE WALL SA DIFFUSER.
5 (E) SA AND RA DUCT FROM (E) HC-A2 TO REMAIN.
6 (E) EA DUCT UP THRU ROOF TO (E) EXHAUST FAN TO REMAIN.
7 (E) RETURN AIR REGISTER TO REMAIN.
8 (E) WALL THERMOSTAT TO REMAIN. PROTECT FROM CONSTRUCTION .
9 POC OF 14"Ø SA DUCT TO (E).



A2
1/8" = 1'-0"
BUILDING A - MECHANICAL DEMO FLOOR PLAN



A10
1/8" = 1'-0"
BUILDING A - MECHANICAL FLOOR PLAN

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1143

Consultant

Earl Warren Junior High School Modernization
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING A
MECHANICAL FLOOR PLAN

Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: JCS
Drawn By: BS
Checked By: HB
Reviewed By: HB

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Scale: As indicated
Project Number: 2228
Date: 11/29/22

A/M201

2/9/2023 2:53:33 PM

DSA File No.:
15-95

DSA Application No.:
03-122615

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APP: 03-122615 INC:
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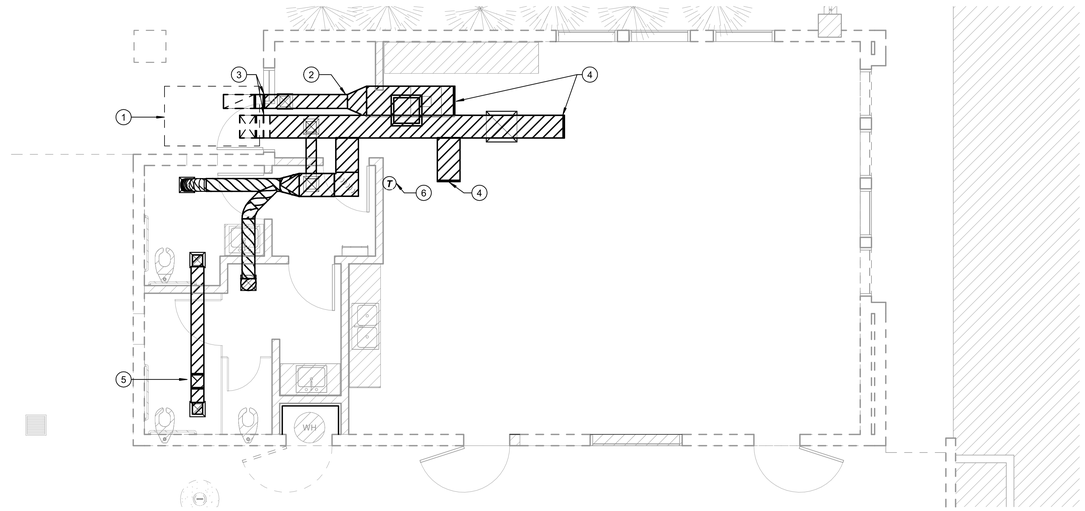
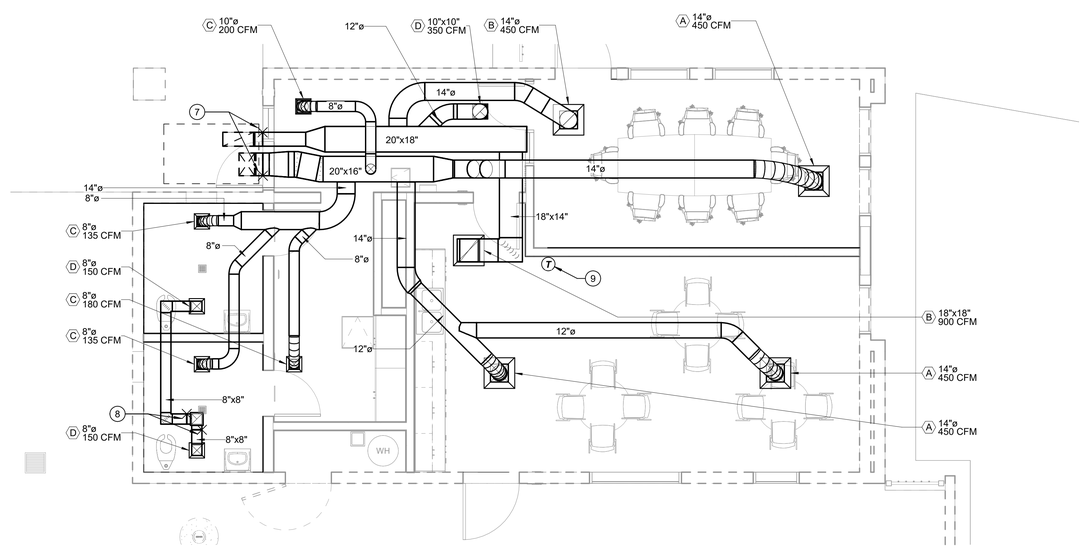
DATE: 07/20/2023

Agency Approval



J7
1/4" = 1'-0"
BUILDING B - MECHANICAL DEMO FLOOR PLAN



A7
1/4" = 1'-0"
BUILDING B - MECHANICAL FLOOR PLAN

KEYNOTES (#)

1 SEE B/M301 FOR ROOF TOP PACKAGE UNIT REMOVAL. (E) DUCT DROPS TO REMAIN.
2 REMOVE (E) DUCT SHOWN HATCHED. TYP.
3 CAP (E) 24"x11" RA AND 18"x12" SA DUCT FOR FUTURE POC.
4 REMOVE (E) SIDE WALL SA DIFFUSER.
5 (E) 10"x10" EA DUCT RISER UP THRU ROOF TO REMAIN. SEE B/M301 FOR EXHAUST FAN TO BE REMOVED.
6 REMOVE (E) WALL THERMOSTAT.
7 POC OF 24"x11" RA AND 18"x12" SA DUCT TO (E).
8 POC OF 8"x8" EA DUCT TO (E) 10"x10" EA RISER.
9 (N) WALL THERMOSTAT. MOUNTED ON WALL +48" ABOVE F.F. TO TOP OF BOX.

GENERAL NOTES

A. SEE DETAIL J14 ON SHEET X/M800 FOR TYPICAL CEILING GRILLE INSTALLATION.
B. SEE DETAIL N11 ON SHEET X/M800 FOR TYPICAL SUSPENDED DUCT SUPPORT.

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1143

REGISTERED PROFESSIONAL ENGINEER
JOHN C. SCHEIDT
No. M 20-24
MECHANICAL
STATE OF CALIFORNIA

Consultant

Earl Warren Junior High School Modernization
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING B
MECHANICAL FLOOR PLAN

Drawing

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LICENSED ARCHITECT
MICHAEL K. FENCO
No. C23724
Exp. 4-30-23
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

		Designed By: JCS	Copyright 2022 Darden Architects
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Project Number:	2228	Checked By: HB	
Date:	11/29/22	Reviewed By: HB	

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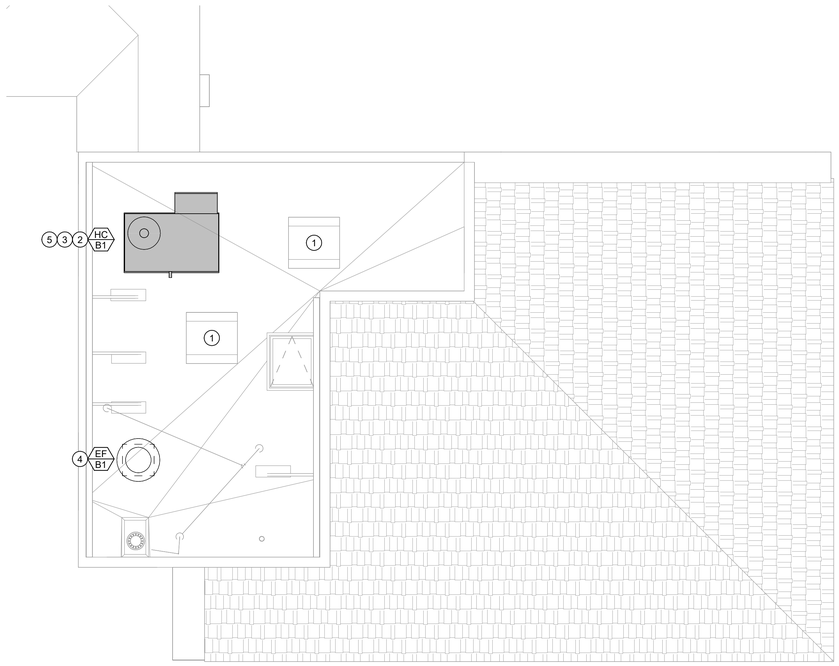

N

A7
1/4" = 1'-0"

BUILDING B - MECHANICAL ROOF PLAN

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DSA File

DSA Application No.:
DSA App

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
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DATE: 07/20/2023

Agency Approval

KEYNOTES (#)

1 (E) GRAVITY VENT TO REMAIN.
2 REMOVE ROOF TOP PACKAGE UNIT, (E) UNIT DISCONNECT, (E) GAS DIRT LEG, AND (E) CONDENSATE TRAP. PRESERVE (E) DUCT THRU ROOF AND (E) CURB. PROTECT (E) ROOFING AND (E) FINISHES TO REMAIN FROM DAMAGE. REPLACE EXISTING THERMOSTAT AND WIRING W/ (N), MOUNTED @ +48" TO TOP OF BOX.
3 PAKAGE UNIT MOUNTED ON (E) CURB PER DETAIL A14 ON SHEET X/M800.
4 ROOF MOUNTED EXHAUST FAN ON (E) CURB PER DEETAIL E14 ON SHEET X/M800.
5 PROVIDE (D) DUCT DETECTOR ON SUPPLY DUCT PER DETAIL A11 ON SHEET X/M800.

General Notes

NET POSITIVE
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engineers
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REGISTERED PROFESSIONAL ENGINEER
JONATHAN C. SCHWARTZ
No. M-31
MECHANICAL
STATE OF CALIFORNIA

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING B
MECHANICAL ROOF PLAN

Drawing

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LICENSED ARCHITECT
MICHAEL K. FERRARO
No. C23724
Exp. 1-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: JCS
Drawn By: Author
Checked By: HB
Reviewed By: HB

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Project Number: 2228
Date: 11/29/22

B/M301

2/14/2023 9:53:17 AM

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DATE: 07/20/2023

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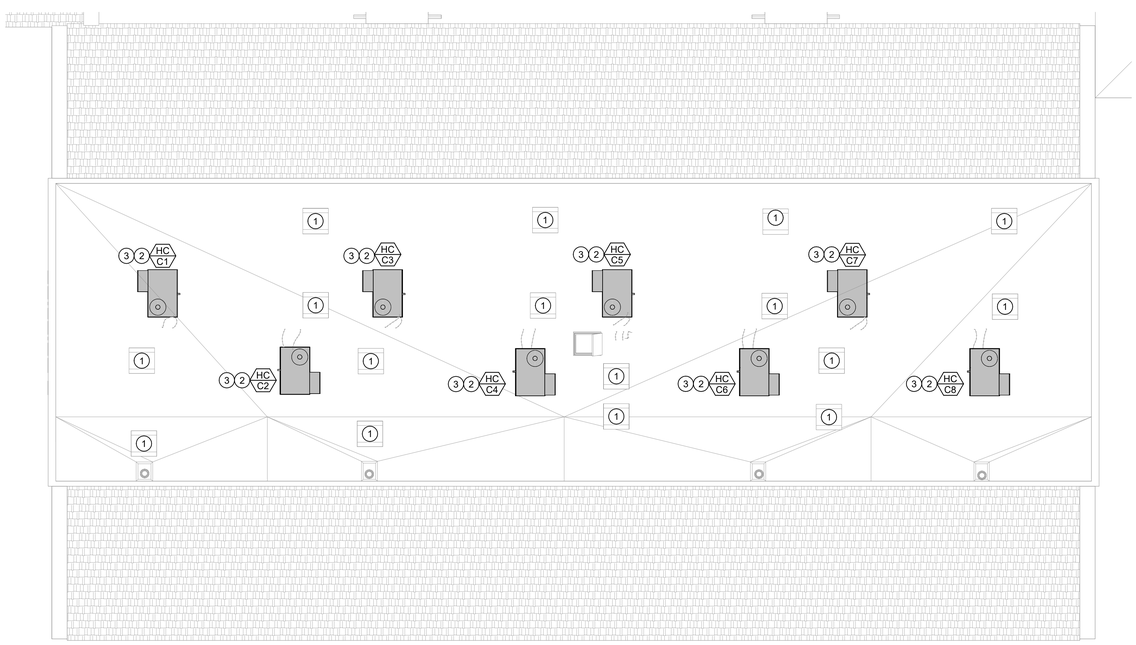

N

KEYNOTES

1 (E) GRAVITY VENT TO REMAIN.

2 REMOVE ROOF TOP PACKAGE UNIT, (E) UNIT DISCONNECT, (E) GAS DIRT LEG, AND (E) CONDENSATE TRAP. PRESERVE (E) DUCT THRU ROOF AND (E) CURB. PROTECT (E) ROOFING AND (E) FINISHES TO REMAIN FROM DAMAGE. REPLACE EXSISTING THERMOSTAT AND WIRING W/ (N), MOUNTED @ +48" TO TOP OF BOX.

3 PACKAGE UNIT MOUNTED ON (E) CURB PER DETAIL A14 ON SHEET X/M800.

General Notes

NET POSITIVE
consulting
engineers
www.NPCeng.com
project no. 1143

REGISTERED PROFESSIONAL ENGINEER
JONATHAN E. SETTLEMIRE
No. M 30-24
MECHANICAL
STATE OF CALIFORNIA

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING C
MECHANICAL ROOF PLAN

Drawing

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LICENSED ARCHITECT
MICHAEL K. FENCO
No. C23724
Exp. 4-30-23
STATE OF CALIFORNIA

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Project Number: 2228
Checked By: HB
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C/M301

A7
1/8" = 1'-0"

BUILDING C - MECHANICAL ROOF PLAN

2/14/2023 9:53:18 AM

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DSA File

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DATE: 07/20/2023

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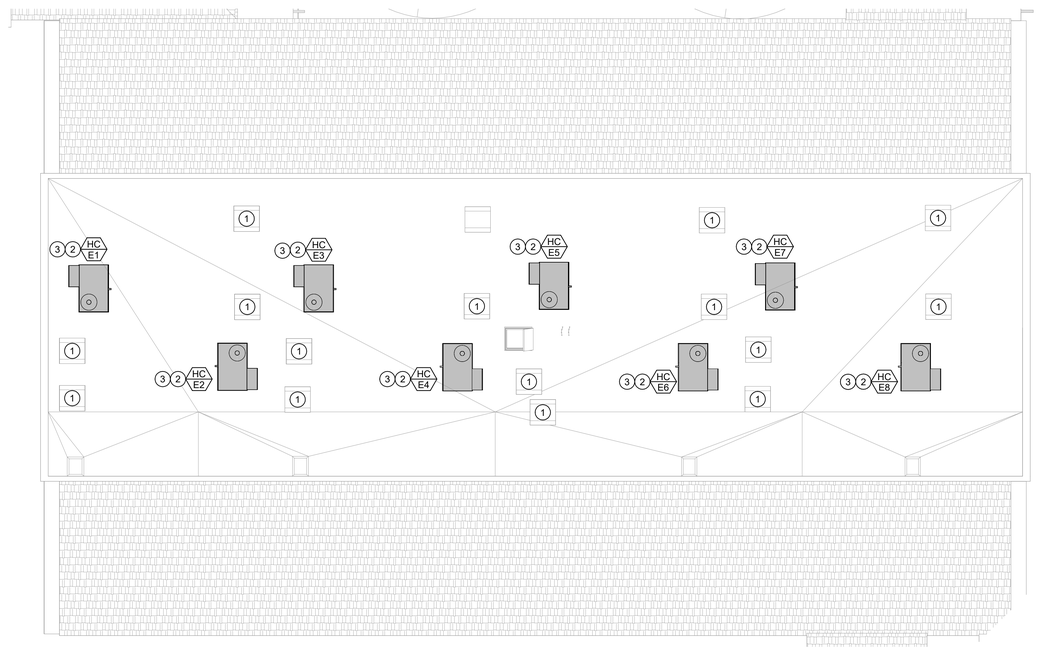
KEYNOTES (#)

1 (E) GRAVITY VENT TO REMAIN
2 REMOVE ROOF TOP PACKAGE UNIT, (E) UNIT DISCONNERCT, (E) GAS DIRT LEG, AND (E) CONDENSATE TRAP. PRESERVE (E) DUCT THRU ROOF AND (E) CURB. PROTECT (E) ROOFING AND (E) FINISHES TO REMAIN FROM DAMAGE. REPLACE EXISTING THERMOSTAT AND WIRING W/ (N), MOUNTED @ +48" TO TOP OF BOX.
3 PACKAGE UNIT MOUNTED ON (E) CURB PER DETAIL A14 ON SHEET X/M800.

General Notes



N

A7
1/8" = 1'-0"

BUILDING E - MECHANICAL ROOF PLAN

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project no. 1143

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING E
MECHANICAL ROOF PLAN

Drawing

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Project Number: 2228	Checked By: HB	
Date: 11/29/22	Reviewed By: HB	

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DATE: 07/20/2023

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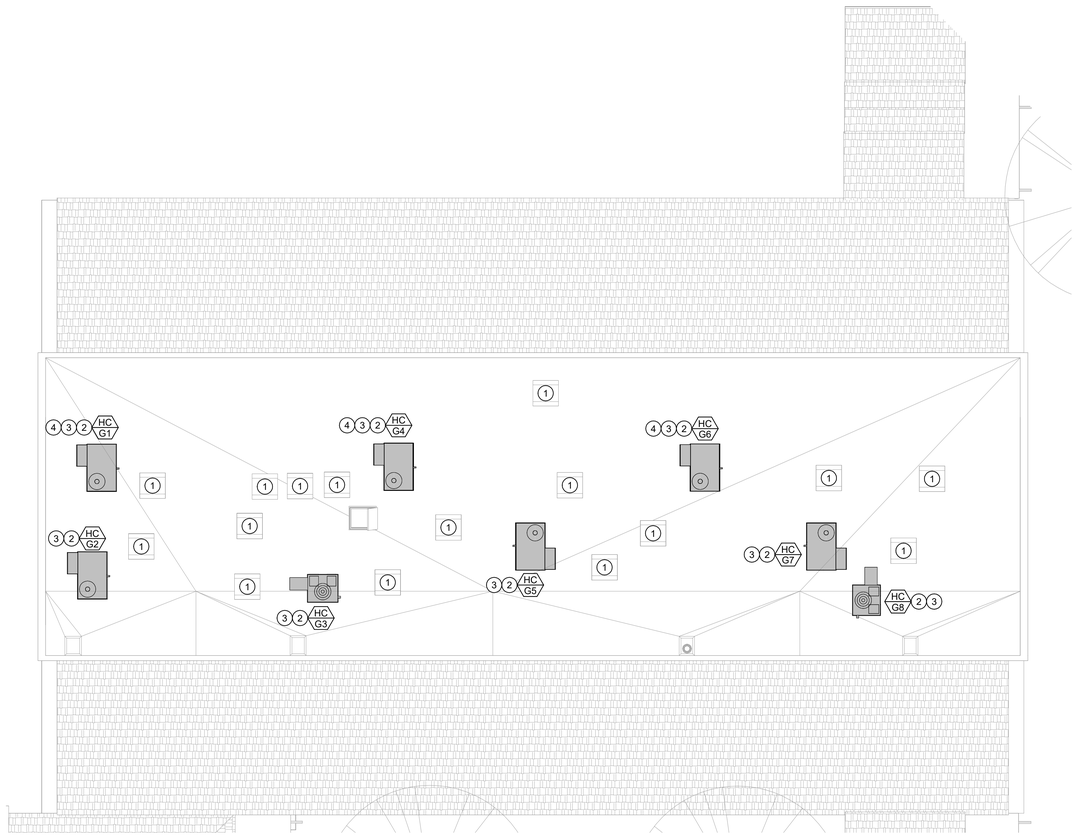
KEYNOTES (#)

1 (E) GRAVITY VENT TO REMAIN

2 REMOVE ROOF TOP PACKAGE UNIT, (E) UNIT DISCONNECT, (E) GAS DIRT LEG, AND (E) CONDENSATE TRAP. PRESERVE (E) DUCT THRU ROOF AND (E) CURB. PROTECT (E) ROOFING AND (E) FINISHES TO REMAIN FROM DAMAGE. REPLACE EXISTING THERMOSTAT AND WIRING W/ (N), MOUNTED @ +48" TO TOP OF BOX.

3 PACKAGE UNIT MOUNTED ON (E) CURB PER DETAIL A14 ON SHEET X/M800.

4 PROVIDE (D) DUCT DETECTOR ON SUPPLY DUCT PER DETAIL A11 ON SHEET X/M800.



A7
1/8" = 1'-0"

BUILDING G - MECHANICAL ROOF PLAN

General Notes

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project no. 1143

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING G
MECHANICAL ROOF PLAN

Drawing

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Architect

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Date: 11/29/22

G/M301

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DATE: 07/20/2023

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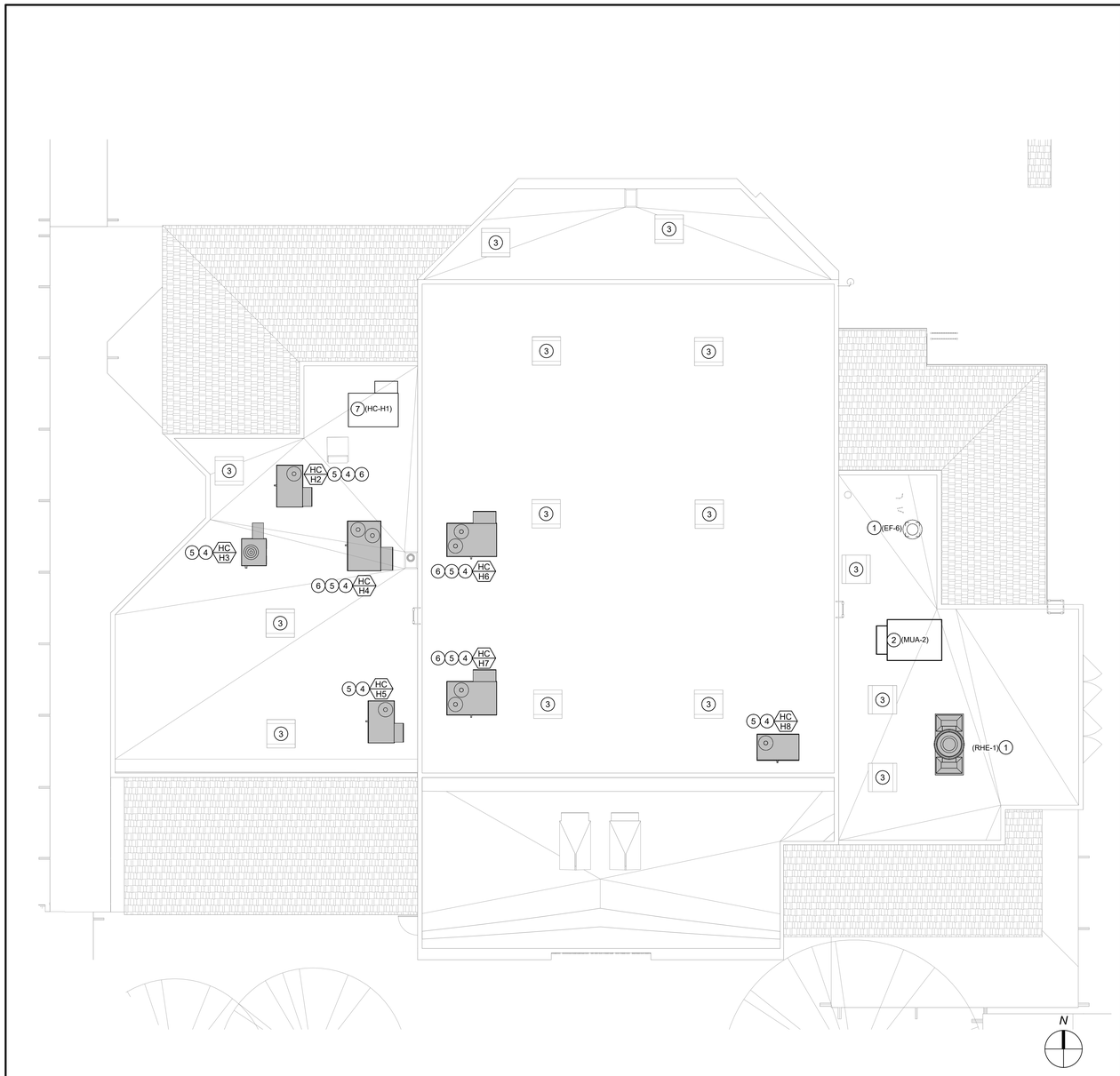

KEYNOTES

1 (E) ROOF TOP EXHAUST FAN TO REMAIN.
2 (E) MAKE-UP AIR UNIT TO REMAIN.
3 (E) GRAVITY VENT TO REMAIN.
4 REMOVE ROOF TOP PACKAGE UNIT, (E) UNIT DISCONNCECT, (E) GAS DIRT LEG, AND (E) CONDENSATE TRAP. PRESERVE (E) DUCT THRU ROOF AND (E) CURB. PROTECT (E) ROOFING AND (E) FINISHES TO REMAIN FROM DAMAGE. REPLACE EXISTING THERMOSTAT AND WIRING W/ (N), MOUNTED @ +48" TO TOP OF BOX.
5 PACKAGE UNIT MOUNTED ON (E) CURB PER DETAIL A14 ON SHEET X/M800.
6 PROVIDE (D) DUCT DETECTOR ON SUPPLY DUCT PER DETAIL A11 ON SHEET X/M800.
7 (E) PACKAGE UNIT TO REMAIN.

General Notes

NET POSITIVE
consulting
engineers
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project no. 1143

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING H
MECHANICAL ROOF PLAN

Drawing

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Scale: As indicated
Project Number: 2228
Date: 11/29/22

H/M301

A7
1/8" = 1'-0"

BUILDING H - MECHANICAL ROOF PLAN

2/16/2023 7:27:55 AM

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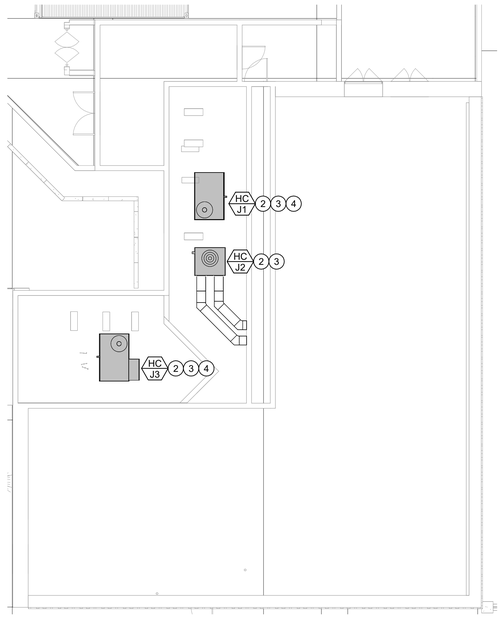
KEYNOTES

1 (E) GRAVITY VENT TO REMAIN.
2 REMOVE ROOF TOP PACKAGE UNIT, (E) UNIT DISCONNECT, (E) GAS DIRT LEG, AND (E) CONDENSATE TRAP. PRESERVE (E) DUCT THRU ROOF AND (E) CURB. PROTECT (E) ROOFING AND (E) FINISHES TO REMAIN FROM DAMAGE. REPLACE EXISTING THERMOSTAT AND WIRING W/ (N), MOUNTED @ +48" TO TOP OF BOX.
3 PACKAGE UNIT MOUNTED ON (E) CURB PER DETAIL A14 ON SHEET X/M800.
4 PROVIDE (D) DUCT DETECTOR ON SUPPLY DUCT PER DETAIL A11 ON SHEET X/M800.

General Notes



N

A7
1/8" = 1'-0"

BUILDING J - MECHANICAL ROOF PLAN

NET POSITIVE
consulting
engineers
www.NPCeng.com
project no. 1143

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING B
MECHANICAL ROOF PLAN

Drawing

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Architect

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Drawn By: Author
Checked By: HB
Reviewed By: HB

Scale: As indicated
Project Number: 2228
Date: 11/29/22

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J/M301

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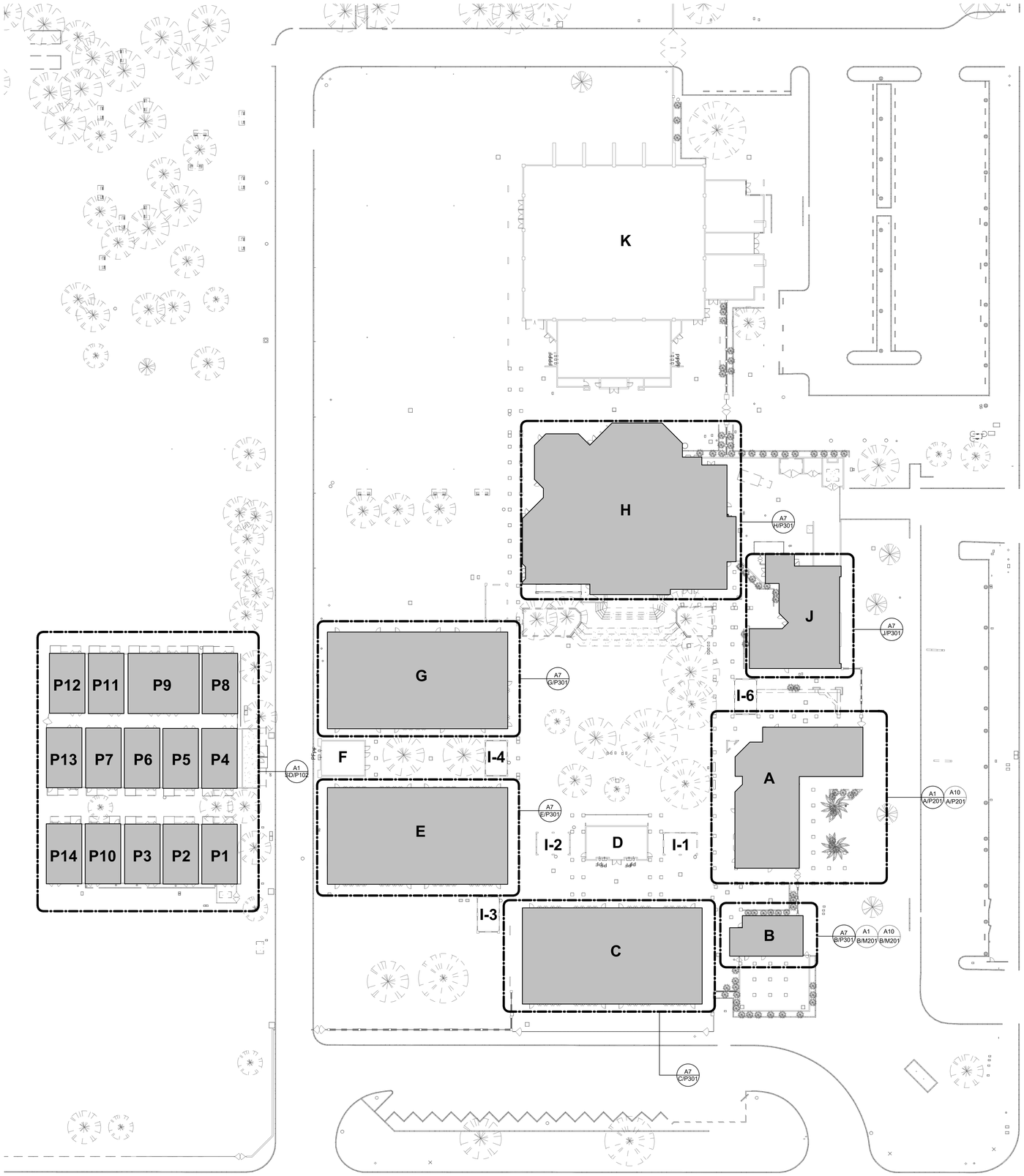

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DSA Application No.:
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DATE: 07/20/2023

Agency Approval

General Notes

NET POSITIVE
consulting
engineers
www.NPCeng.com
project no. 1143

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
PLUMBING SITE PLAN

Drawing

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Architect

No.	Revision/Submission	Date

Revision

Designed By: JCS
Drawn By: BS
Checked By: HB
Reviewed By: HB

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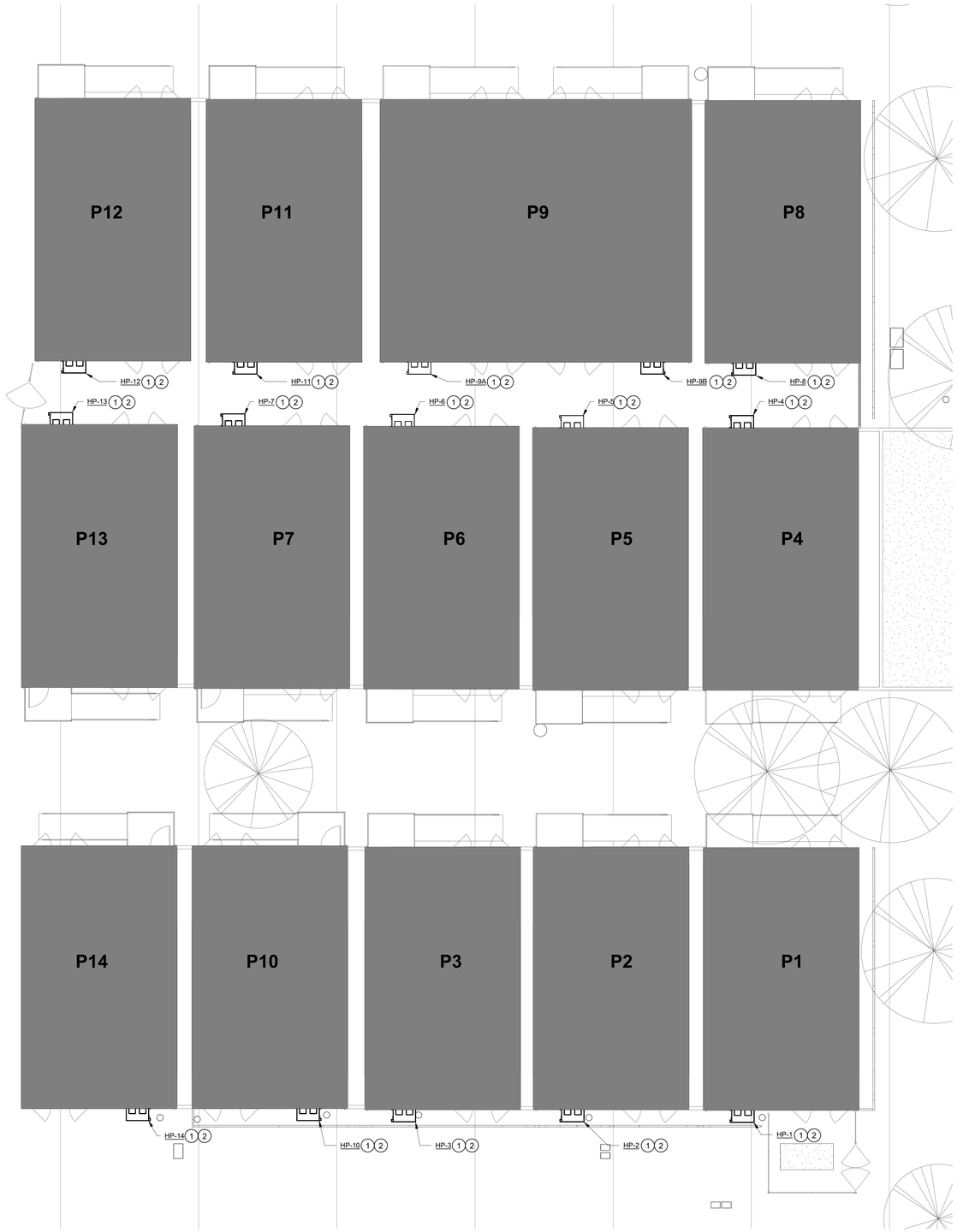
Scale: 1" = 30'-0"
Project Number: 2228
Date: 11/29/22

SD/P101

A1
1" = 30'-0"
PLUMBING SITE PLAN

3/27/2023 4:21:29 PM



N

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DSA File

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KEYNOTES

1 (E) WALL MOUNTED HEAT PUMP TO BE REPLACED BY MECHANICAL. CAP OFF AND PRESERVE CONDENSATE FOR (N).

2 ROUTE CONDENSATE OUT OF UNIT CABINET AND TERMINATE AT (N) DRYWELL PER DETAIL N14 ON SHEET X/P800.

3 PACKAGED UNIT BEING REPLACED BY OTHERS. REFER TO MECHANICAL.

General Notes

NET POSITIVE
consulting
engineers
www.NPCeng.com
project no. 1143

REGISTERED PROFESSIONAL ENGINEER
JOHN C. SCHEUER
No. M 30-21
MECHANICAL
STATE OF CALIFORNIA

Consultant

WARREN JR. HIGH SCHOOL
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

SITE DEVELOPMENT
ENLARGED PLUMBING SITE PLAN

Drawing

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LICENSED ARCHITECT
MICHAEL K. FERRARO
No. C23724
Exp. 1.30.23
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

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Drawn By: BS
Checked By: HB
Reviewed By: HB

Scale: As indicated
Project Number: 2228
Date: 11/29/22

SD/P102

A1
1/8" = 1'-0"
ENLARGED PLUMBING SITE PLAN

2/9/2023 4:14:08 PM

PLUMBING SCHEDULE

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	S OR W	V	CW	HW	DESCRIPTION
WC-1	WATER CLOSET ADA	4"	2"	1-1/4"	_	KOHLER " WELCOME ULTRA" MODEL K-96054-SS, FLOOR MOUNT WATER CLOSET WITH REAR SPUD, ELONGATED BOWL, HIGH-EFFICIENCY, ANTI-MICROBIAL GLASE,SLOAN CX-815S-1.28-SF-OR CONCEALED SENSOR-OPERATED, BATTERY-POWERED, 1.28 GPF AUTOMATIC FLUSH VALVE WITH ELECTRICAL OVERRIDE. FRONT ACCESS PLATE AND INTEGRATED CONTROL STOP. CHURCH 295SSCT SOLID PLASTIC OPEN FRONT SEAT WITH STAINLESS STEEL HINGE POSTS, SELF-SUSTAINING HINGES, AND STA-TITE FASTENING SYSTEM.
L-1	LAVATORY ADA	2"	2"	3/4"	3/4"	KOHLER "BRENHAM" MODEL K-1997-SS1N-0, WALL-HUNG, 21"x19" VITREOUS CHINA WITH ANTIMICROBIAL GLAZE, SINGLE CENTER FAUCET HOLE, AND SLOAN SF-2400-4-TEE-CP-0.5GPM SENSOR-OPERATED, BATTERY-POWERED, AUTOMATIC METERING FAUCET WITH 0.5GPM LAMINAR FLOW OUTLET. SET CYCLE TIME TO 10 SECONDS MIN. / 30 SECONDS MAX. MCGUIRE 155WC OFFSET GRID DRAIN. JAY R. SMITH 700-Z SUPPORT CARRIER WITH CONCEALED ARMS. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHTS
FD-1	FLOOR DRAIN	2"	1-1/2"	TP	_	JAY R. SMITH 2005Y-B05-P050 COATED CAST IRON WITH 5" SQUARE NICKEL BRONZE HEEL-PROOF GRATE, DOUBLE DRAINAGE FLANGE, NO HUB OUTLET AND TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	2"	1-1/2"	TP	_	JAY R. SMITH 3200Y-14-C, 16"x16"x12" DEEP COATED CAST IRON WITH NICKEL BRONZE RIM WITH 7" SQUARE OPENING IN CENTER, DOME BOTTOM STRAINER. DOUBLE DRAINAGE FLANGE, NO HUB OUTLET AND TRAP PRIMER CONNECTION FITTING.
TP-1	TRAP PRIMER	_	_	3/4"	_	PRECISION PLUMING PRODUCTS PR-500 "PRIME-RITE" PRESSURE DROP-ACTIVATED FOR UP TO (2) FLOOR DRAINS. PROVIDE BALL SHUT-OFF VALVE AT INLET AND 14"x14" STAINLESS STEEL ACCESS DOOR WITH CYLINDER LOCK.
S-1	HAND WASH SINK ADA	2"	2"	3/4"	3/4"	ADVANCE TABCO 7-PS-75 WALL-HUNG, 14"x16" TYPE 304 STAINLESS STEEL WITH 4" CENTER FAUCET HOLES. SLOAN "OPTIMA" MODEL ETF-770-4-CP-1.5GPM-LAM-IR SENSOR-OPERATED, BATTERY-POWERED, AUTOMATIC METERING FAUCET WITH 1.5 GPM LAMINAR FLOW OUTLET , AND PLUG ADAPTOR FOR POWER SUPPLY. SET CYCLE TIME TO 10 SECONDS MIN. / 30 SECONDS MAX. PROVIDE WILKINS ZW3870XLT-4P POINT OF USE THERMOSTATIC MIXING VALVE BELOW SINK. PROVIDE A STEEL SUPPORT PLATE FOR MOUNTING FIXTURE. SEE ARCHITECTURAL DRAWINGS FOR ACCESSIBLE MOUNTING HEIGHT.
WH-1	WATER HEATER	_	_	3/4"	3/4"	A.O. SMITH GPNH-50 PROLINE XE HIGH EFFICIENCY ULTRA LOW-NOx POWER VENT 50 GALLON COMMERCIAL GAS WATER HEATER, 42,000 BTUH INPUT, 94% EFFICIENCY, GLASS-LINED, INTELLI-VENT GAS CONTROL, 42 GPH AT 90F, 7-DAY PROGRAMMABLE AQUASTAT. ELECTRICAL: 120V, 1PH, 5 AMPS DIMENSIONS: 22" Ø, 67" TALL. OPERATING WEIGHT: 575 LBS.
HB-1	HOSE BIBB	_	_	3/4"	_	ACORN RECESSED HOSE BOX MODEL 8151 WITH WALL FLANGE. TYPE 304 STAINLESS STEEL BOX AND FLANGES WITH SATIN FINISH EXTERIOR, VANDAL-RESISTANT LOCKSHELD, REMOVABLE LOOSE KEY WHEEL HANDLE, SCREWDRIVER OPERATED STOP, AND CYLINDER LOCK ON DOOR.
CP-1	CIRCULATING PUMP	_	_	_	3/4"	GRUNDFOC MODEL UPS15-55SFC STAINLESS STEEL DOMESTIC HOT WATER IN-LINE CIRCULATING PUMP, WITH FLANGED CONNECTIONS, 3-SPEED MOTOR, INTEGRAL CHECK VALVE, 5 GPM AT 13 FT. TDH., 1/12 HP, 120V/1PH. (CONTROL THRU "HONEYWELL" AQUASTAT AND DIGITAL 365 DAY TIME CLOCK OR EMS CONTACTS.)
SA-1	SHOC ABSORBER	_	_	3/4"	_	SIOX CHIEF 653B-CS HYDRA-RESTER SEAMLESS COPPER CHAMBER APPROVED FOR CONCEALED INSTALLATION. PDI SYMBOL B. INSTALL IN UPWARD POSITION.
TET-1	THERMAL EXPANSION TANK	_	_	_	1/2"	WILKINS XT-8, GALLON CAPACITY ASME RATED EXPANSION TANK WITH IN-LINE CONNECTIONS, LEAD FREE, AND FDA APPROVED BLADDER FOR POTABLE WATER USE.

ANCHORAGE & BRACING NOTES

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISCPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 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 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

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. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE 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 A 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 ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED 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.

MECHANICA PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MD ☐ MP ☐ PP ☐ E ☐ - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MD ☐ MP ☐ PP ☒ E ☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) # 0043-13.

PLUMBING LEGEND

SYMBOL	ITEM	ABBR.
	ABOVE	ABV
	ABOVE CEILING	ABV CLG
	ABOVE FINISHED FLOOR	AFF
	ALTERNATE	ALT
&	AND	
	ARCHITECT / ARCHITECTURAL	ARCH
@	AT	
	BELOW FLOOR	BEL FLR
	BELOW GRADE	BEL GR
	CALIFORNIA MECHANICAL CODE	CMC
	CALIFORNIA PLUMBING CODE	CPC
	CEILING	CLG
℄	CENTER LINE	
≀	CONTINUATION	CONT
	CUBIC FEET PER HOUR	CFH
∅	DIAMETER	DIA
	DOWN	DN
	DRAWING	DWG
	ELBOW	ELL
	ELECTRICAL	ELEC
	EXISTING	(E)
	FEET	FT
	FLOOR	FLR
	FLOW LINE	FL
	GALLON	GAL
	GALLONS PER HOUR	GPH
	GALLONS PER MINUTE	GPM
	GAUGE	GA
	INSIDE DIAMETER	ID
	INVERT ELEVATION	I.E.
	MAXIMUM	MAX
	MINIMUM	MIN
	NEW	(N)
	NOT IN CONTRACT	NIC
	NOT TO SCALE	NTS
#	NUMBER	NO.
	OUTSIDE DIAMETER	OD
	POUNDS	LBS
	POUNDS PER SQUARE INCH	PSI
	POUNDS PER SQUARE INCH ABSOLUTE	PSIA
	POUNDS PER SQUARE INCH GAUGE	PSIG
	POLYVINYL CHLORIDE	PVC
	ROOM	RM
	SPECIFICATION	SPEC
	SQUARE FEET	SQ FT
	STAINLESS STEEL	SS
	TEMPERATURE	TEMP
	THROUGH	THRU
	TYPICAL	(TYP)
	WATER COLUMN	WC
	WITH	W/
A	COMPRESSED AIR	A
AV	ACID VENT	AV
AW	ACID WASTE	AW
	ACID VENT RISER	AVR
	ACID VENT THRU ROOF	AVTR
CD	CONDENSATE DRAIN	CD
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
G	LOW PRESSURE NATURAL GAS	G
HPG	HIGH PRESSURE GAS	HPG
ICW	INDUSTRIAL COLD WATER	ICW
LPG	LIQUIFIED PETROLEUM GAS	LPG
F	FIRE PROTECTION LINE	
RWL	RAIN WATER LEADER	RWL
OD	OVERFLOW DRAIN	OD
SD	STORM DRAIN	SD
	SOIL or WASTE	S or W
MA	MEDICAL AIR	MA
O_2	OXYGEN	O_2
VAC	VACUUM	VAC
	VENT	V
	VENT RISER	VR
	VENT THRU ROOF	VTR
	CLEANOUT TO GRADE	COTG
	DEMOLITION	DEMO
	EXISTING PIPING	
	FLOOR CLEANOUT	FCO
	HOSE BIBB	
	PIPING TURN UP	
	PIPING TURN DOWN	
	PIPING CAP	
	POINT OF CONNECTION TO EXISTING	POC
	ANGLE VALVE	
	BALANCE VALVE	
	BALL VALVE	
	CHECK VALVE	

SYMBOL	ITEM	ABBR.
	CONCENTRIC REDUCER	
	TWO-WAY CONTROL VALVE	
	PLUG VALVE	
	PRESSURE REDUCING VALVE	
	SHUT-OFF VALVE IN BOX	SOV
	SHUT-OFF VALVE	SOV
	THERMOSTATIC MIXING VALVE	
	TEMPERATURE / PRESSURE RELIEF VALVE	PRV
	UNION	
	WALL CLEANOUT	WCO
	"Y" TYPE STRAINER	
P	PRESSURE GAUGE	
T	TEMPERATURE GAUGE	
1	KEYNOTE	
WC-1	NEW FIXTURE TAG EXAMPLE: WATER CLOSET - TYPE 1 (REFER TO PLUMBING SCHEDULE)	
2 / P800	DETAIL REFERENCE EXAMPLE: DETAIL 2, SHEET P800	
3 / P400	SECTION REFERENCE EXAMPLE: SECTION 3, SHEET P400	

GENERAL NOTES

1. COORDINATION OF WORK: LAYOUT OF MATERIALS, EQUIPMENT AND SYSTEMS IS GENERALLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED. SOME WORK MAY BE SHOWN OFFSET FOR CLARITY.
2. THE ACTUAL LOCATION OF ALL MATERIALS, PIPING, DUCTWORK, FIXTURES, EQUIPMENT, SUPPORTS, ETC. SHALL BE CAREFULLY PLANNED, PRIOR TO INSTALLATION OF ANY WORK TO AVOID ALL INTERFERENCES WITH EACH OTHER, OR WITH STRUCTURAL, ELECTRICAL, ARCHITECTURAL OR OTHER ELEMENTS.
3. VERIFY THE PROPER VOLTAGE AND PHASE OF ALL EQUIPMENT WITH THE ELECTRICAL PLANS. ALL CONFLICTS SHALL BE CALLED TO THE ATTEN TION OF THE ARCHITECT AND THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK OR THE ORDERING OF ANY EQUIPMENT.
4. ALL DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR THE OWNER REPRESENTATIVE.
5. MINIMUM SLOPE FOR SEWER IS 1/4" PER FT, UNLESS OTHERWISE NOTED.
6. ALL ROOF PENETRATIONS SHALL BE COMPATIBLE WITH ROOF SYSTEM WITH AS FEW PENETRATIONS AS POSSIBLE.
7. MINIMUM DOMESTIC WATER PIPE SIZE TO BE 3/4" UNLESS OTHERWISE NOTED. USE A REDUCING ELL AT FIXTURE, IF NECESSARY.
8. ALL PLUMBING FIXTURES, VALVES, FAUCETS, FIXTURE STOPS, ETC. WHICH PROVIDE WATER FOR HUMAN CONSUMPTION MUST MEET THE "LEAD FREE"
REQUIREMENT FOR THE STATE OF CALIFORNIA.
9. MAXIMUM ALLOWABLE DISTANCE FOR HOT WATER LATERALS TO FIXTURES OFF OF THE CIRCULATING MAIN SHALL BE 10'-0" FOR HAND WASH SINKS AND LAVS, AND 15'-0" FOR OTHER SINKS.

DSA File No.:
15-95

DSA Application No.:
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APP: 03-122615 INC:
REVIEWED FOR
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DATE: 07/20/2023

Agency Approval

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1143

Consultant

Earl Warren Junior High School Modernization
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TYPICAL INFORMATION
PLUMBING SCHEDULES, LEGENDS, AND NOTES

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
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Architect

No.	Revision/Submission	Date

Revision

Designed By: JCS
Drawn By: BS
Checked By: HB
Reviewed By: HB

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Scale: 12" = 1'-0"
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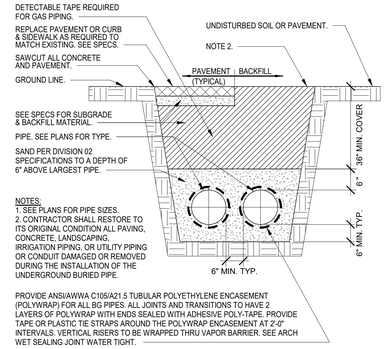
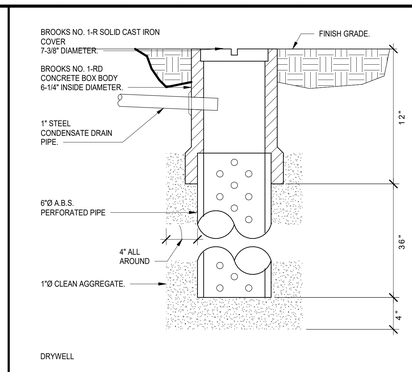


N11 — TYPICAL UTILITY TRENCH

NTS



N14 — DRYWELL

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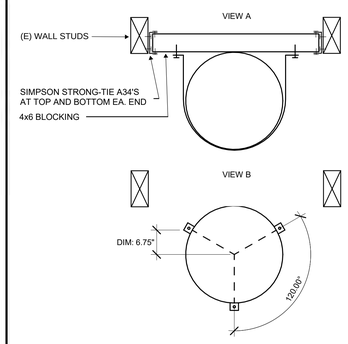
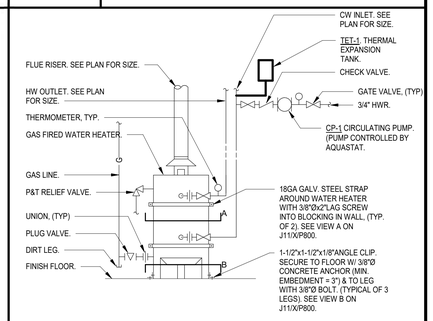


J11 — WATER HEATER ANCHORAGE

NTS



J14 — WATER HEATER INSTALLATION

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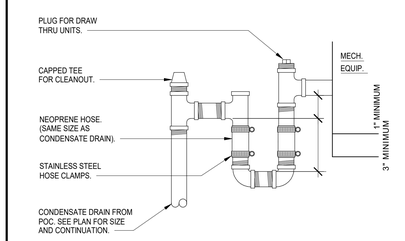
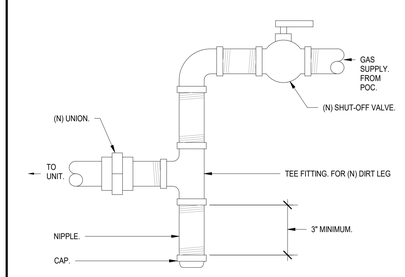


CONDENSATE DRAIN CONNECTION

E14 — CONDENSATE DRAIN CONNECTION

1" = 1'-0"



GAS DIRT LEG

A14 — GAS DIRT LEG

1" = 1'-0"

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General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
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Consultant

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Panama-Buena Vista Union School District
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Project

TYPICAL INFORMATION
PLUMBING DETAILS

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Architect

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Drawn By: Author
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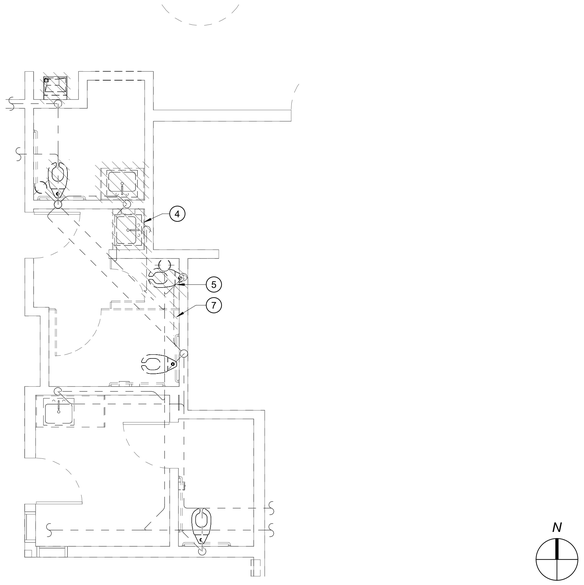
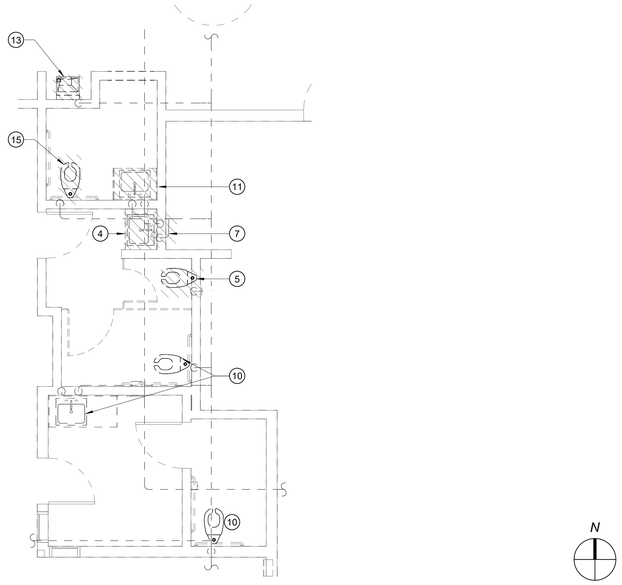
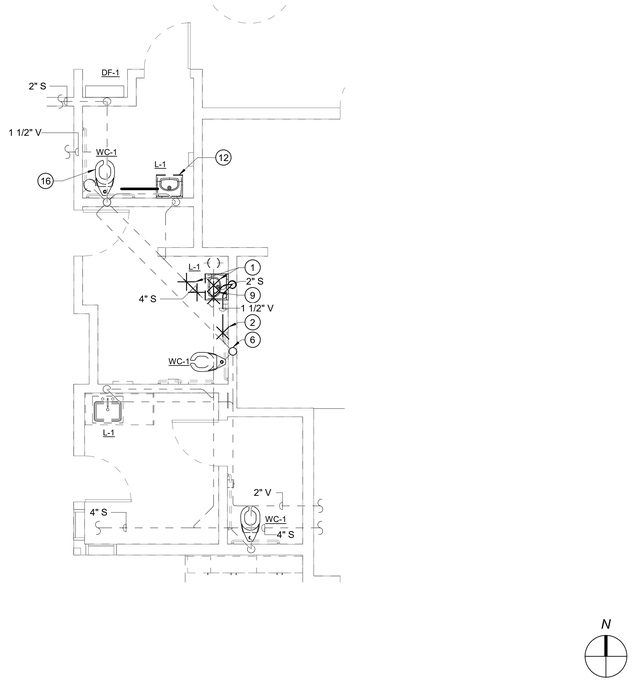


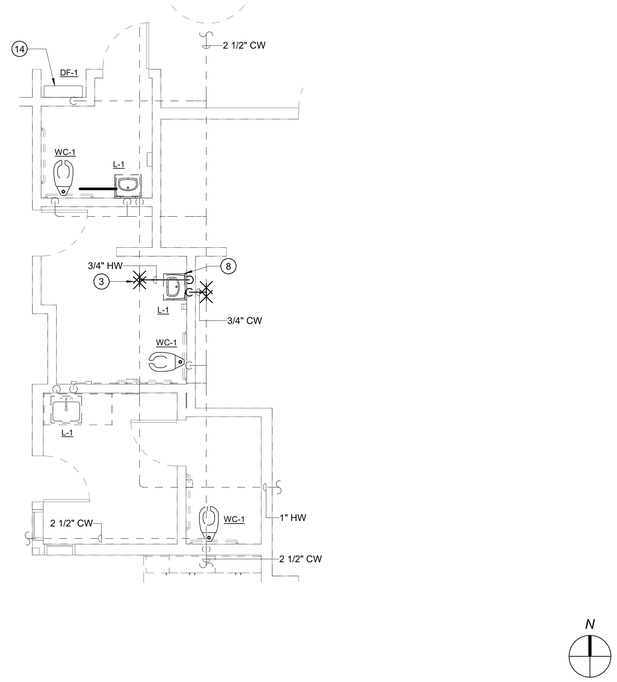
J1 — BUILDING A - PLUMBING DEMO FLOOR PLAN - S, V
1/4" = 1'-0"



J10 — BUILDING A - PLUMBING DEMO FLOOR PLAN - DOMESTIC WATER
1/4" = 1'-0"



A1 — BUILDING A - PLUMBING FLOOR PLAN - S, V
1/4" = 1'-0"



A10 — BUILDING A - PLUMBING FLOOR PLAN - DOMESTIC WATER
1/4" = 1'-0"

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KEYNOTES

1 (N) 4"S POC TO (E) 4"S. SAW CUT AS REQUIRED TO REPLACE PIPE FOR (N) POC.
2 (N) 1-1/2" V POC TO (E) 2" V.
3 (N) 3/4" CW POC TO (E) 2" CW.
4 REMOVE & SALVAGE (E) LAVATORY. CAP & ABANDON (E) S, V, CW, & HW PIPING BELOW FLOOR AND/OR WITHIN WALL. REFER TO NEW WORK PLAN FOR POC FOR REINSTALATION LOCATION OF LAVATORY.
5 REMOVE (E) WATER CLOSET. CAP & ABANDON (E) S, V, & CW PIPING BELOW FLOOR AND/OR WITHIN WALL. REFER TO NEW WORK PLAN FOR POC FOR REPLACEMENT FIXUTRE.
6 (E) 2-1/2" VTR.
7 DEMO PIPE SHOWN HATCHED. TYP.
8 3/4" CW & HW TO LAVATORY.
9 2"S TO LAVATORY.
10 EXISTING FIXTURE TO REMAIN.
11 REMOVE (E) LAVATORY. CAP (E) S, V, CW, & HW PIPING BELOW FLOOR AND/OR WITHIN WALL FOR RE-USE.
12 (N) LAVATORY CONNECTED TO (E) S, V, CW, & HW PIPING.
13 REMOVE (E) DRINKING FOUNTAIN, CAP (E) S, V, & CW PIPING BELOW FLOOR AND/OR WITHIN WALL FOR RE-USE.
14 (N) WATER BOTTLE FILLER CONNECTED TO (E) S, V, & CW.
15 REMOVE & SALVAGE (E) WATER CLOSET. CAP (E) S, V, & CW PIPING BELOW FLOOR AND/OR WITHIN WALL FOR RE-USE.
16 RELOCATE (E) WATER CLOSET WITHIN 17" TO 18" WITHIN WALL TO MEET CODE

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1143

REGISTERED PROFESSIONAL ENGINEER
JAMES C. SCHAFER
Exp. 06-30-24
MECHANICAL
STATE OF CALIFORNIA

Consultant

Earl Warren Junior High School Modernization
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING A
PLUMBING FLOOR PLAN

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LICENSED ARCHITECT
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No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

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Reviewed By: HB

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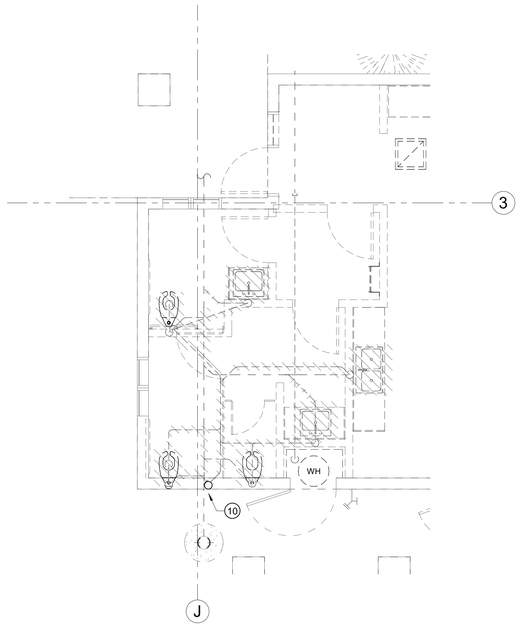
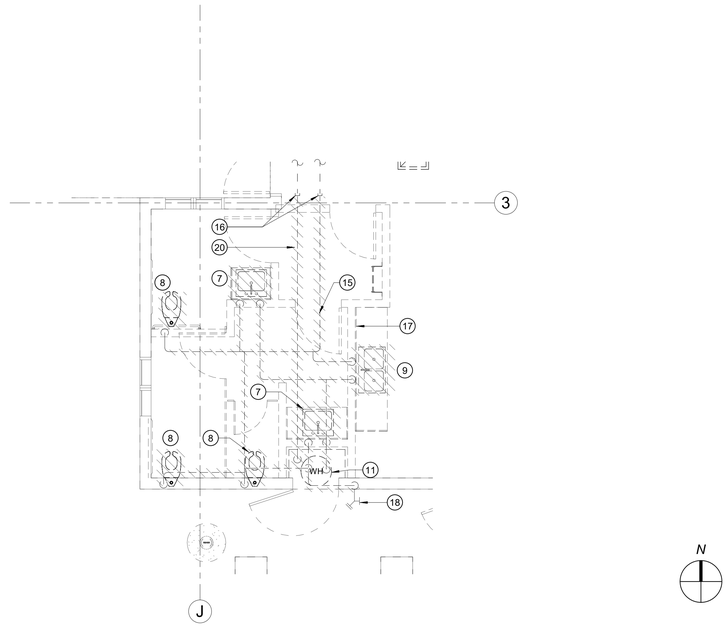
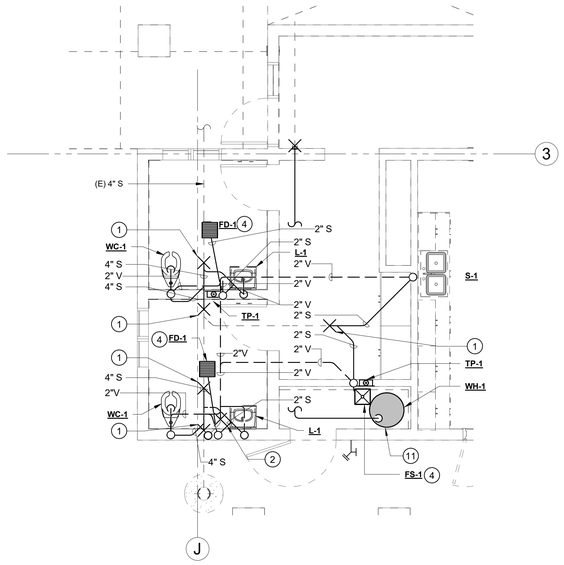


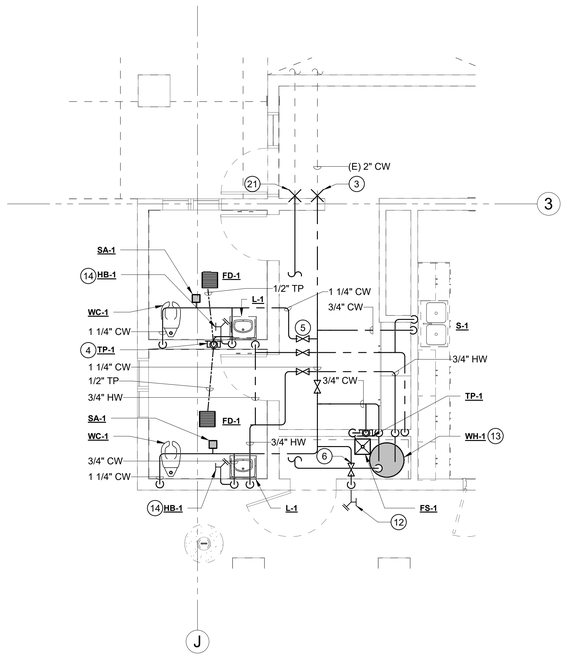
J1 — BUILDING B - PLUMBING DEMO FLOOR PLAN - S V
1/4" = 1'-0"



J9 — BUILDING B - PLUMBING DEMO FLOOR PLAN - DOMESTIC WATER AND GAS
1/4" = 1'-0"



A1 — BUILDING B - PLUMBING FLOOR PLAN - S V
1/4" = 1'-0"



A9 — BUILDING B - PLUMBING FLOOR PLAN - DOMESTIC WATER AND GAS
1/4" = 1'-0"

KEYNOTES

1. (N) 4" S POC TO (E) 4" S. SAWCUT AS REQUIRED TO REPLACE PIPE FOR (N) POC.
2. (N) 2-1/2" V POC TO (E) 2-1/2" V.
3. (N) 2" CW POC TO (E) 2" CW.
4. (N) FLOOR SINK/FLOOR DRAIN. PROVIDE (N) 2" S, 1-1/2" V, & 1/2" CW FROM (N) TRAP PRIMER TO (N) FIXTURE.
5. CW & HW SOV'S ABV CEILING SPACE, CENTRALIZED TO BE LOCATED ABOVE ONE ACCESS PANEL (TYP). SEE ARCHITECTURAL.
6. 3/4" CW SOV EXPOSED IN MECHANICAL ROOM.
7. REMOVE (E) LAVATORY. CAP & ABANDON (E) S, V, CW, & HW PIPING BELOW FLOOR AND/OR WITHING WALL. REFER NEW WORK PLAN FOR POC FOR REPLACEMENT FIXTURE.
8. REMOVE (E) WATER CLOSET. CAP & ABANDON (E) S, V, & CW PIPING BELOW FLOOR AND/OR WITHIN WALL. REFER NEW WORK PLAN FOR POC FOR REPLACEMENT FIXTURE.
9. REMOVE (E) SINK. CAP & ABANDON (E) S, V, CW, & HW PIPING BELOW FLOOR AND/OR WITHING WALL. REFER NEW WORK PLAN FOR POC FOR REPLACEMENT FIXTURE.
10. (E) 2-1/2" VTR.
11. REMOVE (E) 50 GAL WATER HEATER, PIPING, AND CIRC PUMP.
12. RECONNECT 3/4" CW TO EXISTING HOSE BIBB TO REMAIN.
13. NEW GROUND MOUNTED WATER HEATER ROUTED TO (N) FLOOR SINK. REFER TO DETAIL J14 ON SHEET X/P800.
14. 3/4" CW TO HOSE BIBB. TYP.
15. DEMO PIPE SHOWN HATCHED. TYP.
16. CAP CW & G TO REMAIN.
17. (E) WALLS SHOWN DASHED ARE TO BE REMOVED. REMOVE ALL PIPING WITHIN WALL. TYP.
18. (E) EXTERIOR HOSE BIBB TO REMAIN.
19. 3/4" HWR DROP DN TO WATER HEATER.
20. REMOVE (E) 3/4"G SHOWN HATACHED.
21. POC OF 3/4"G TO (E) 3/4"G. 3/4"G ROUTED TO (N) WATER HEATER.

General Notes

NET POSITIVE consulting engineers
www.NPCeng.com
project no. 1143

Consultant

Earl Warren Junior High School Modernization
Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING B
PLUMBING FLOOR PLAN

Drawing

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Architect

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Revision

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Drawn By: BS
Checked By: HB
Reviewed By: HB

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Scale: As indicated
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B/P201

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DATE: 07/20/2023

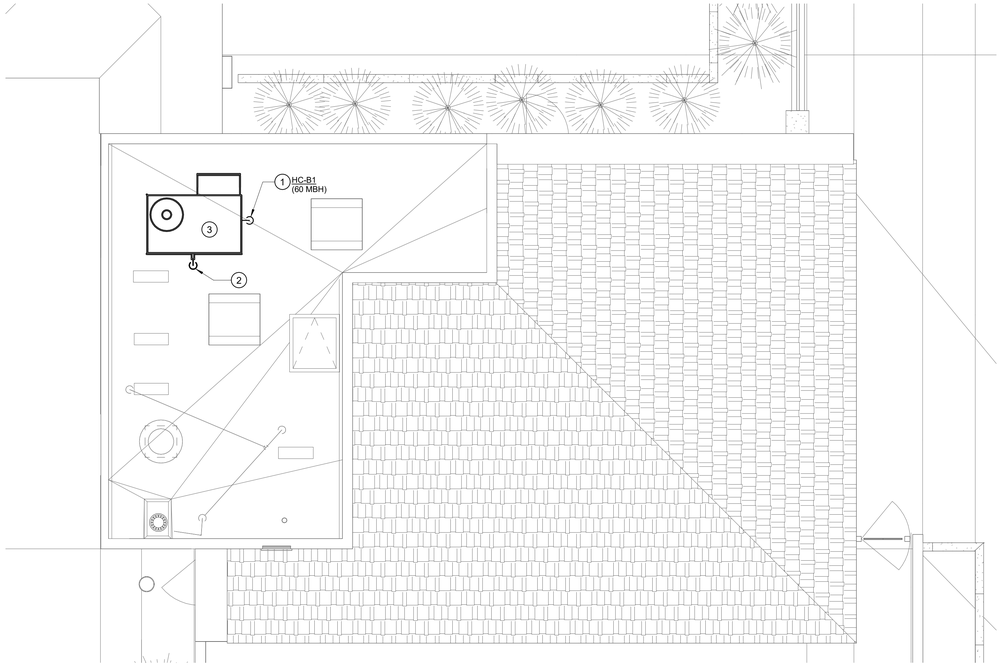
Agency Approval

KEYNOTES (#)

1 CONNECT (N) GAS TO UNIT WITH SOV & DIRT LEG PER DETAIL A14 ON X/P800. RE-CONNECT TO (E) GAS PIPING ABOVE ROOF.
2 CONDENSATE CONNECTION WITH TRAP PER DETAIL E14 ON X/P800.
3 PACKAGED UNIT BEING REPLACED BY OTHERS. REFER TO MECHANICAL.

GENERAL NOTES

A. PLUMBING CONTRACTOR TO SAFE OFF ALL GAS AND CONDENSATE LINE ON THE ROOF FOR CONNECTION TO NEW AC UNITS.



N

A7
1/4" = 1'-0"

BULDING B - PLUMBING ROOF PLAN

General Notes

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REGISTERED PROFESSIONAL ENGINEER
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No. M 24-31
MECHANICAL
STATE OF CALIFORNIA

Consultant

WARREN JR. HIGH SCHOOL
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Project

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LICENSED ARCHITECT
MICHAEL K. FENOCCHIO
No. C23724
Exp. 1-30-25
STATE OF CALIFORNIA

Architect

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B/P301

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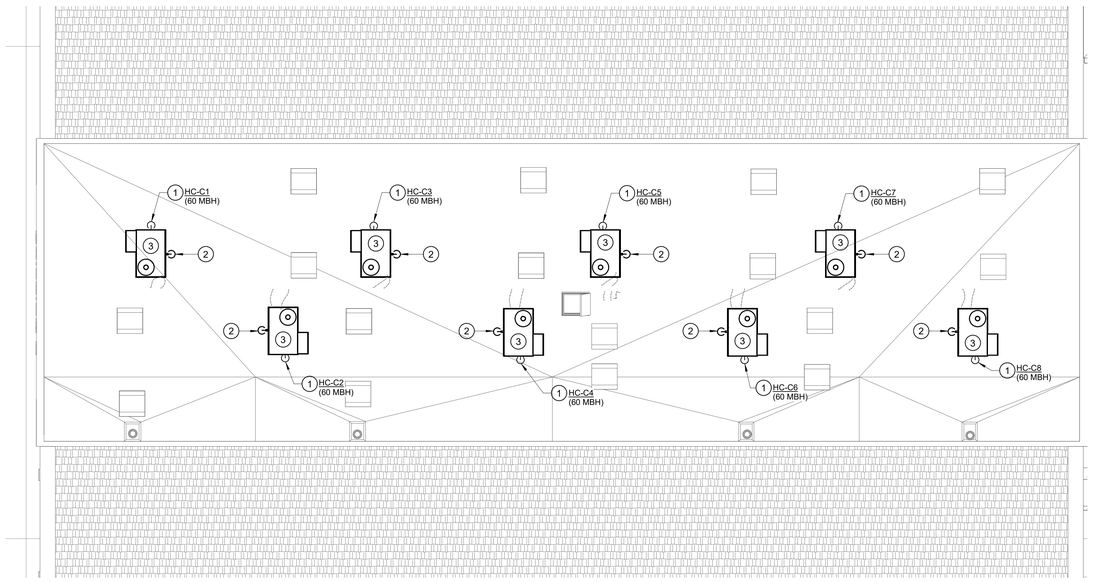

N

General Notes

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Consultant

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Bakersfield, CA 93313

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C/P301

A7
1/8" = 1'-0"

BUILDING C -PLUMBING ROOF PLAN

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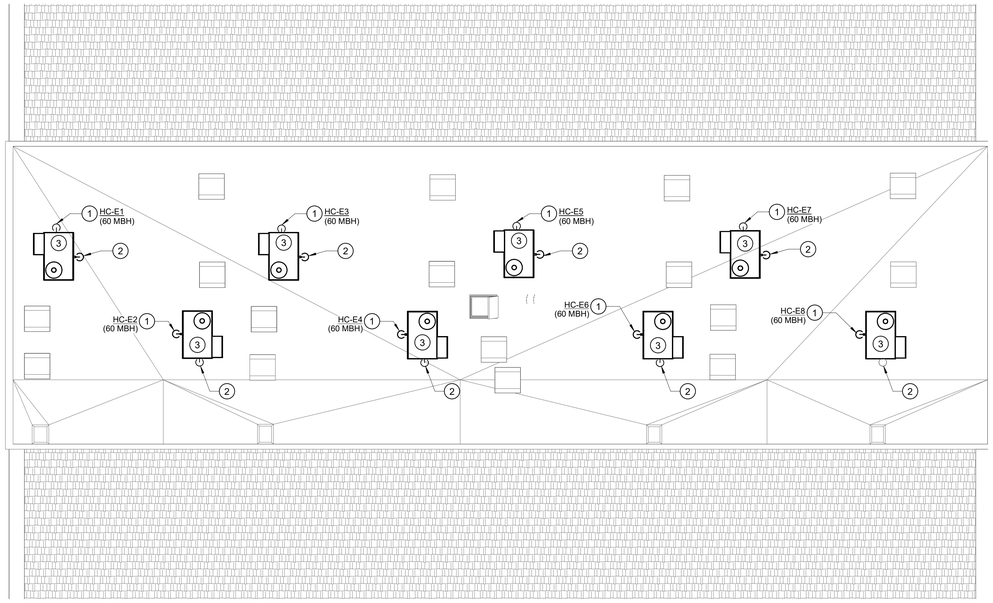

N

A7
1/8" = 1'-0"
BUILDING E - PLUMBING ROOF PLAN

General Notes

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project no. 1143

Consultant

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Bakersfield, CA 93313

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E/P301

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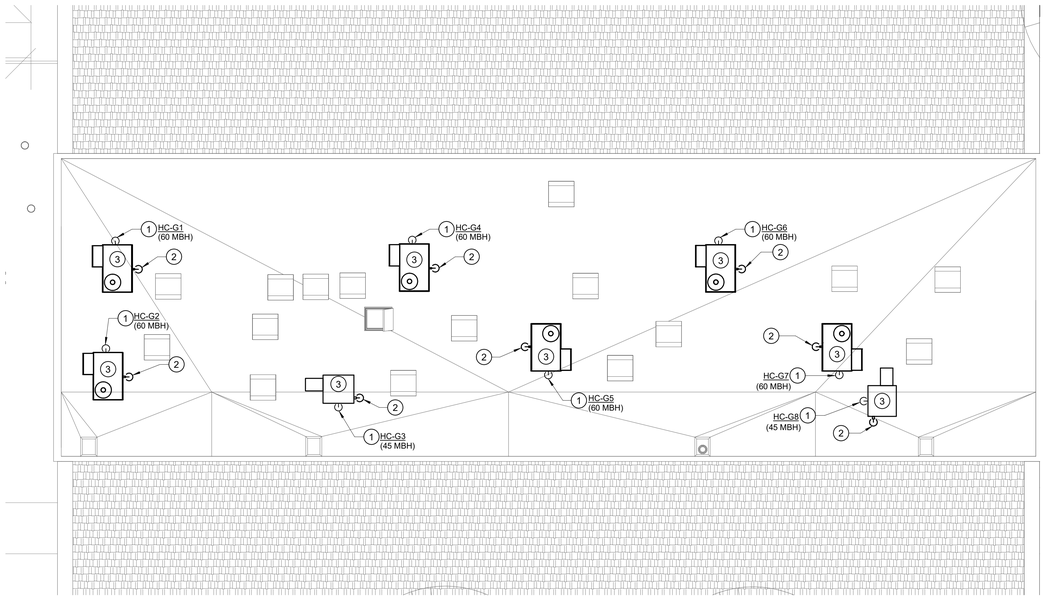

N

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G/P301

A7
1/8" = 1'-0"

BUILDING G - PLUMBING ROOF PLAN

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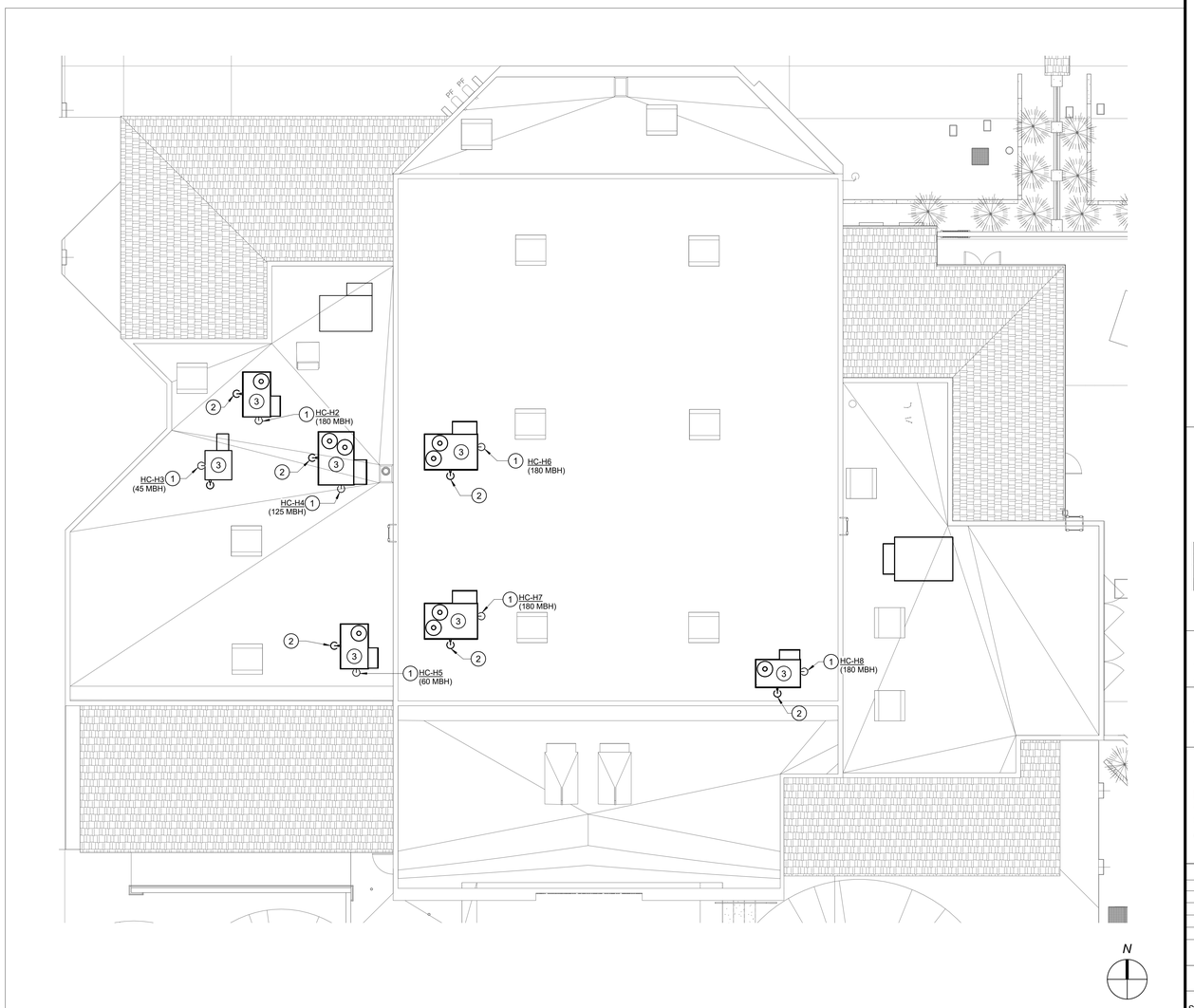

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1/8" = 1'-0"

BUILDING H - PLUMBING ROOF PLAN

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H/P301

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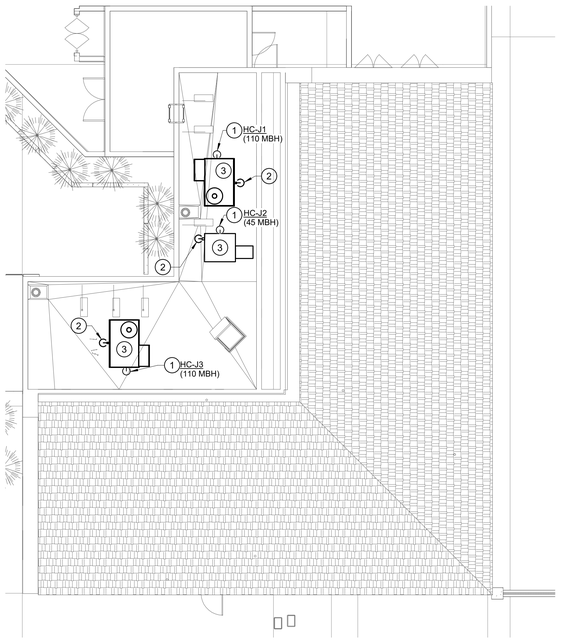

N

A7
1/8" = 1'-0"

BUILDING J - MECHANICAL ROOF PLAN

General Notes

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Consultant

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J/P301

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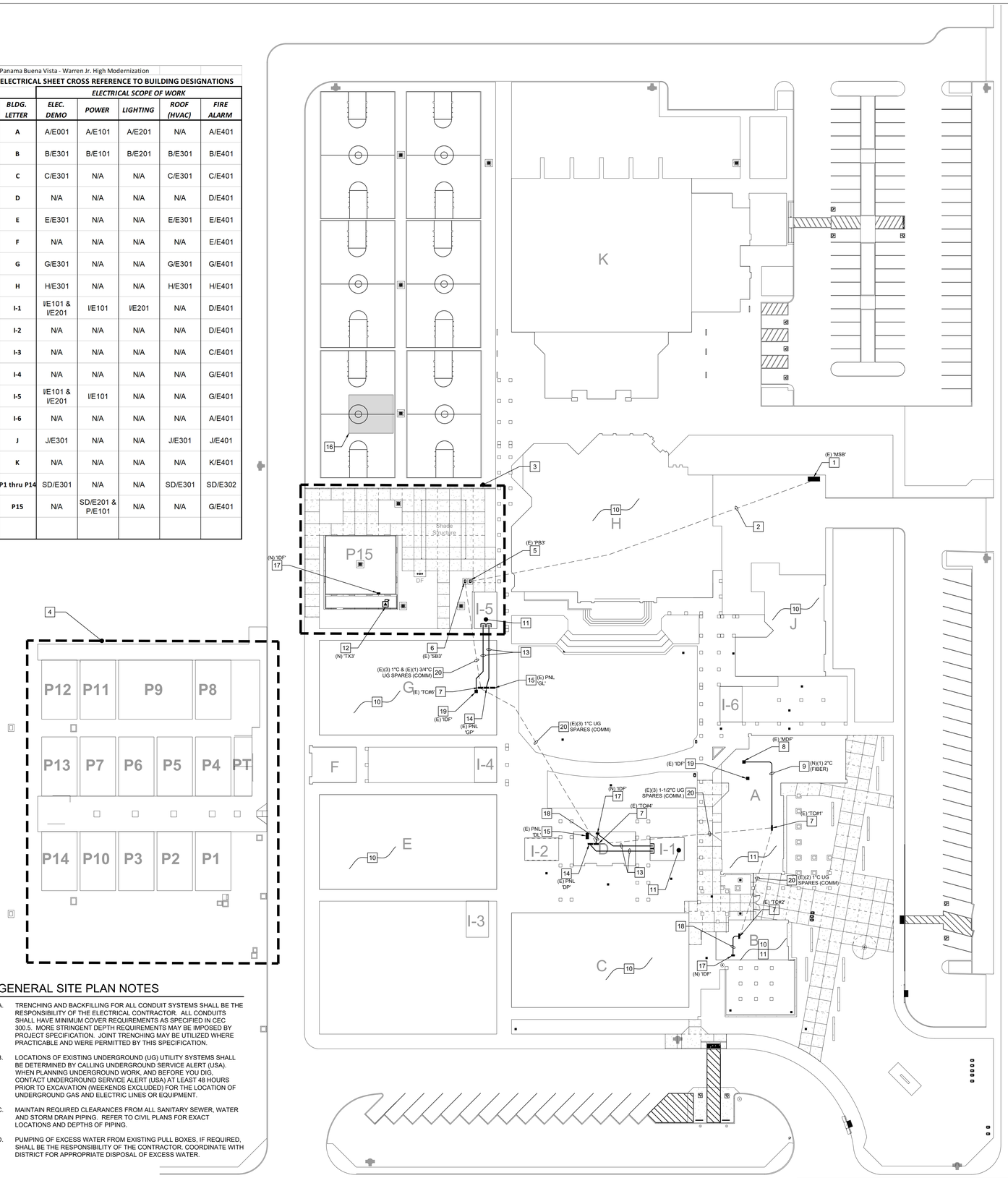
Panama Buena Vista - Warren Jr. High Modernization

ELECTRICAL SHEET CROSS REFERENCE TO BUILDING DESIGNATIONS

	ELECTRICAL SCOPE OF WORK				
BLDG. LETTER	ELEC. DEMO	POWER	LIGHTING	ROOF (HVAC)	FIRE ALARM
A	A/E001	A/E101	A/E201	N/A	A/E401
B	B/E301	B/E101	B/E201	B/E301	B/E401
C	C/E301	N/A	N/A	C/E301	C/E401
D	N/A	N/A	N/A	N/A	D/E401
E	E/E301	N/A	N/A	E/E301	E/E401
F	N/A	N/A	N/A	N/A	E/E401
G	G/E301	N/A	N/A	G/E301	G/E401
H	H/E301	N/A	N/A	H/E301	H/E401
I-1	I/E101 & I/E201	I/E101	I/E201	N/A	D/E401
I-2	N/A	N/A	N/A	N/A	D/E401
I-3	N/A	N/A	N/A	N/A	C/E401
I-4	N/A	N/A	N/A	N/A	G/E401
I-5	I/E101 & I/E201	I/E101	N/A	N/A	G/E401
I-6	N/A	N/A	N/A	N/A	A/E401
J	J/E301	N/A	N/A	J/E301	J/E401
K	N/A	N/A	N/A	N/A	K/E401
P1 thru P14	SD/E301	N/A	N/A	SD/E301	SD/E302
P15	N/A	SD/E201 & P/E101	N/A	N/A	G/E401



GENERAL SITE PLAN NOTES

A. TRENCHING AND BACKFILLING FOR ALL CONDUIT SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL HAVE MINIMUM COVER REQUIREMENTS AS SPECIFIED IN CEC 300.5. MORE STRINGENT DEPTH REQUIREMENTS MAY BE IMPOSED BY PROJECT SPECIFICATION. JOINT TRENCHING MAY BE UTILIZED WHERE PRACTICABLE AND WERE PERMITTED BY THIS SPECIFICATION.

B. LOCATIONS OF EXISTING UNDERGROUND (UG) UTILITY SYSTEMS SHALL BE DETERMINED BY CALLING UNDERGROUND SERVICE ALERT (USA). WHEN PLANNING UNDERGROUND WORK, AND BEFORE YOU DIG, CONTACT UNDERGROUND SERVICE ALERT (USA) AT LEAST 48 HOURS PRIOR TO EXCAVATION (WEEKENDS EXCLUDED) FOR THE LOCATION OF UNDERGROUND GAS AND ELECTRIC LINES OR EQUIPMENT.

C. MAINTAIN REQUIRED CLEARANCES FROM ALL SANITARY SEWER, WATER AND STORM DRAIN PIPING. REFER TO CIVIL PLANS FOR EXACT LOCATIONS AND DEPTHS OF PIPING.

D. PUMPING OF EXCESS WATER FROM EXISTING PULL BOXES, IF REQUIRED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE WITH DISTRICT FOR APPROPRIATE DISPOSAL OF EXCESS WATER.

NORTH

ELECTRICAL SITE PLAN

SCALE: 1"= 30'-0"

NOTE:
ROUTING SHOWN FOR ALL EXISTING UNDERGROUND CONDUITS IS APPROXIMATE. FIELD VERIFY EXISTING ROUTING AND LOCATION.

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15-95

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SHEET REFERENCE NOTES

1. (E) 1600A, 480Y/277V, 3PH, 4W MAIN SWITCHBOARD 'MSB' TO REMAIN. POINT OF CONNECTION FOR (N) TRANSFORMER SERVING (N) PORTABLE CLASSROOM BUILDING 'P15' IS WITHIN THE DISTRIBUTION SECTION OF THIS SWITCHBOARD--REFER TO SINGLE LINE DIAGRAM.
2. (E)(1) 3"C UNDERGROUND SPARE TO BE UTILIZED FOR (N) TRANSFORMER 'TX3' POWER FEED (SERVES (N) PORTABLE CLASSROOM 'P15' AND FUTURE PORTABLE LOADS). REFER TO SINGLE LINE DIAGRAM FOR (N) POWER FEEDER TO BE PULLED IN (E) CONDUIT. FIELD VERIFY ROUTING OF (E) UNDERGROUND CONDUIT--LOCATION SHOWN IS BASED ON AVAILABLE RECORD DRAWINGS.
3. AREA OF WORK FOR (N) PORTABLE CLASSROOM BUILDING 'P15', (N) SHADE STRUCTURE, AND (E) '1-5' LOCKER ROOM AREA REMODEL; SEE ENLARGED PLANS ON SHEET SD/E201 FOR MORE INFORMATION IN THIS AREA.
4. AREA OF WORK FOR (E) PORTABLE CLASSROOM BUILDINGS (N) MECHANICAL EQUIPMENT UPGRADES; SEE ENLARGED PLANS ON SHEET SD/E301 FOR MORE INFORMATION IN THIS AREA.
5. (E) IN-GRADE CONCRETE PULLBOX FOR POWER TO REMAIN. FIELD VERIFY LOCATION AND SIZE.
6. (E) IN-GRADE CONCRETE PULLBOX FOR SIGNAL/COMMUNICATIONS TO REMAIN. FIELD VERIFY LOCATION AND SIZE.
7. (E) TERMINAL CABINET TO REMAIN.
8. APPROXIMATE LOCATION (E) CAMPUS MAIN DISTRIBUTION FRAME 'MDF' TO REMAIN. CONNECT (N) FIBER OPTIC CABLING FOR (N) BUILDING DATA SYSTEMS, PER COMMUNICATIONS RISER DIAGRAM ON SHEET X/E202, TO (E) FIBER PATCH PANEL AT (E) 'MDF'. COORDINATE WITH DISTRICT IT STAFF.
9. WHERE PRESENT AND EQUIPPED WITH SPARE AVAILABLE CAPACITY, UTILIZE (E) COMMUNICATIONS PATHWAY(S) FOR (N) FIBER CABLING BETWEEN (N) IDF CABINETS AND (E) MDF RACK, PER SHEET X/E202. OTHERWISE, PROVIDE (N) CONDUIT PATHWAY AS INDICATED IN ACCESSIBLE ABOVE CEILING SPACE.
10. REFER TO ELECTRICAL ROOF PLAN FOR THIS (E) BUILDING FOR (N) MECHANICAL EQUIPMENT UPGRADES ELECTRICAL SCOPE OF WORK.
11. REFER TO ELECTRICAL AND LIGHTING FLOOR PLANS FOR THIS (E) BUILDING FOR (N) DEMOLITION AND ELECTRICAL SCOPE OF WORK ASSOCIATED WITH RENOVATIONS PER ARCHITECTURAL PLANS.
12. (N) 150KVA, 480V:208/120V, NEMA 3R, PAD-MOUNTED STEP-DOWN TRANSFORMER AND (N) 400A, 480VAC, 3-POLE, NEMA 3R, NON-FUSED TRANSFORMER DISCONNECT SWITCH LOCATED IN FENCED EQUIPMENT YARD AREA BEHIND (N) PORTABLE CLASSROOM 'P15'. REFER TO ENLARGED SITE PLAN, SHEET SD/E201, AND SINGLE LINE DIAGRAM FOR FURTHER INFORMATION.
13. PROVIDE (N)(1) 1"C MIN. (POWER TO 120/208V BLDG. PANEL) AND (N)(1) 1-1/4"C (DATA TO BLDG. IDF CABINET) TO (E) ADJACENT 'I' BUILDING IN ORDER TO ESTABLISH PATHWAYS FOR (N) POWER AND DATA RENOVATIONS IN 'I' BUILDING. ROUTE ALONG TOP-SIDE OF (E) WALKWAY CANOPIES AND THROUGH (E) ACCESSIBLE CEILING/ATTIC SPACES IN BUILDINGS.
14. (E) 120/208V, 3PH SUB-PANEL TO REMAIN. PROVIDE (N) BRANCH CIRCUIT CONDUIT PATHWAY TO (E) ADJACENT 'I' BUILDING AS SHOWN FOR (N) POWER WIRING DEVICE LOADS. REFER TO POWER/SIGNAL FLOOR PLANS (SHEET I/E101) FOR FURTHER INFORMATION.
15. (E) 277/480V, 3PH PANEL TO REMAIN. UTILIZE (E) CONDUIT AND BRANCH CIRCUIT CONDUCTORS TO (E) ADJACENT 'I' BUILDING FOR (N) 277V LIGHTING LOADS; REFER TO LIGHTING FLOOR PLAN (SHEET I/E201).
16. LOCATION OF PROJECT DEFINED SAFE DISPERSAL AREA, SEE SHEET G-001 FOR LOCATION. SEE REFERENCED AREA OF WORK ELECTRICAL PLAN FOR LOCATION OF ASSOCIATED EGRESS LIGHTING.
17. PROVIDE (N) WALL MOUNTED INTERMEDIATE DISTRIBUTION FRAME ' IDF' CABINET INSIDE BUILDING PER DISTRICT IT STANDARDS. CONFIRM LOCATION WITH DISTRICT PRIOR TO INSTALLATION. PROVIDE (N) FIBER OPTIC CABLING CONNECTIONS TO (N) FIBER OPTIC TERMINATION POINT IN (N) IDF CABINET, PER COMMUNICATIONS RISER DIAGRAM (SHEET X/E202). REFER TO DETAIL 2/X/E302 FOR CABINET AND CONTENTS INFORMATION AND DETAIL 3/X/E302 FOR MOUNTING.
18. PROVIDE (N)(1) 2"C PATHWAY IN ABOVE CEILING ACCESSIBLE SPACES FOR (N) FIBER CABLING PER COMMUNICATIONS RISER DIAGRAM (SHEET X/E202).
19. APPROXIMATE LOCATION OF (E) BUILDING IDF TO REMAIN (FIELD VERIFY EXACT LOCATION). CONNECT (N) DATA DEVICES (SHOWN ON POWER/SIGNAL FLOOR PLANS) TO (E) IDF CABINET PATCH PANEL PER COMMUNICATIONS RISER DIAGRAM ON SHEET X/E202.
20. (E) COMM. U/G CONDUIT TO BE USED FOR (N) FIBER CABLE ROUTING.

General Notes

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EXPIRES: 06/30/26
Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

ELECTRICAL SITE PLAN

Drawing

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LICENSED ARCHITECT ROBERT K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	SD/E101
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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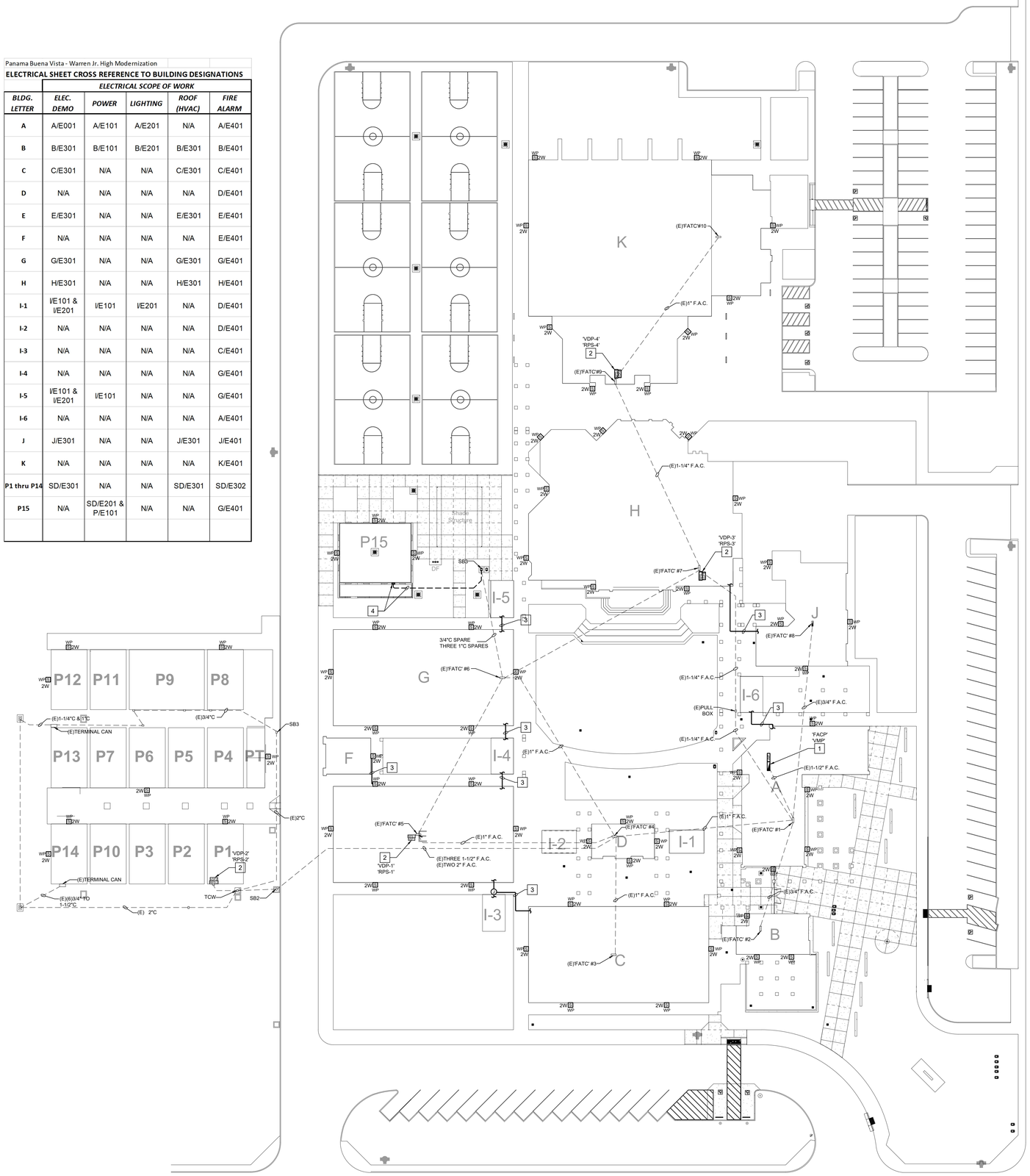
Panama Buena Vista - Warren Jr. High Modernization

ELECTRICAL SHEET CROSS REFERENCE TO BUILDING DESIGNATIONS

	ELECTRICAL SCOPE OF WORK				
BLDG. LETTER	ELEC. DEMO	POWER	LIGHTING	ROOF (HVAC)	FIRE ALARM
A	A/E001	A/E101	A/E201	N/A	A/E401
B	B/E301	B/E101	B/E201	B/E301	B/E401
C	C/E301	N/A	N/A	C/E301	C/E401
D	N/A	N/A	N/A	N/A	D/E401
E	E/E301	N/A	N/A	E/E301	E/E401
F	N/A	N/A	N/A	N/A	E/E401
G	G/E301	N/A	N/A	G/E301	G/E401
H	H/E301	N/A	N/A	H/E301	H/E401
I-1	I/E101 & I/E201	I/E101	I/E201	N/A	D/E401
I-2	N/A	N/A	N/A	N/A	D/E401
I-3	N/A	N/A	N/A	N/A	C/E401
I-4	N/A	N/A	N/A	N/A	G/E401
I-5	I/E101 & I/E201	I/E101	N/A	N/A	G/E401
I-6	N/A	N/A	N/A	N/A	A/E401
J	J/E301	N/A	N/A	J/E301	J/E401
K	N/A	N/A	N/A	N/A	K/E401
P1 thru P14	SD/E301	N/A	N/A	SD/E301	SD/E302
P15	N/A	SD/E201 & P/E101	N/A	N/A	G/E401



FIRE ALARM SITE PLAN

SCALE: 1"= 30'-0"

NORTH

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

1. NEW MAIN FIRE ALARM CONTROL PANEL "FACP" AND VOICE NET MASTER PANEL "VMP". SEE FIRE ALARM RISER DIAGRAM SHEET X/E401.
2. FIRE ALARM REMOTE POWER SUPPLY 'RPS' AND VOICE DISTRIBUTION PANEL 'VDP', SEE FIRE ALARM RISER DIAGRAM SHEET X/FA100.
3. NEW (1)1" FIRE ALARM CONDUIT WITH CONDUCTORS MOUNTED ON THE UNDERSIDE COVERED WALKWAY. CONTINUE ON ASSOCIATED FLOOR PLAN.
4. NEW UNDERGROUND FIRE ALARM CONDUIT AND SIGNAL CABINET. SEE BUILDING 15 AND SHADE STRUCTURE ENLARGED ELECTRICAL SITE PLAN SHEET SD/E201.

GENERAL FIRE ALARM PLAN NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, AND CONDUCTORS SHALL BE REMOVED. EXSITING RACEWAYS AND SUPPORTS CAN REMAIN AND BE REUSED FOR INSTALLATION OF NEW FIRE ALARM SYSTEM. STAINLESS STEEL BLANK COVERS SHALL BE INSTALLED ON ALL BOXES NOT USED DURING INSTALLATION OF NEW FIRE ALARM SYSTEM. OVERSIZED BLANK STAINLESS STEEL COVER PLATES SHALL BE USED TO COMPLETELY CONCEAL EXISTING OUTLET BOXES.
2. ALL NEW FIRE ALARM CABLING TO BE INSTALLED IN NEW RACEWAYS AND NEW J-HOOKS, MINIMUM CONDUIT SIZE IS 3/4" WITH CONDUIT FILL NOT TO EXCEED 40%. EXISTING RACEWAYS AND J-HOOKS MAY BE REUSED WHERE AVAILABLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ACCESSIBLE CEILING SPACES AND INACCESSIBLE CEILING SPACES. NEW RACEWAY SHALL BE CONCEALED WHERE POSSIBLE.
3. FIRE WATCH - DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.
4. MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN SMOKE DETECTORS AND AIR SUPPLIES. SMOKE DETECTOR INSTALLATION SHALL BE AS CLOSE TO PLAN AS POSSIBLE WITH MEETING THE 3'-0" RULE.
5. CO DETECTOR LOCATIONS - BASED ON AS-BUILT DRAWING AND LIMITED FIELD INVESTIGATION, CO DETECTORS HAVE BEEN PROVIDED AND LOCATED NEAREST TO THE FIRST SUPPLY REGISTER COMING FROM THE HVAC UNIT INTO THE CLASSROOM.
6. ATTIC ACCESS DOORS - WHERE EQUIPMENT IS INSTALLED IN AREAS ABOVE INACCESSIBLE CEILING SPACES, CONTRACTOR TO PROVIDE AND INSTALL REQUIRED ACCESS DOORS FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT. CONTRACTOR TO FIELD VERIFY LOCATIONS WHERE ACCESS DOORS WILL BE REQUIRED, REFER TO ARCHITECTURAL PLANS FOR ACCESS DOOR INFORMATION.
7. CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING AND WALL FINISHES IN KIND AS REQUIRED FOR INSTALLATION OF NEW WORK, FIELD COORDINATE AND VERIFY EXISTING CEILINGS AND WALL FINISHES WITH ARCHITECTURAL PLANS.

General Notes

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EXPIRES: 06/30/26

Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

FIRE ALARM SITE PLAN

Drawing

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LICENSED ARCHITECT TRUPREET K. FENG No. C23724 Exp. 4-30-24 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Scale: AS NOTED	Designed By: PM	Copyright 2022 Darden Architects
Project Number: 2228	Drawn By: KH	SD/E102
Date: 03/22/2023	Checked By: JT	
	Reviewed By: JT	

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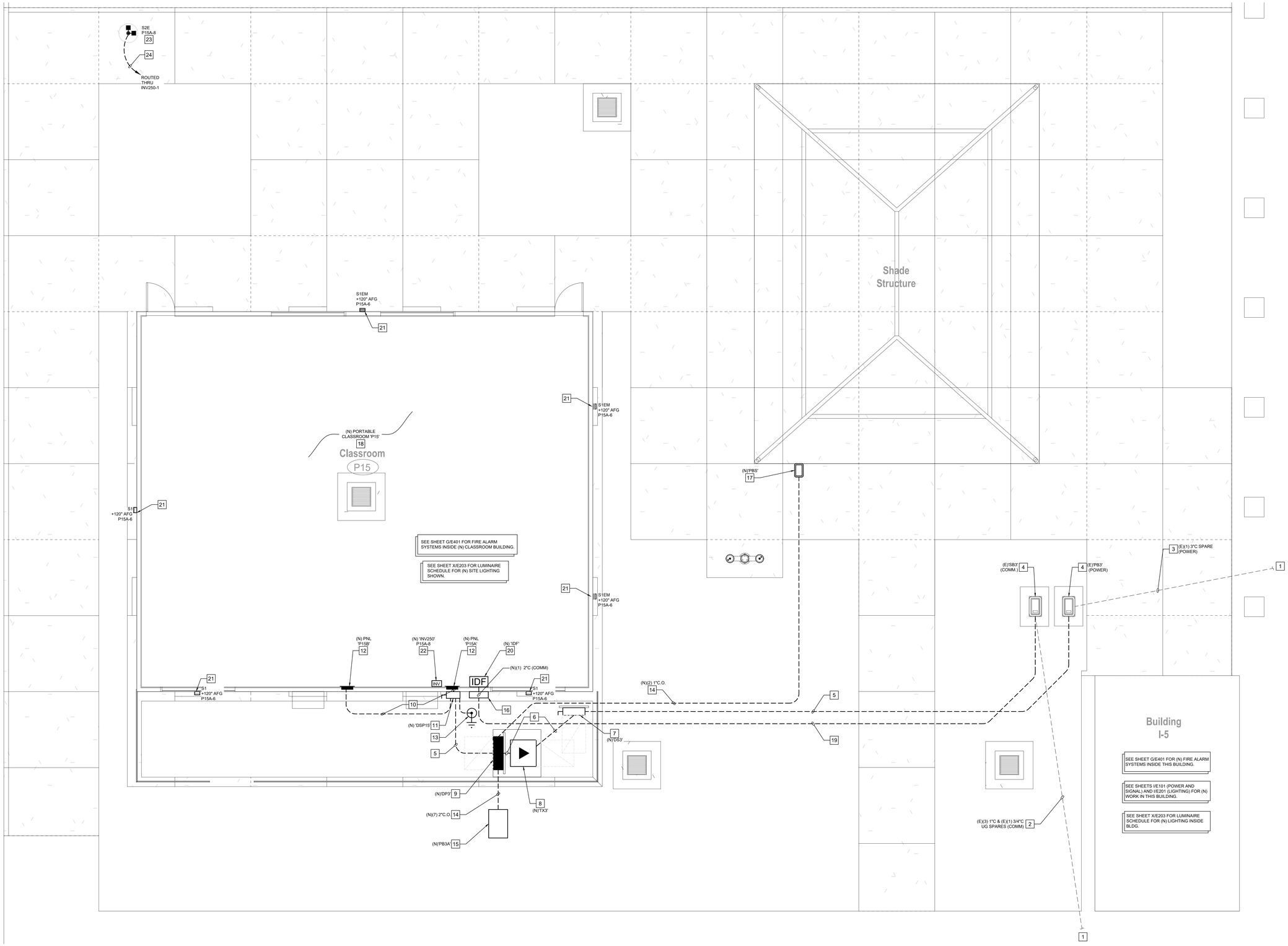

BLDG P15 AND SHADE STRUCTURE ENLARGED ELECTRICAL SITE PLAN

NORTH

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

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SHEET REFERENCE NOTES

1. SEE SHEET SD/E101 FOR CONTINUATION.
2. (E) TELECOM UG CONDUIT TO BE USED FOR (N) COMMUNICATIONS CABLE ROUTING TO (N) BLDG. P15 (REFER TO SHEETS X/E202, X/E401, & G/E401 FOR CONTENTS).
3. UTILIZE (E) UG SPARE POWER CONDUIT FOR (N) FEEDER PER SINGLE LINE DIAGRAM.
4. (E) IN-GRADE PULLBOX TO REMAIN AND BE PROTECTED IN PLACE DURING CONSTRUCTION. UTILIZE (E) BOX FOR (N) WIRE/CABLING PULLS. ENSURE LID IS APPROPRIATELY LABELED FOR ITS USE ("POWER", "COMMUNICATIONS", ETC.)--REPLACE LID AS NECESSARY.
5. INSTALL (N) UG POWER FEEDER IN TRENCH PER SINGLE LINE DIAGRAM.
6. PROVIDE POWER CONNECTIONS AND CONDUITS BETWEEN (N) EQUIPMENT PER SINGLE LINE DIAGRAM.
7. (N) NEMA 3R DISCONNECT SWITCH FOR (N) TRANSFORMER PRIMARY FEED PER SINGLE LINE DIAGRAM. MOUNT TO UNISTRUT AND STEEL POST ASSEMBLY PER DETAIL 6/X/E301.
8. (N) 150KVA, 480V:208/120V, NEMA 3R, PAD-MOUNTED STEP-DOWN TRANSFORMER "TX3" PER SINGLE LINE DIAGRAM. PROVIDE (N) CONCRETE PAD (CONFIGURE PER DETAIL 5/X/E301) AND MOUNT PER 4/X/E301. VERIFY PAD SIZE WITH SUPPLIED EQUIPMENT. PROVIDE GROUNDING ELECTRODE SYSTEM FOR SEPARATELY DERIVED SYSTEM IN ACCORDANCE TO DETAILS 2 & 3 ON SHEET X/E201.
9. (N) 600A, 120/208V, 3Ø, 4W DISTRIBUTION PANELBOARD, "DP3", SURFACE MOUNTED TO (N) H-FRAME AT REAR OF RELOCATABLE BUILDING ON PAD SHARED WITH (N) TRANSFORMER. REFER TO SINGLE LINE DIAGRAM ON SHEET X/E201 AND DETAIL 5/X/E301.
10. PROVIDE FEEDER TAPS FROM (N) PORTABLE CLASSROOM SUPPLY DISCONNECT SWITCH ("DSP15") TO EACH (N) PORTABLE CLASSROOM BUILDING SUB-PANEL. PER SINGLE LINE DIAGRAM. TAPPED FEEDERS SHALL REMAIN ROUTED OUTSIDE THE BUILDING UNTIL ENTRANCE AT THE POINT OF LOAD TERMINATION INTO THE BUILDING MANUFACTURER PROVIDED SUB-PANELS. ALL REQUIREMENTS OF CEC 240.21(B)(5) FOR OUTSIDE TAPS OF UNLIMITED LENGTH SHALL BE MET WITH THE TAP INSTALLATION.
11. (N) 200A, 208V, 2-POLE, 3-WIRE, NEMA 3R, NON-FUSED DISCONNECT SWITCH FOR (N) PORTABLE CLASSROOM BUILDING SUPPLY POWER FEED PER SINGLE LINE DIAGRAM, AND IN ACCORDANCE TO CEC 225.31 & 225.32. SURFACE MOUNT TO REAR OF PORTABLE CLASSROOM BUILDING EXTERIOR WALL. REFER TO DETAIL 4/X/E201 FOR GROUNDING REQUIREMENTS.
12. (N) 100A (100A MCB), 120/208V, 1PH, 3W ELECTRICAL SUB-PANEL PROVIDED BY BUILDING MANUFACTURER. FIELD VERIFY LOCATION FOR ELECTRICAL CONNECTION. SEE SINGLE LINE DIAGRAM (X/E201) FOR FEEDER CONDUIT AND CONDUCTOR SIZING.
13. (N) FLUSH IN-GRADE ROUND 12" GROUND BOX. LABEL LID "GROUND". REFER TO DETAIL 4/X/E201 FOR FURTHER INFORMATION.
14. INSTALL UNDERGROUND CONDUIT ONLY SPARES (QUANTITY AND SIZE AS INDICATED) IN TRENCH WITH PULL STRING FOR FUTURE POWER NEEDS.
15. (N) 24"X36" ELECTRICAL PULL BOX. LID TO BE MARKED "ELECTRIC". SEE DETAIL 2/X/E301.
16. (N) 24"X24"X8" MIN (HINGED AND LOCKABLE) NEMA 3R SIGNAL CABINET MOUNTED TO (N) BUILDING EXTERIOR WALL FOR (N) DATA AND FIRE ALARM BUILDING ENTRANCE CABLING. PROVIDE ENGRAVED LABEL ON COVER INDICATING "SIGNAL CABINET". SEE DETAIL 8/X/E301.
17. (N) 10W" X 15"L X 12"D IN-GRADE POWER PULL BOX (B.O.D CHRISTY B09) FOR SHADE STRUCTURE (F) 120V POWER NEEDS. LABEL LID "ELECTRIC", REFER TO DETAIL 2/X/E301.
18. REFER TO PORTABLE CLASSROOM BUILDING MANUFACTURER SHEETS FOR ALL POWER AND LIGHTING DEVICES PROVIDED INTERIOR AND EXTERIOR TO BUILDING THAT ARE TO BE PROCURED AND INSTALLED BY THE RELOCATABLE BUILDING MANUFACTURER--ANY EXTERIOR LIGHTING DEVICES SHOWN ON THIS SHEET, UNLESS NOTED OTHERWISE, ARE TO BE PROCURED AND INSTALLED BY THE EC. EC SHALL BE RESPONSIBLE FOR PROVIDING ALL TELECOMMUNICATIONS DEVICES, AS WELL AS CABLING AND ABOVE CEILING RACEWAYS FOR ALL TELECOM RELATED DEVICES, AND TERMINATE AT THE (N) IDF CABINET; REFER TO SHEET P/E101 FOR FURTHER INFORMATION.
19. PROVIDE (N)(3) 2"C UNDERGROUND FOR (N) TELECOM SIGNAL CABLING & (N) FIRE ALARM CABLING (REFER TO SHEETS X/E202 AND X/E401, RESPECTIVELY, FOR CONTENTS); ONE OF THE THREE CONDUITS PROVIDED IS A SPARE. REFER TO TRENCH DETAIL 1/X/E301. FIELD VERIFY ROUTING, LOCATE AND PROTECT (E) UNDERGROUND UTILITIES.
20. (N) INTERMEDIATE DISTRIBUTION FRAME ' IDF' CABINET INSIDE (N) BUILDING. REFER TO SHEET P/E101 FOR FURTHER INFORMATION.
21. (N) WALL PACK AREA LIGHT. MOUNT ON PORTABLE BLDG. CONNECT TO ASSIGNED BLDG. PANEL CIRCUIT WITH CONDUIT INSTALLED IN ACCESSIBLE CEILING SPACE. (MC CABLE PERMITTED FOR USE IN ABOVE CEILING SPACES OF PORTABLE).
22. (N) EMERGENCY LIGHTING INVERTER (REFER TO SHEET X/E203 MISC. LUMINAIRE SCHEDULE FOR REQUIREMENTS) FOR (N) POLE MOUNTED EGRESS LIGHTING. CONNECT TO ASSIGNED BLDG. PANEL CIRCUIT WITH CONDUIT INSTALLED IN ACCESSIBLE CEILING SPACE AND EXPOSED ON WALL.
23. (N) POLE MOUNTED AREA LIGHT. SEE DETAIL 6/X/E303 AND LUMINAIRE SCHEDULE ON SHEET X/E203.
24. (N) 120V UG POWER CIRCUIT , 3/4"C; (3)#12 CU, TO EMERGENCY LIGHTING INVERTER 'INV250'.

General Notes

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EXPIRES: 06/30/26
THOMA #22-8087
Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING P15 AND SHADE STRUCTURE ENLARGED ELECTRICAL SITE PLAN

Drawing

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LICENSED ARCHITECT RICHARD K. DARDEN No. C23724 Exp. 4-30-23 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	SD/E201
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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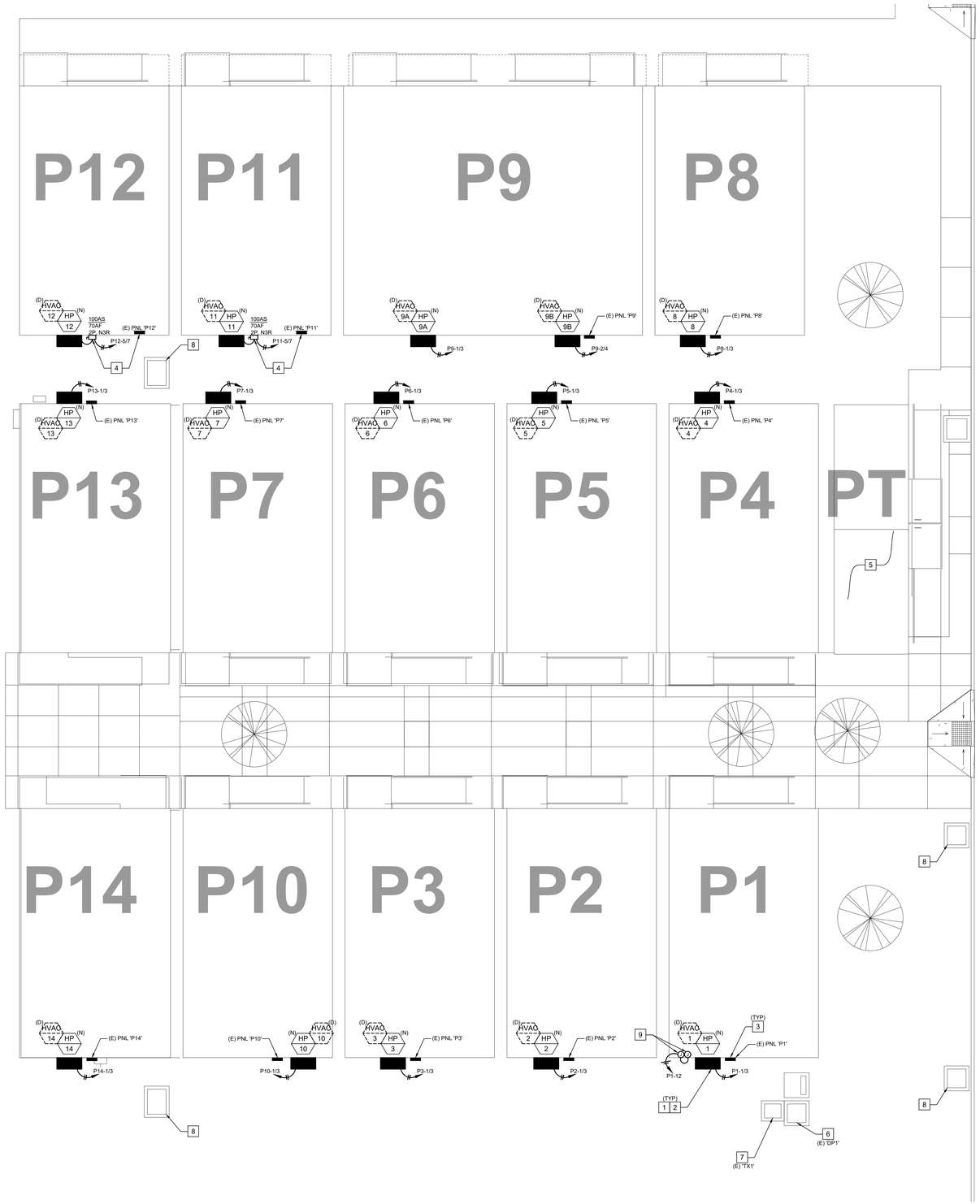

PORTABLE BLDGS P1 THRU 14 ENLARGED ELECTRICAL SITE PLAN

SCALE: 1/8" = 1' 0"

PBVUSD WARREN JR. HIGH MODERNIZATION 11/9/2022

ELECTRICAL DETAIL FOR HVAC UPGRADES TE# 22-8087

BLDG #	EXISTING - DEMOLITION								
ROOM NO.	HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [EST FLA]	CIRC. BRKR. (A/#P)	WIRE (AWG, CU)	DIS. SW.	NOTES
"P"									
Rm. P1	HVAC-1	P1-1/3	208	1	55	70/2	#6	TBR	D1
Rm. P2	HVAC-2	P2-1/3	208	1	55	70/2	#6	TBR	D1, D2
Rm. P3	HVAC-3	P3-1/3	208	1	44.2	70/2	#6	TBR	D1
Rm. P4	HVAC-4	P4-1/3	208	1	55	70/2	#6	TBR	D1, D2
Rm. P5	HVAC-5	P5-1/3	208	1	41.6	60/2	#6	TBR	D1, D2
Rm. P6	HVAC-6	P6-1/3	208	1	44.2	70/2	#6	TBR	D1
Rm. P7	HVAC-7	P8-1/3	208	1	44.2	70/2	#6	TBR	D1
Rm. P8	HVAC-8	P8-1/3	208	1	41.4	60/2	#6	TBR	D1, D2
Rm. P9A	HVAC-9A	P9-1/3	208	1	48.9	70/2	#4	TBR	D1
Rm. P9B	HVAC-9B	P9-2/4	208	1	48.9	70/2	#4	TBR	D1
Rm. P10	HVAC-10	P10-1/3	208	1	55	70/2	#6	TBR	D1
Rm. P11	HVAC-11	P11-5/7	208	1	41.6	60/2	#6	TBR	D1
Rm. P12	HVAC-12	P12-5/7	208	1	41.6	60/2	#6	TBR	D1
Rm. P13	HVAC-13	P13-1/3	208	1	55	70/2	#6	TBR	D1
Rm. P14	HVAC-14	P14-1/3	208	1	55	70/2	#6	TBR	D1

DEMOLITION NOTES

D1	DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO THE (E) HVAC UNIT.	
D2	NO RECORD DRAWINGS AVAILABLE; LOAD SHOWN IS AN ESTIMATE.	
TBR	=	TO BE REMOVED
SPST	=	SINGLE POLE - SINGLE THROW
NF	=	NON-FUSED

BLDG #	NEW WORK (REPLACEMENT EQUIPMENT)											
ROOM NO.	HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [HP]	CIRC. BRKR. (A/#P) [MOCP]	WIRE (AWG, CU) [MCA]	DIS. SW.	CHANGE IN LOAD (AMPS)	UPSTREAM SOURCE PANEL	DUCT DETECTOR REQD.	NOTES
"P"												
Rm. P1	HP-1	P1-1/3	208	1	42.1	60/2 [60A]	#6 [58]	N/A; SEE NOTE 'N4'	-12.9	DP1	NO*	N1, N3
Rm. P2	HP-2	P2-1/3	208	1	42.1	60/2 [60A]	#6 [58]	N/A; SEE NOTE 'N4'	-12.9	DP1	NO*	N1, N3
Rm. P3	HP-3	P3-1/3	208	1	42.1	60/2 [60A]	#6 [58]	N/A; SEE NOTE 'N4'	-2.1	DP1	NO*	N1, N3
Rm. P4	HP-4	P4-1/3	208	1	42.1	60/2 [60A]	#6 [58]	N/A; SEE NOTE 'N4'	-12.9	DP1	NO*	N1, N3
Rm. P5	HP-5	P5-1/3	208	1	42.3	70/2 [70A]	#6 [61]	N/A; SEE NOTE 'N4'	0.7	DP1	NO*	N1, N3
Rm. P6	HP-6	P6-1/3	208	1	42.1	60/2 [60A]	#6 [58]	N/A; SEE NOTE 'N4'	-2.1	DP1	NO*	N1, N3
Rm. P7	HP-7	P8-1/3	208	1	42.1	60/2 [60A]	#6 [58]	N/A; SEE NOTE 'N4'	-2.1	DP2	NO*	N1, N3
Rm. P8	HP-8	P8-1/3	208	1	42.3	70/2 [70A]	#6 [61]	N/A; SEE NOTE 'N4'	0.9	DP1	NO*	N1, N3
Rm. P9A	HP-9A	P9-1/3	208	1	42.3	70/2 [70A]	#6 [61]	N/A; SEE NOTE 'N4'	-6.6	DP1	NO*	N1, N3
Rm. P9B	HP-9B	P9-2/4	208	1	42.3	70/2 [70A]	#6 [61]	N/A; SEE NOTE 'N4'	-6.6	DP1	NO*	N1, N3
Rm. P10	HP-10	P10-1/3	208	1	42.1	60/2 [60A]	#6 [58]	N/A; SEE NOTE 'N4'	-12.9	DP2	NO*	N1, N3
Rm. P11	HP-11	P11-5/7	208	1	42.3	70/2 [70A]	#6 [61]	100AS/70AF, 2P	0.7	DP1	NO*	N1, N2, N3
Rm. P12	HP-12	P12-5/7	208	1	42.3	70/2 [70A]	#6 [61]	100AS/70AF, 2P	0.7	DP1	NO*	N1, N2, N3
Rm. P13	HP-13	P13-1/3	208	1	42.1	60/2 [60A]	#6 [58]	N/A; SEE NOTE 'N4'	-12.9	DP2	NO*	N1, N3
Rm. P14	HP-14	P14-1/3	208	1	42.1	60/2 [60A]	#6 [58]	N/A; SEE NOTE 'N4'	-12.9	DP2	NO*	N1, N3

NEW WORK NOTES * UNIT SUPPLY ≤2000CFM

N1	PROVIDE NEW ELECTRICAL CONNECTION TO REPLACEMENT HVAC EQUIPMENT.
N2	PROVIDE NEW DISCONNECT SWITCH.
N3	PROVIDE NEW BRANCH CIRCUIT CONDUCTORS IN EXISITNG CONDUIT. CONNECT TO NEW BRANCH CIRCUIT BREAKER IN (E) PANEL.
N4	DISCONNECTING MEANS (CIRCUIT BREAKER) INSIDE (E) EXTERIOR SUB-PANEL IS WITHIN SIGHT OF NEW UNIT AND IS READILY ACCESSIBLE (CEC 440.14).

PROPOSED (N) WALL MOUNTED HEAT PUMPS ON (E) PANEL 'DP1' HAS, IN AGGREGATE, A REDUCED LOAD IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'DP1' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.

PROPOSED (N) WALL MOUNTED HEAT PUMPS ON (E) PANEL 'DP2' HAS, IN AGGREGATE, A REDUCED LOAD IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'DP2' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.

NET LOAD CHANGE ON (E) "DP1" PER "NEW WORK (REPLACEMENT EQUIPMENT)" TABLE:
(3) UNITS DECREASE BY 12.9.0A @208V 1PH OR = (3)*-12.9A*208V = -8.05KVA
(2) UNITS DECREASE BY 2.1A @208V 1PH OR = (2)*-2.1A*208V = -0.87KVA
(3) UNITS INCREASE BY 0.5A @208V 1PH OR = (3)*0.7A*208V = 0.44KVA
(1) UNIT INCREASE BY 0.7A @208V 1PH OR = (1)*0.9A*208V = 0.19KVA
(2) UNITS DECREASE BY 6.8A @208V 1PH OR = (2)*-6.6A*208V = -2.75KVA
TOTAL NET CHANGE IN LOAD ON (E) "DP1" = -11.04KVA

NET LOAD CHANGE ON (E) "DP2" PER "NEW WORK (REPLACEMENT EQUIPMENT)" TABLE:
(3) UNITS DECREASE BY 12.9A @208V 1PH OR = (3)*-12.9A*208V = -8.05KVA
(1) UNIT DECREASE BY 2.1A @208V 1PH OR = (1)*-2.1A*208V = -0.44KVA
TOTAL NET CHANGE IN LOAD ON (E) "DP2" = -8.49KVA

DSA File No.: *15-95*

DSA Application No.: *03-122615*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

1. DISCONNECT AND REMOVE (E) WALL MOUNTED HVAC UNIT.
2. (N) WALL MOUNTED HEAT PUMP UNIT PER MECHANICAL PLANS. PROVIDE (N) ELECTRICAL CONNECTIONS BETWEEN (E) PORTABLE CLASSROOM BUILDING ELECTRICAL SUB-PANEL AND (N) HEAT PUMP UNIT; REUTILIZE (E) CONDUIT PATHWAY (VERIFY 3/4" MINIMUM) WHERE POSSIBLE.
3. (E) 208V ELECTRICAL SUB-PANEL MOUNTED TO PORTABLE BUILDING EXTERIOR TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) BRANCH CIRCUIT BREAKER AND CONNECTION FOR (N) HEAT PUMP UNIT, PER "NEW WORK (REPLACEMENT EQUIPMENT)" TABLE ON THIS SHEET. (N) BREAKER TO MATCH AIC RATING OF (E) BREAKERS IN (E) 208V SUB-PANEL AND SHALL BE HACR RATED.
4. (E) 208V ELECTRICAL SUB-PANEL MOUNTED FLUSH INSIDE PORTABLE BUILDING TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) BRANCH CIRCUIT BREAKER AND CONNECTION FOR (N) HEAT PUMP UNIT, PER "NEW WORK (REPLACEMENT EQUIPMENT)" TABLE ON THIS SHEET. (N) BREAKER TO MATCH AIC RATING OF (E) BREAKERS IN (E) 208V SUB-PANEL AND SHALL BE HACR RATED. MOREOVER, PROVIDE (N) NEMA 3R FUSED DISCONNECT SWITCH (TO COMPLY WITH CEC 440.14) PER "NEW WORK (REPLACEMENT EQUIPMENT)" TABLE ON THIS SHEET. MOUNT (N) SWITCH TO BUILDING EXTERIOR WALL.
5. NO NEW POWER SCOPE OF WORK IN (E) PORTABLE TOILETS BUILDING.
6. (E) PAD MOUNTED DISTRIBUTION SWITCHBOARD TO REMAIN.
7. (E) PAD MOUNTED DISTRIBUTION DRY TYPE TRANSFORMER TO REMAIN.
8. (E) IN-GRADE ELECTRICAL PULLBOX TO REMAIN.
9. PROVIDE (N) 120V POWER TO (N) FIRE ALARM EQUIPMENT (SHOWN IN BUILDING "P1' ON SHEET SD/E302 AND FIRE ALARM RISER DIAGRAM SHEET X/E402) FROM PANEL 'P1' ((N) 120V, 20A/1P POWER CONNECTION ((1) 3/4"C - (2) #12 AND (1) #12 GND). CONTRACTOR SHALL ENSURE (N) CIRCUIT BREAKER HAS RED LOCKING HANDLE. MOREOVER, ENSURE PANEL DIRECTORY AND PANEL FRONT ARE CLEARLY LABELED "FIRE ALARM CIRCUIT".

General Notes

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EXPIRES: 06/30/26

Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

PORTABLE BLDGS
P1 THRU P14 ENLARGED
ELECTRICAL SITE PLAN

Drawing

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LICENSED ARCHITECT RUDOLF K. FENKO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: PM

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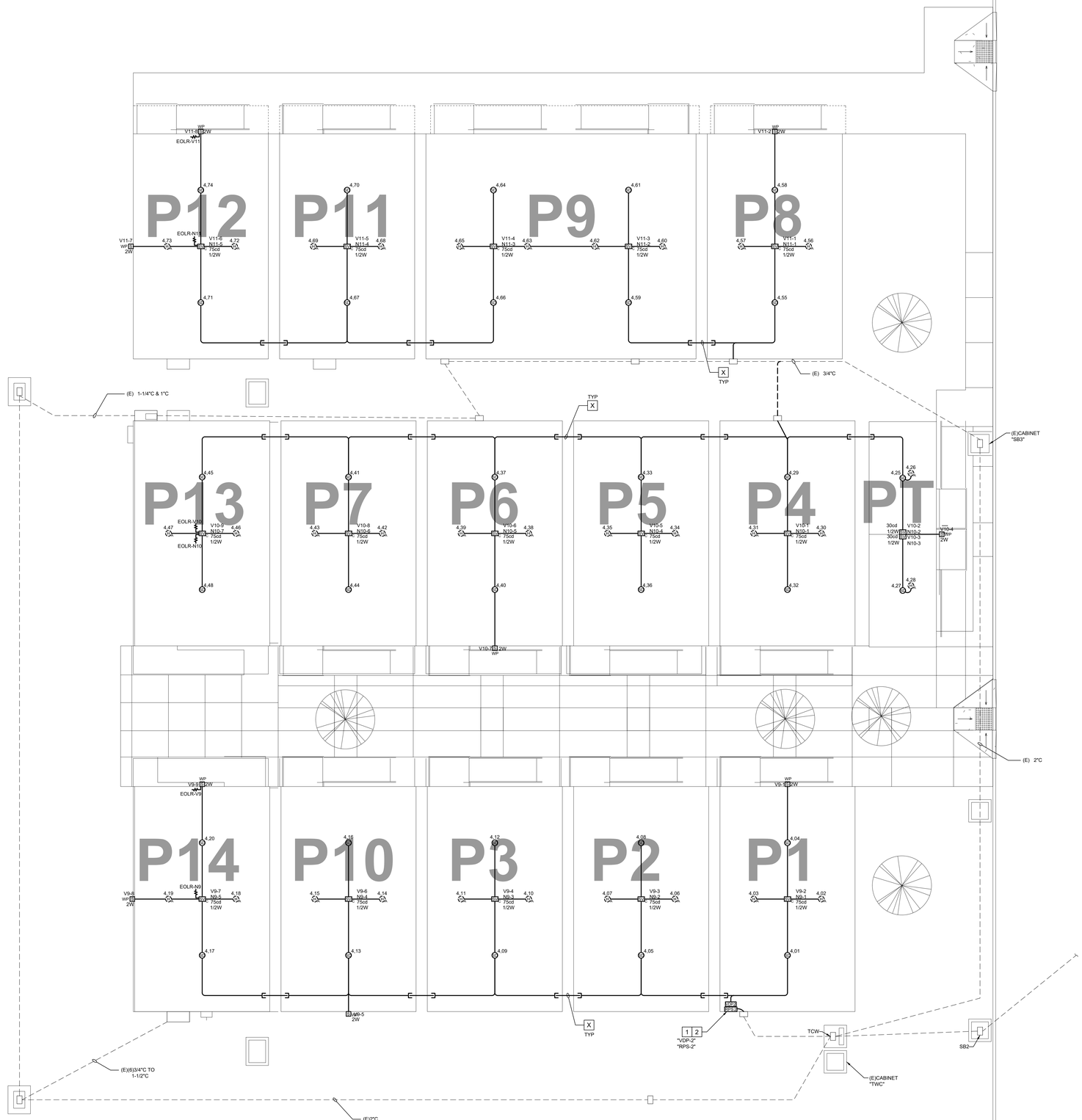
Scale: AS NOTED
Drawn By: KH
Project Number: 2228
Checked By: JT
Date: 03/22/2023
Reviewed By: JT

SD/E301



PORTABLES P1 THRU P14 FIRE ALARM PLAN

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

NORTH

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SHEET REFERENCE NOTES

1. FIRE ALARM VOICE DISTRIBUTION PANEL 'VDP-2' AND REMOTE POWER SUPPLY 'RPS-2'. SEE FIRE ALARM RISER DIAGRAM X/E401
2. REFER TO SHEET SD/E301 FOR 120V POWER REQUIREMENTS FOR (N) FIRE ALARM EQUIPMENT.
3. PROVIDE (1)1-1/2" FIRE ALARM CONDUIT STUB BETWEEN (E) BUILDINGS. SEE DETAIL 7-X/E403.

GENERAL FIRE ALARM PLAN NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, AND CONDUCTORS SHALL BE REMOVED. EXSITING RACEWAYS AND SUPPORTS CAN REMAIN AND BE REUSED FOR INSTALLATION OF NEW FIRE ALARM SYSTEM. STAINLESS STEEL BLANK COVERS SHALL BE INSTALLED ON ALL BOXES NOT USED DURING INSTALLATION OF NEW FIRE ALARM SYSTEM. OVERSIZED BLANK STAINLESS STEEL COVER PLATES SHALL BE USED TO COMPLETELY CONCEAL EXISTING OUTLET BOXES.
2. ALL NEW FIRE ALARM CABLING TO BE INSTALLED IN NEW RACEWAYS AND NEW J-HOOKS, MINIMUM CONDUIT SIZE IS 3/4" WITH CONDUIT FILL NOT TO EXCEED 40%. EXISTING RACEWAYS AND J-HOOKS MAY BE REUSED WHERE AVAILABLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ACCESSIBLE CEILING SPACES AND INACCESSIBLE CEILING SPACES. NEW RACEWAY SHALL BE CONCEALED WERE POSSIBLE.
3. FIRE WATCH - DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.
4. MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN SMOKE DETECTORS AND AIR SUPPLIES. SMOKE DETECTOR INSTALLATION SHALL BE AS CLOSE TO PLAN AS POSSIBLE WITH MEETING THE 3'-0" RULE.
5. CO DETECTOR LOCATIONS - BASED ON AS-BUILT DRAWING AND LIMITED FIELD INVESTIGATION, CO DETECTORS HAVE BEEN PROVIDED AND LOCATED NEAREST TO THE FIRST SUPPLY REGISTER COMING FROM THE HVAC UNIT INTO THE CLASSROOM.
6. ATTIC ACCESS DOORS - WHERE EQUIPMENT IS INSTALLED IN AREAS ABOVE INACCESSIBLE CEILING SPACES, CONTRACTOR TO PROVIDE AND INSTALL REQUIRED ACCESS DOORS FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT, CONTRACTOR TO FIELD VERIFY LOCATIONS WHERE ACCESS DOORS WILL BE REQUIRED, REFER TO ARCHITECTURAL PLANS FOR ACCESS DOOR INFORMATION.
7. CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING AND WALL FINISHES IN KIND AS REQUIRED FOR INSTALLATION OF NEW WORK, FIELD COORDINATE AND VERIFY EXISTING CEILINGS AND WALL FINISHES WITH ARCHITECTURAL PLANS.

General Notes

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EXPIRES: 06/30/26
Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

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Bakersfield, CA 93313

Project

PORTABLES P1 THRU P14
FIRE ALARM PLAN

Drawing

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LICENSED ARCHITECT GEORGE K. FERGUSON No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	SD/E302
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

K:\ENG\2022\22-8087\22-8087_15-SDE302_BLDG P FA FLR PLN-Reloadwg - Pat - Mar 22, 2023 - 7:47am

GENERAL NOTES

1. CODE COMPLIANCE: ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS, AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:

   A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES 2019 CALIFORNIA ELECTRICAL CODE, 2019 CALIFORNIA FIRE CODE, 2019 CALIFORNIA BUILDING CODE, 2019 CALIFORNIA ENERGY CODE, 2019 CALIFORNIA MECHANICAL CODE, ETC. WITH LOCAL AMENDMENTS AS APPLICABLE.

   B. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - NATIONAL FIRE ALARM AND SIGNALING CODE NFPA 72 - 2016 EDITION WITH CALIFORNIA AMENDMENTS

   C. AMERICANS WITH DISABILITIES ACT (ADA).

2. SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.

3. FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.

4. MOUNTING HEIGHTS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:

   +15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS. (MEASURED BOTTOM OF OUTLET BOX)
   +46" AFF: OUTLET ABOVE COUNTER (MEAUSRED TOP OF OUTLET BOX)
   +48" AFF: LIGHT SWITCHES. (MEASURED TOP OF OUTLET BOX)
   +48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS. (MEASURED TOP OF OUTLET BOX)
   THE LOWER OF +80" AFF TO BOTTOM OF LENS, OR 6" BELOW CEILING: FIRE ALARM VISUALS.

   ELECTRICAL SWITCHES: CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHT AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE OUTLET BOX NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE OUTLET BOX TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM. [CBC 11B-308.1.1]

   ELECTRICAL RECEPTACLE OUTLETS: ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED NO MORE THAN 48 INCHES MEASURED FROM THE TOP OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING NOR LESS THAN 15 INCHES MEASURED FROM THE BOTTOM OF THE RECEPTACLE OUTLET BOX OR RECEPTACLE HOUSING TO THE LEVEL OF THE FINISH FLOOR OR WORKING PLATFORM [CBC 11B-308.1.2]

   BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.

5. LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES).

6. ANCHORAGE AND BRACING NOTES:

   MEP COMPONENT ANCHORAGE NOTE

   ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE 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 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 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 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.

   3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

   THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOTE DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

   A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE 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 A 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 AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE.

   PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

   THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED 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. REFER TO DETAILS ON SHEETS X/E301 THRU X/E303.

   MP ☐ MD ☐ PP☐ E☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #___________.

MECHANICAL SYSTEMS

1. MECHANICAL UNIT CONDUITS: TO PREVENT DAMAGE DUE TO VIBRATION, BOTH POWER AND CONTROL WIRING CONDUITS FEEDING EXTERIOR MECHANICAL UNITS SHALL BE PROVIDED AND INSTALLED WITH LIQUID-TIGHT FLEXIBLE METALLIC TYPE CONDUIT AT FINAL CONNECTION TO UNIT AND BETWEEN ROOF JACK AND DISCONNECT SWITCH WHERE DISCONNECT IS MOUNTED ON UNIT.

2. MECHANICAL CONTROLS RACEWAYS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AS REQUIRED IN ACCORD WITH SECTION 26 0533 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS. INCLUDING BUT NOT LIMITED TO: J-BOXES, RINGS, CONDUIT AND SUPPORTS (SIZE ALL AS REQUIRED).

3. EXHAUST FANS SHALL BE PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR WITH WIRING CONNECTIONS MADE BY ELECTRICAL CONTRACTOR.

4. MECHANICAL EQUIPMENT CONTROLS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRE AND CONNECTIONS (BELOW 120 VOLT) TO AND FROM ALL MECHANICAL CONTROL DEVICES. LOW VOLTAGE CONTROL WIRE SHALL BE IN CONDUIT, UNLESS OTHERWISE NOTED.

5. PULLROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER IF REQUIRED BY SERVING UTILITY COMPANY. ANY NEW OR EXISTING COMMUNICATION OR SIGNAL RACEWAY ROUTED BETWEEN BUILDINGS, SIGNAL CABINETS, AND/OR SIGNAL CLOSETS WITH FUTURE CAPACITY SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AS WELL AS THE CALLED FOR CABLE.

EXISTING BUILDINGS

1. ASBESTOS: IF DURING THE COURSE OF WORK THE CONTRACTOR OBSERVES THE EXISTENCE OF ASBESTOS, OR ASBESTOS-BEARING MATERIALS, THE CONTRACTOR SHALL IMMEDIATELY TERMINATE FURTHER WORK ON THE PROJECT AND NOTIFY THE OWNER OF THE CONDITION. THE OWNER WILL, AFTER CONSULTATION WITH THE OWNER'S REPRESENTATIVE, DETERMINE A FURTHER COURSE OF ACTION.

2. EXISTING CONDITIONS: INFORMATION SHOWN FOR EXISTING CONDITIONS WAS PRIMARILY GAINED FROM "AS BUILT" DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. BEFORE BID, VISIT SITE TO VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCE FOR VARIATIONS FROM THAT SHOWN.

4. EXISTING CONDUCTORS: INTERCEPT, EXTEND, REROUTE, REPULL CONDUCTORS, SPLICE AND OTHERWISE MODIFY EXISTING CONDUCTORS OF ALL SYSTEMS AS REQUIRED TO MAINTAIN AND/OR ESTABLISH PROPER FUNCTION AND SATISFY DESIGN INTENT.

5. EXISTING COMMUNICATIONS, DATA AND CATV AND OTHER LOW VOLTAGE TYPE SYSTEM OUTLET LOCATIONS SHOWN ON THE PLAN TO BE RELOCATED SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. MODIFY EXISTING SYSTEM AS REQUIRED FOR FULL FUNCTION (SAME AS EXISTING) IN NEW LOCATION.

6. WHERE EXISTING BUILDING CONSTRUCTION, MECHANICAL UNITS AND OTHER EQUIPMENT IS SHOWN TO BE REMOVED, DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL INSTALLATION.

7. CLOSELY COORDINATE OUTAGE AND FACILITY DISRUPTION TIME WITH ARCHITECT AND OWNER. MINIMUM 72-HOUR NOTICE IS REQUIRED BEFORE ANY CIRCUIT SHUTDOWN OR DISRUPTION OF FACILITY PERSONNEL FUNCTIONING.

GENERAL DEMOLITION PLAN NOTES

A. REFER TO ARCHITECTURAL DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.

B. EQUIPMENT SHOWN TO BE REMOVED IS SHOWN FOR REFERENCE ONLY; ANY DEMOLITION WORK SHOWN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. INFORMATION WAS OBTAINED FROM ORIGINAL BUILDING DRAWINGS AND LIMITED FIELD INVESTIGATION AND MAY NOT REPRESENT ALL ELECTRICAL DEMOLITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

C. ALL ELECTRICAL EQUIPMENT SHOWN ON DRAWING (OR REQUIRED) TO BE DEMOLISHED SHALL BE DISCONNECTED, REMOVED AND DISPOSED OF BY ELECTRICAL CONTRACTOR. NO EQUIPMENT (RACEWAYS, BOXES, CABLING, ETC.) SHALL BE ABANDONED IN PLACE AND COVERED BY NEW CONSTRUCTION.

D. ANY LIGHT SWITCHES THAT ARE NO LONGER IN USE, WHETHER SHOWN ON THE DEMOLITION PLAN OR NOT, ARE TO HAVE THE DEVICE AND WIRING REMOVED, AND A BLANK COVER PLATE INSTALLED.

E. AREAS OUTSIDE OF TENANT SPACE MUST BE IN OPERABLE CONDITION AT ALL TIMES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THEIR WORK WITH THE BUILDING SUPERVISION TO AVOID LOSS OF POWER TO THE OTHER TENANTS. IF REQUIRED, SCHEDULE ANY OUTAGES WITH OWNER PRIOR TO DE-ENERGIZATION OF ANY BRANCH CIRCUITS OR FEEDERS.

F. DISCONNECTION/REMOVAL OF EXISTING COMMUNICATIONS SYSTEMS COMPONENTS SHALL BE SCHEDULED WITH OWNER AND COORDINATED WITH THEIR VENDORS.

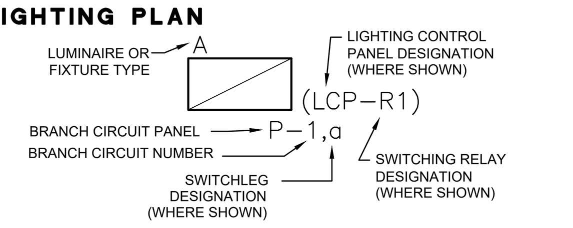
G. ALL REMOVED COMPONENTS (SPEAKERS, GRILLES, TELEPHONE INSTRUMENTS, RADIO HANDSETS, ETC.) SHALL BE SALVAGED TO THE OWNER.

H. INFORMATION SHOWN FOR LOAD DESCRIPTIONS ON EXISTING PANELS WAS GAINED FROM ORIGINAL BUILDING ELECTRICAL PLANS AND SHALL BE FIELD VERIFIED. CONFIRM LOAD ON EACH CIRCUIT OF ALL EXISTING PANELS AND PROVIDE UPDATED TYPEWRITTEN CIRCUIT DIRECTORY (IN PLASTIC SLEEVE) FOR EACH EXISTING PANELBOARD.

J. ANY LOADS REMOVED DURING DEMOLITION SHALL HAVE CONDUCTORS REMOVED BACK TO NEXT REMAINING DEVICE OR TO EXISTING PANELS. ABANDONED BREAKERS SHALL BE LABELED "SPARE".

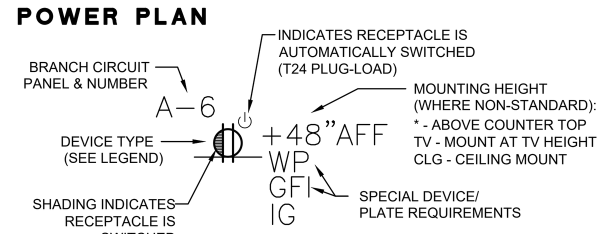
K. PROVIDE BLANK FILLER PLATES IN DEADFRONTS OF EXISTING PANELBOARDS UPON COMPLETION OF PROJECT WHERE BREAKERS HAVE BEEN REMOVED.

LIGHTING PLAN



- PROVIDE ALL BRANCH CIRCUIT WIRING FROM FIXTURES TO PANEL(S) AS DESCRIBED BY CIRCUIT NUMBERS SHOWN.
- PROVIDE ALL WIRING BETWEEN FIXTURES AND CONTROL DEVICES AS DESCRIBED IN REFERENCE NOTES AND/OR SHOWN BY SWITCHLEG DESIGNATIONS.
- HOME RUN CONDUITS SHALL BE MINIMUM 3/4"C, MAX OF (3) BRANCH CIRCUITS PER CONDUIT, #12 COPPER CONDUCTORS UNLESS OTHERWISE NOTED.
- BRANCH CIRCUITS SHALL HAVE A SEPARATE NEUTRAL.
- EXIT AND BATTERY POWERED EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO AN UNSWITCHED BRANCH CIRCUIT CONDUCTOR.

POWER PLAN



- PROVIDE ALL BRANCH CIRCUIT WIRING FROM DEVICES TO PANEL(S) PER DESIGNATIONS/CIRCUIT NUMBERS.
- HOME RUN CONDUITS SHALL BE MINIMUM 3/4"C, MAX OF (3) BRANCH CIRCUITS PER CONDUIT, #12 COPPER CONDUCTORS UNLESS OTHERWISE NOTED.
- BRANCH CIRCUIT SHALL HAVE A SEPARATE NEUTRAL.

GENERAL COMMUNICATION PLAN NOTES

A. SIGNAL AND COMMUNICATIONS SYSTEMS RACEWAYS AND BOXES: PROVIDE AND INSTALL 5" SQUARE ("RANDL, INC"; TRUE 5" SQUARE BOX) RECESSED JUNCTION BOX WITH 1-GANG RING AND (1) 1-1/4" CONDUIT STUB TO ACCESSIBLE CEILING SPACE ABOVE OR UNDER FLOOR SPACE BELOW AS APPLICABLE AT EACH WALL TELECOMMUNICATIONS (VOICE, VOICE/DATA, DATA) OUTLET AND TELEVISION OUTLET LOCATION SHOWN ON THE PLANS UNLESS OTHERWISE NOTED. PROVIDE PATHWAYS BETWEEN COMMUNICATIONS EQUIPMENT ROOM LOCATIONS AND ACCESSIBLE CEILINGS FOR ROUTING OF DATA CABLES.

   WHERE NO ACCESSIBLE CEILING EXIST; RUN CONDUIT FROM OUTLETS (FLOOR OR WALL) TO COMMUNICATIONS EQUIPMENT LOCATION.

   PROVIDE 1-1/4" CONDUIT MINIMUM FOR FLOOR BOX TELECOM AND A/V, AS SHOWN ON TELECOM PLANS.

   BEFORE CONSTRUCTION, COORDINATE AND VERIFY TELECOMMUNICATIONS OUTLET LOCATIONS WITH OWNER OR ARCHITECT.

B. PROVIDE EQUIPMENT RACKS/ CABINET, PATCH PANELS, CABLING, TERMINAL BLOCKS & COMPLETE OUTLET ASSEMBLIES.

C. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

D. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN FIRE RATED, OR SOUND RATED (STC) ASSEMBLIES SHALL BE PROVIDED WITH PUTTY PADS LISTED FOR THE APPLICATION.

E. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS. ALTERNATIVELY, A DEVICE BRACKET MAY BE USED BETWEEN STUDS WITH 4-INCH SEPARATION BETWEEN POWER AND LOW VOLTAGE BOXES.

F. AVOID UNDERGROUND TELECOM CONDUIT RUNS UNLESS NECESSARY. WHERE UNDERGROUND CONDUIT IS USED, TELECOM CABLES SHALL BE WET LISTED.

G. WHERE EQUIPMENT IS NOTED AS PROVIDED BY DISTRICT (OWNER), EC SHALL COORDINATE AT CONTRACT NOTICE TO PROCEED, ACQUIRE ALL EQUIPMENT REQUIRED FROM DISTRICT STAFF. UNLESS OTHERWISE DIRECTED BY DISTRICT STAFF ALL OWNER FURNISHED EQUIPMENT SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR.

GENERAL FIRE ALARM PLAN NOTES

1. THE FIRE ALARM SYSTEM DESIGN INCLUDED IN THE ELECTRICAL CONSTRUCTION DOCUMENTS IS A COMPLETE DESIGN FOR DSA APPROVAL.

2. PROVIDE ALL WORK AND MATERIAL REQUIRED FOR A COMPLETE AND OPERATING FIRE ALARM SYSTEM. WORK SHALL INCLUDE (BUT NOT BE LIMITED TO):
   A. EQUIPMENT PRODUCT DATA & CSFM LISTING SUBMITTAL FOR APPROVAL
   B. FIRE ALARM SHOP DRAWINGS OR STATEMENT THAT NO EXCEPTIONS ARE TAKEN WITH DSA APPROVED FIRE ALARM PLANS INCLUDED IN THE CONSTRUCTION DOCUMENTS.
   C. COMPLETE INSTALLATION AND TESTING
   D. SYSTEM TRAINING FOR OWNER'S REPRESENTATIVE
   E. WARRANTY

3. FIRE ALARM SYSTEM INSTALLATION SHALL NOT BEGIN UNTIL A PERMIT HAS BEEN OBTAINED AND ALL OF THE ABOVE HAS BEEN ACCEPTED AND SIGNED BY THE AUTHORITY(IES) HAVING JURISDICTION AND THE ARCHITECT. AFTER CONSTRUCTION, PROVIDE ACCURATE FIELD RECORD DRAWINGS TO OWNER.

4. THE FIRE ALARM SYSTEM DESIGN AND INSTALLATION SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 760, CALIFORNIA FIRE CODE (CFC) ARTICLE 907 AND 2016 NFPA 72 NATIONAL FIRE ALARM CODE AS AMENDED BY THE CALIFORNIA BUILDING CODE. ALL FIRE ALARM COMPONENTS SHALL BE CALIFORNIA STATE FIRE MARSHAL LISTED.

5. DETECTORS SHALL NOT BE INSTALLED UNTIL THE CLEANUP OF ALL TRADES IS COMPLETED.

6. BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION, THE INSTALLING CONTRACTOR SHALL FURNISH WRITTEN STATEMENT TO THE STATE FIRE MARSHAL TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED IN ACCORDANCE WITH APPROVED PLANS AND COMPLETELY TESTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPLICABLE NFPA STANDARD REQUIREMENTS.

7. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE STATE FIRE MARSHAL AND IOR.

8. THE ELECTRICAL CONSTRUCTION DOCUMENTS DEPICT THE PROPOSED FIRE ALARM SYSTEM SCOPE OF WORK. THE DESIGN INCLUDES, BUT IS NOT LIMITED TO:
   A. FULL COVERAGE AREA SMOKE AND HEAT DETECTION.
   B. ADA COMPLIANT NOTIFICATION (SPEAKERS/STROBES) THROUGHOUT.
   C. MONITORING THE FACILITY FIRE SPRINKLER SYSTEM TAMPER SWITCH(ES) (SUPERVISORY) AND FLOW SWITCH(ES) (ALARM).
   D. INTERFACE WITH MECHANICAL AIR MOVING EQUIPMENT FOR (SUPERVISORY) AND AUTOMATIC FAN SHUT DOWN UPON THE PRESENCE OF SMOKE, WHERE AIR MOVING SYSTEMS SUPPLY AIR IN EXCESS OF 2000 CFM TO ENCLOSED SPACES.
   E. INTERFACE WITH MECHANICAL SMOKE FIRE DAMPERS (SFD) AS REQUIRED.

   AS A MINIMUM, UNLESS OTHERWISE NOTED, AN ADDRESSABLE FIRE ALARM CONTROL PANEL SHALL BE PROVIDED WITH BATTERY BACKUP, INITIATION AND NOTIFICATION CIRCUITS AS REQUIRED WITH PROVISIONS FOR FUTURE EXPANSION. PROVIDE WITH FIBER OPTIC NETWORK CONNECTION VIA COMMUNICATIONS SYSTEM AS REQUIRED TO SEND SEPARATE AND DISTINCT SIGNALS (AS REQUIRED BY THE RESPONDING FIRE AUTHORITY) TO AN APPROVED CENTRAL STATION.

9. FIRE SPRINKLER RISER WATER FLOW AND / OR VALVE TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED BY THE SPRINKLER SYSTEM CONTRACTOR, AND CONNECTED TO THE FACP BY THE FIRE ALARM CONTRACTOR FOR MONITORING. COORDINATE FOR PROPER VOLTAGE.

10. PROJECT INCLUDES FULL COVERAGE DETECTION; NO DUCT SMOKE DETECTORS ARE REQUIRED. ACTIVATION OF FIRE ALARM SYSTEM SHALL CAUSE MECHANICAL UNIT FAN SHUTDOWN AND SFD CLOSURE (AS APPLICABLE). WIRING AND CONNECTIONS FROM FIRE ALARM CONTROL RELAY TO MECHANICAL EQUIPMENT SHALL BE MADE BY MECHANICAL CONTRACTOR.

11. THE FIRE ALARM SYSTEM MANUFACTURER AND INSTALLER SHALL BE HOCHIKI OR AS APPROVED BY THE DISTRICT.

GENERAL LIGHTING PLAN NOTES

A. LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.

B. COORDINATE MOUNTING HEIGHTS OF WALL AND PENDANT MOUNT LUMINAIRES WITH ARCHITECT PRIOR TO ROUGH-IN.

C. REFER TO ARCHITECT'S REFLECTED CEILING PLAN(S) FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA. VERIFY FLANGE TYPES, TRIM KITS, STEM LENGTHS, ETC. FOR ALL FIXTURES PRIOR TO SUBMITTALS.

D. CONFIRM LOCATION OF ALL DOORS SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN OF SWITCHES.

E. PROVIDE UNSWITCHED HOT LEG OF ROOM LIGHTING BRANCH CIRCUIT TO EACH BATTERY POWERED EMERGENCY LIGHT AND EXIT SIGN FOR CONTINUOUS CHARGING.

GENERAL POWER PLAN NOTES

A. U.O.N. INSTALL SEPARATE NEUTRALS FOR EACH BRANCH CIRCUIT.

B. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECT, DISTRICT REPRESENTATIVE, ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

C. CONTROLLED RECEPTACLES; INSTALLED PER REQUIREMENTS OF 2019 BUILDING ENERGY EFFICIENCY STANDARDS / EFFICIENCY STANDARDS, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 6. SECTION 130.5 (D) - ELECTRICAL POWER DISTRIBUTION SYSTEMS AS CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND / OR CONTROLLED RECEPTACLES. SHALL BE PROVIDED WITH AN APPROVED MEANS OF INCLUDING A PERMANENT AND DURABLE MARKING IDENTIFYING THE CONTROLLED RECEPTACLES OR CIRCUITS TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES OR CIRCUITS. WHERE SHOWN ON ASSOCIATED FLOOR PLANS, AND OR REQUIRED BY THE STANDARDS; A DUPLEX NOTED TO BE CONTROLLED SHALL BE 'SPLIT-WIRED', SO THE TOP OUTLET SHALL BE SWITCHED AND THE BOTTOM OUTLET SHALL BE UNSWITCHED. A DOUBLE DUPLEX (FOURPLEX) NOTED TO BE CONTROLLED SHALL HAVE ONE OF THE DUPLEX RECEPTACLES SHALL BE CONTROLLED AND THE OTHER DUPLEX RECEPTACLE SHALL BE UNSWITCHED.

LEGEND

NOTE: INTERPRET IN CONTEXT

LIGHT FIXTURES

CEILING SURFACEMOUNT
WALL SURFACEMOUNT
PENDANT MOUNT
RECESSED DOWNLIGHT
RECESSED WALLWASH
RECESSED FIXTURE
SURFACE FIXTURE
STRIP FIXTURE
TRACK LIGHT
DIRECTIONAL FLOOD
EMERGENCY FIXTURE
POLE LIGHT
POLE LIGHT- DECORATIVE
UPLIGHT- FLUSH IN GRADE
BOLLARD
TANDEM-WIRED LAMPS
UNDERCABINET LIGHT
WALL SURFACEMOUNT LINEAR TYPE
PENDANT LINEAR FIXTURE
RECESSED WALLMOUNT
WALLPACK
EXIT LIGHT- WALL
EXIT LIGHT- CEILING (ARROW INDICATES DIRECTION)
A — LETTER ADJACENT INDICATES FIXTURE TYPE
AEM — SHADED LIGHT SYMBOL & "E" OR "EM" INDICATES EMERGENCY POWERED

SWITCHES (SEE SHT. X/E203)

$ SPST
$2 DPST
$3 3-WAY
$4 4-WAY
$D DIMMER
TIMER SWITCH
$T W/THERMAL OVERLOAD
$P W/PILOT LIGHT
$K KEY OPERATED
$$ DUAL LEVEL SWITCHING
,a SWITCHLEG DESIGNATION
OS OCCUPANCY SENSOR
LR ROOM LIGHTING CONTROL RELAY FOR DISTRIBUTED LIGHTING CONTROL
RR ROOM RECEPTACLE CONTROL RELAY

POWER/COMM.

SINGLE RECEPT.
DUPLEX RECEPT.
DUPLEX- HALF SWITCHED
DOUBLE DUPLEX, HALF SWITCHED
DOUBLE DUPLEX
SPECIAL CONFIGURATION
FLOORMOUNT 208V, 1Ø RECEPT
DUPLEX- FLOOR OUTLET
GFI GROUND FAULT CIRCUIT INTERRUPT
MOUNTED ABOVE COUNTER
JUNCTION BOX
TELEPHONE OUTLET
DATA OUTLET
PHONE/DATA COMBO OUTLET
MOUNTED ABOVE COUNTER
TV TELEVISION OUTLET
SAFETY DISCONNECT
DROP CORD RECEPT
ABOVE-CLGMOUNT J-BOX
TV OUTLET-FLOORMOUNT
TELEPHONE FLOOR OUTLET
DATA FLOOR OUTLET
PHONE/DATA COMBO FLOOR OUTLET
IDF INTERMEDIATE DISTRIBUTION FRAME
MDF MAIN DISTRIBUTION FRAME
AP WIRELESS ACCESS POINT, OUTLET
FB1 RECESSED FLOOR BOX, SINGLE GANG
FB2 RECESSED FLOOR BOX, DOUBLE GANG
FB4 RECESSED FLOOR BOX, FOUR GANG

MISCELLANEOUS

MOTOR
THERMOSTAT
CIRCUIT BREAKER
FUSIBLE SWITCH
GROUND
Ø PHASE
CLOCK
CLOCK/SPEAKER COMBINATION
WALL MOUNTED CLOCK
PUSHBUTTON
FLUSHMOUNT PANEL
SURFACEMOUNT PANEL
FLUSHMOUNT CABINET
SURFACEMOUNT CABINET
DM DAMPER MOTOR
H HUMIDISTAT
M MAGNETIC CONTACTOR
COMBINATION STARTER

CONDUIT/WIRE

NEW
UNDERGROUND
NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
ISOLATED GROUND
E EXISTING TO REMAIN
(E) POWER HOMERUN
WIRE LINE- CONTINUES
CONDUIT STUB (W/MARKER)
VERTICAL CONDUIT RUN
CONDUIT SEAL
FLEXIBLE CONNECTION
LV LOW VOLTAGE
SURFACEMOUNT RACEWAY
INDICATES LINE CONTINUES
CORD W/PLUG

FIRE ALARM (SEE SHT. X/E401)

FIRE ALARM CONTROL PANEL
RPS REMOTE POWER SUPPLY
H HORN- AUDIBLE DEVICE
V VISUAL DEVICE
VC VISUAL - DEVICE-CEILING MOUNTED
AV AUDIBLE (HORN) / VISUAL (STROBE)
AVC AUDIBLE/VISUAL-CEILING MOUNTED
SV AUDIBLE (SPEAKER) / VISUAL (STROBE)
SVC AUDIBLE/VISUAL-CEILING MOUNTED
S AUDIBLE (SPEAKER)
F FLOW SWITCH
T TAMPER SWITCH
P MANUAL PULL STATION
PTP PULL STATION TAMPER PROOF (RESISTANT)
SD SMOKE DETECTOR
SDD DUCT SMOKE DETECTOR
SDCO SMOKE/CO DETECTOR
H HEAT DETECTOR
B BELL
END OF LINE RESISTOR
C CHIME

SOUND

S SPEAKER- CLG FLUSHMOUNT
S SPEAKER- WALLMOUNT
SWP WEATHERPROOF SPEAKER
M MICROPHONE INPUT
A AUXILIARY INPUT
HS HEADSET OUTLET
V VOLUME CONTROL
VS SPEAKER- CLG FLUSHMOUNT VANDAL-RESISTANT
CLOCK/SPEAKER WALLMOUNT SEMI-FLUSH

CONVENTIONS

X — NUMBERED SHEET NOTES: REFERS TO NOTES ON SAME SHEET AS REFERENCE

1/- — DETAIL REFERENCE:
-DETAIL DESIGNATION
-SHEET NUMBER REFERENCE

3103 — FEEDER SCHEDULE DESIGNATION (EXAMPLE: 3103 = 310 AMPERE, 600V, 3 CURRENT CARRYING CONDUCTORS, PREFIXES: 'M' INDICATES MEDIUM VOLTAGE, 'CO14' INDICATES CONDUIT ONLY, QUANTITY (1) AND SIZE (4"))

Y/X — MECHANICAL EQUIPMENT DESIGNATION:
Y = EQUIPMENT TYPE
X = EQUIPMENT NUMBER
REFER TO MECHANICAL SHEETS FOR COORDINATION.

ABBREVIATIONS

A	AMPERE
AB	AMP BREAKER
ABAND	ABANDONED
ABV	ABOVE
AC	ALTERNATING CURRENT
AC-#	AIR CONDITIONER
ADJ	ADJACENT
AF	AMP FUSE, AMP FRAME
AFF	ABOVE FINISH FLOOR
AFG	BOVE FINISH GRADE
AIC	AMPERES INTERRUPTING CAPACITY
Al	ALUMINUM
AS	AMP SWITCH RATING
ATS	AUTOMATIC TIME SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIBLE/AUDIO VISUAL
AWG	AMERICAN WIRE GAGE
BFG	BELOW FINISH GRADE
BIL	BASIC IMPULSE LEVEL
BLDG	BUILDING
C	CONDUIT
-C-	CATV CONDUIT
CAB'T	CABINET
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER, CODE BLUE
CBC	CA. BUILDING CODE
CEC	CA. ELECTRICAL CODE CA. ENERGY COMMISSION
CF	COMPACT FLUORESCENT
CFC	CALIFORNIA FIRE CODE
CLG	CEILING
CL	CENTER LINE
CKT	CIRCUIT
CNT'R	CONTRACTOR
C.O.	CONDUIT ONLY (W/PULLROPE)
COND	CONDUIT, CONDUCTOR
CR	CRITICAL BRANCH
CSFM	CALIFORNIA SFM
CT	CURRENT TRANSFORMER
Cu	COPPER
CU-#	CONDENSING UNIT
(D)	DEMOLISH, DEMO (REMOVE)
D	DEPTH
DC	DIRECT CURRENT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DPST	DOUBLE POLE SINGLE THROW
DSA	DIVISION of the STATE ARCHITECT
DW	DISHWASHER
EM	EMERGENCY
(E)	EXISTING
EA	EACH
EB	ELECTRONIC BALLAST
EC	ELECTRICAL CONTRACTOR
EC-#	EVAPORATIVE COOLER
EF-#	EXHAUST FAN
EL	EVENING LIGHT
ELEC	ELECTRICAL
EM	EMERG BATTERY BACKUP EMERGENCY BALLAST
EMERG	EMERGENCY
EOL	END OF LINE
EQUIP'T	EQUIPMENT
ES	ENERGY SAVING
(EXN)	(E) IN (N) LOCATION
(EXR)	(E) TO BE (R)
EXT	EXTERIOR
F	FLUORESCENT
(F)	FUTURE
F-#	FURNACE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FAT	FIRE ALARM TERMINAL
FAU	FORCED AIR UNIT
FBO	FURNISHED BY OTHERS
FC-#	FAN COIL
FLA	FULL LOAD AMPS
FLR	FLOOR
FLUOR	FLUORESCENT
FS	FUSIBLE SWITCH
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUNDING CONDUCTOR
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRS	GALVANIZED RIGID STEEL
GWS	GANG WITH SWITCH
H	HEIGHT, HIGH
HACR	HEATING, AC & REFRIG
HID	HIGH INTENSITY DISCHARGE
HO	HIGH OUTPUT
HOA	HAND-OFF-AUTO
hp	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
IC	INTERCOM
ID	IDENTIFICATION
IDF	INTERMEDIATE DISTRIBUTION FRAME
IF	INSIDE FROST
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
k	QUANTITY 1000
kVA	KILOVOLTAMPS
kW	KILOWATT
LC	LIGHTING CONTACTOR
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LS	LIFE SAFETY BRANCH
LT	LIGHT
LTG	LIGHTING
LV	LOW VOLTAGE
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CKT AMPS
MCB	MAIN CIRCUIT BREAKER
MCTB	MAIN CATV TERMINAL BOARD
MCTC	MAIN CATV TERMINAL CABINET
MDF	MAIN DISTRIBUTION FRAME
MECH	MECHANICAL
MFR	MANUFACTURER
MFS	MAIN FUSIBLE SWITCH
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OCP
MSB	MAIN SWITCHBOARD
MT	MOUNT
MT HT	MOUNTING HEIGHT
MTS	MANUAL TRANSFER SWITCH
MTTB	MAIN TELEPHONE TERMINAL BOARD
MTTC	MAIN TELEPHONE TERMINAL CABINET
MW	MICROWAVE
N	NEUTRAL (GROUNDED CONDUCTOR)
(N)	NEW
N3R	NEMA 3R
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NAT'L ELEC MANUFACTURER'S ASSOC
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NPF	NORMAL POWER FACTOR
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVERCURRENT PROTECTION
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OSHPD	OFFICE of STATEWIDE HEALTH PLANNING & DEVELOPMENT
OVLD	OVERLOAD
P	POLE
PA	PUBLIC ADDRESS
PB	PULLBOX
PC	PULL CHAIN
PC	PHOTOCELL
PC	PLUMBING CONTRACTOR
ph	PHASE
PNL	PANEL
POC	POINT OF CONNECTION
-PP-	POWER PRIMARY
-PS-	POWER SECONDARY
PV	PHOTOVOLTAIC
(R)	RELOCATE(D)
RECEPT	RECEPTACLE
REF	REFRIGERATOR
REQ'D	REQUIRED
RLA	RATED LOAD AMPS
RM	ROOM
RMC	RIGID METAL CONDUIT
RMV	REMOVE
RPLC	REPLACE
RS	RAPID START
SC	SIGNAL CABINET
SCC	SHORT CKT CURRENT
SFM	STATE FIRE MARSHAL
SHT	SHEET
SL	SLIMLINE, SWITCH LEG
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
STR'G	STORAGE
SURF	SURFACE
SVC	SERVICE
SW	SWITCH
T	TRANSFORMER, TERMINAL
-T-	TELEPHONE CONDUIT
(TBR)	TO BE REMOVED
TC	TIME CLOCK
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY
TS	TIME SWITCH
TSO	TIME SWITCH OVERRIDE
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TTC	TELEPHONE TERMINAL CABINET
TX	TRANSFORMER
TYP	TYPICAL
TYP SIM	TYPICAL SIMILAR
UC	UNDERCABINET, UNDERCOUNTER
UG	UNDERGROUND
UGPS	UNDERGROUND PULL SECTION
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
USA	UG SVC ALERT 800-642-2444
V	VOLT
VA	VOLT AMPERES
VAC	VOLT ALTERNATING CURRENT
VHO	VERY HIGH OUTPUT
VOLT	VOLTAGE
VR	VANDAL-RESISTANT
W	WIDTH, WATT, WIRE
WH-#	WATER HEATER
WP	WEATHERPROOF (NEMA 3R)
XFMR	TRANSFORMER
+48	INDICATES MOUNTING HEIGHT AFF

DSA File No.: 15-95

DSA Application No.: 03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

General Notes

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Project

ELECTRICAL SYMBOLS
LEGEND AND GENERAL NOTES

Drawing

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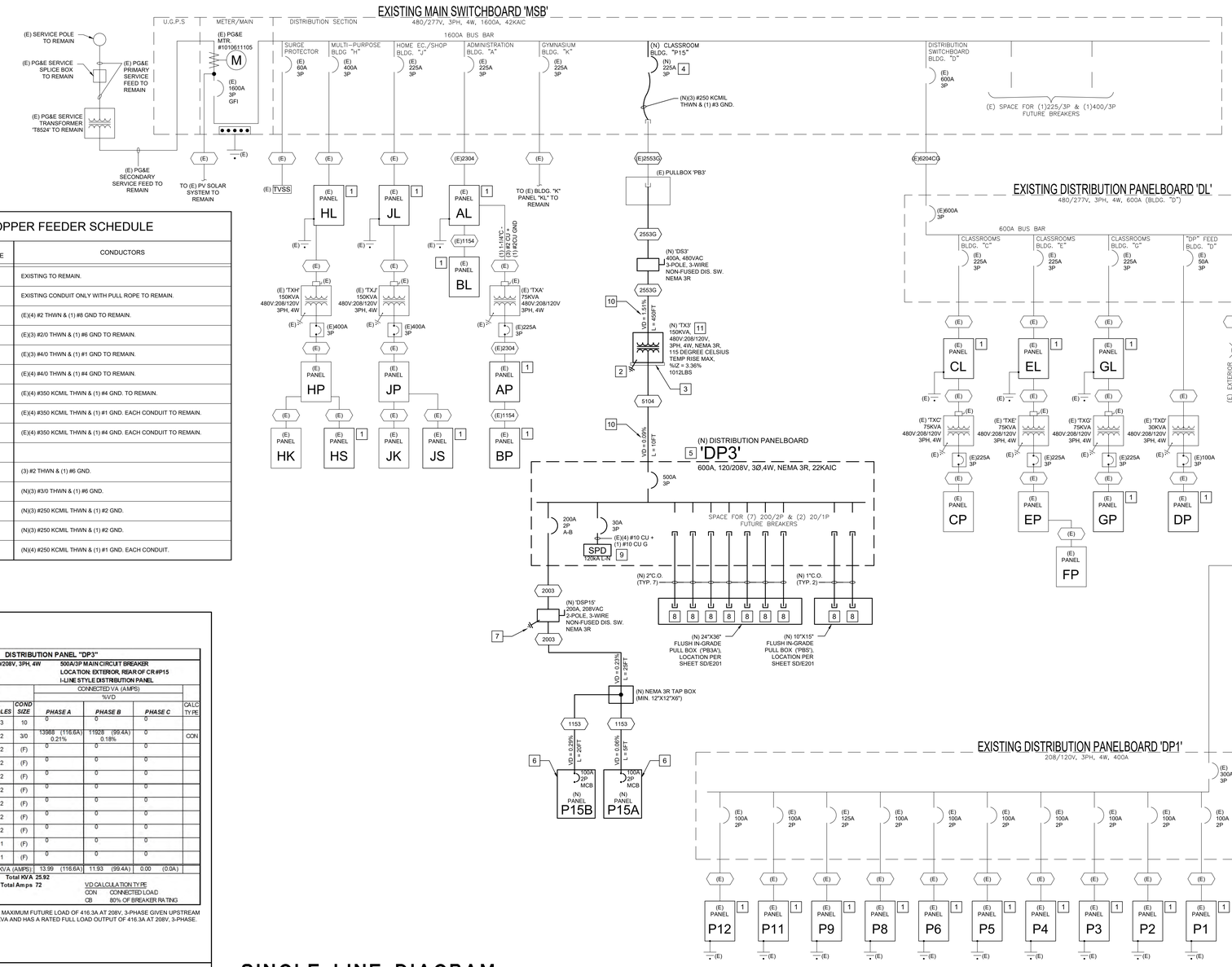
No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E101
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	



(E) "MSB" LOAD-CALC:

(E) "MSB" LOAD: PG&E 12-MONTH MAX DEMAND (8/11/22 THRU 9/11/22)	= 300.16KW = 375.20KVA (@0.8PF)
ADDITIONAL 25% OF "MSB" DEMAND (PER CEC 220.87(2))	= 469.00KVA
(N) LOAD ADDED (PORTABLE 'P15')	+ 25.92KVA
(E) MSB' NEW CALCULATED LOAD	= 494.92KVA 595.3A @ 277/480V, 3PH

SINCE THE CALCULATED LOAD ON "MSB" AFTER THE ADDITION OF LOAD DOES NOT EXCEED THE RATING OF THE SERVICE SWITCHBOARD AND THE SERVICE FEEDER AMPACITY (1600A), THE LOAD ADDITION IS FOUND ACCEPTABLE.

EXISTING ELECTRICAL SERVICE SWITCHBOARD HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITION AS SHOWN ON THESE PLANS.

COPPER FEEDER SCHEDULE

FEEDER NO.	RACEWAY QUANTITY/SIZE	CONDUCTORS
(E)	EXISTING	EXISTING TO REMAIN.
(E)C013	(E)(1) 3"C	EXISTING CONDUIT ONLY WITH PULL ROPE TO REMAIN.
(E)1154	(E)(1) 1-1/2"C	(E)(4) #2 THWN & (1) #8 GND TO REMAIN.
(E)1753C	(E)(1) 3"C	(E)(3) #2/0 THWN & (1) #6 GND TO REMAIN.
(E)2303C	(E)(1) 3"C	(E)(3) #4/0 THWN & (1) #1 GND TO REMAIN.
(E)2304	(E)(1) 2-1/2"C	(E)(4) #4/0 THWN & (1) #4 GND TO REMAIN.
(E)3104C	(E)(1) 3-1/2"C	(E)(4) #350 KCMIL THWN & (1) #4 GND. TO REMAIN.
(E)6204C	(E)(2) 3"C	(E)(4) #350 KCMIL THWN & (1) #1 GND. EACH CONDUIT TO REMAIN.
(E)6204CG	(E)(2) 3-1/2"C	(E)(4) #350 KCMIL THWN & (1) #4 GND. EACH CONDUIT TO REMAIN.
1153	(1) 1-1/2"C	(3) #2 THWN & (1) #6 GND.
2003	(N)(1) 2"C	(N)(3) #3/0 THWN & (1) #6 GND.
(E)2553G	(E)(1) 3"C	(N)(3) #250 KCMIL THWN & (1) #2 GND.
2553G	(N)(1) 3"C	(N)(3) #250 KCMIL THWN & (1) #2 GND.
5104	(N)(2) 3"C	(N)(4) #250 KCMIL THWN & (1) #1 GND. EACH CONDUIT.

DISTRIBUTION PANEL "DP3"

BUS RATING: 600A, 120/208V, 3PH, 4W — 500A/3P MAIN CIRCUIT BREAKER
NEMA 3R — LOCATION: EXTERIOR, REAR OF CR #P15
AIC RATING: 22KAIC — I-LINE STYLE DISTRIBUTION PANEL

DISTRIBUTION					CONNECTED VA (AMPS) %VD			
DIST (FT)	PANEL/LOAD	TRIP	POLES	COND SIZE	PHASE A	PHASE B	PHASE C	CALC TYPE
5	SPD	30	3	10	0	0	0	
25	PORTABLE 'P15'	200	2	3/0	13988 (116.6A) 0.21%	11928 (99.4A) 0.18%	0	CON
(F)	SPACE (200A/2P FRAME)	(F)	2	(F)	0	0	0	
(F)	SPACE (200A/2P FRAME)	(F)	2	(F)	0	0	0	
(F)	SPACE (200A/2P FRAME)	(F)	2	(F)	0	0	0	
(F)	SPACE (200A/2P FRAME)	(F)	2	(F)	0	0	0	
(F)	SPACE (200A/2P FRAME)	(F)	2	(F)	0	0	0	
(F)	SPACE (200A/2P FRAME)	(F)	2	(F)	0	0	0	
(F)	SPACE (200A/2P FRAME)	(F)	2	(F)	0	0	0	
(F)	SPACE (20A/1P FRAME)	(F)	1	(F)	0	0	0	
(F)	SPACE (20A/1P FRAME)	(F)	1	(F)	0	0	0	
				KVA (AMPS):	13.99 (116.6A)	11.93 (99.4A)	0.00 (0.0A)	

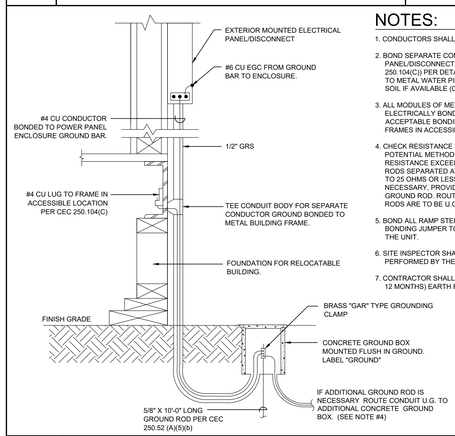
Total KVA 25.92
Total Amps 72

VD CALCULATION TYPE
CON CONNECTED LOAD
CB 80% OF BREAKER RATING

NOTE: PANEL 'DP3' CAN SUPPORT A MAXIMUM FUTURE LOAD OF 416.3A AT 208V, 3-PHASE GIVEN UPSTREAM TRANSFORMER 'TX3' IS RATED 150KVA AND HAS A RATED FULL LOAD OUTPUT OF 416.3A AT 208V, 3-PHASE.

5 PANEL 'DP3 SCHEDULE'

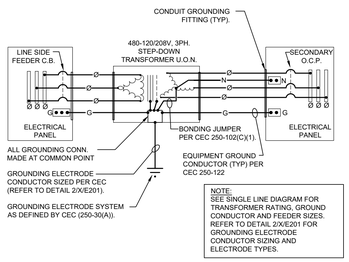
SINGLE LINE DIAGRAM



NOTES:

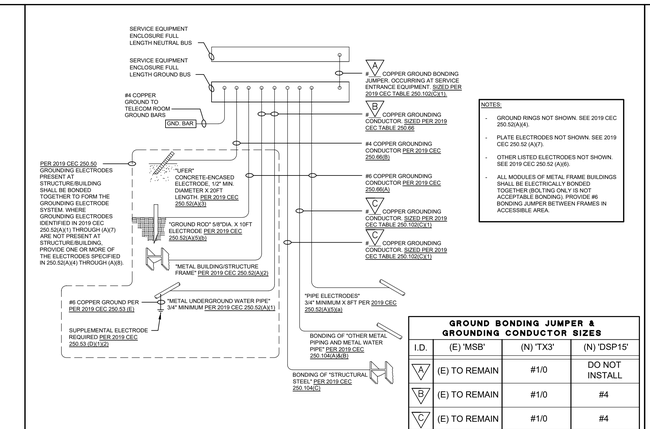
1. CONDUCTORS SHALL BE #4 COPPER.
2. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO EXTERIOR PANEL/DISCONNECT AND TO METAL BUILDING FRAME (CEC 250.104(C)) PER DETAIL SHOWN. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FEET INTO THE SOIL IF AVAILABLE (CEC 250.52(A)(1)).
3. ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). PROVIDE #4 BONDING JUMPER BETWEEN FRAMES IN ACCESSIBLE AREA.
4. CHECK RESISTANCE TO GROUND PER THE 3 POINT FALL OF POTENTIAL METHOD AS DESCRIBED IN IEEE STD 81-2012. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. IF ADDITIONAL GROUND RODS ARE NECESSARY, PROVIDE ADDITIONAL CONCRETE BOX FOR EACH GROUND ROD. ROUTING OF CONDUCTORS BETWEEN GROUND RODS ARE TO BE U.G.
5. BOND ALL RAMP STEEL RAILINGS WITH A #4 COPPER SOLID BONDING JUMPER TO THE ELEC. PANEL OR THE STEEL FRAME OF THE UNIT.
6. SITE INSPECTOR SHALL WITNESS THE GROUNDING TEST PERFORMED BY THE E.C.
7. CONTRACTOR SHALL UTILIZE A RECENTLY CALIBRATED (LESS THAN 12 MONTHS) EARTH RESISTANCE METER.

4 RELOCATABLE BUILDING GROUNDING/BONDING
SCALE:



NOTE:
SEE SINGLE LINE DIAGRAM FOR TRANSFORMER RATING, GROUND CONDUCTOR AND FEEDER SIZES. REFER TO DETAIL 2/XE201 FOR GROUNDING ELECTRODE CONDUCTOR SIZING AND ELECTRODE TYPES.

3 TYP. TRANSFORMER GROUNDING DETAIL



NOTE:
- GROUND RINGS NOT SHOWN. SEE 2019 CEC 250.50(A).
- PLATE ELECTRODES NOT SHOWN. SEE 2019 CEC 250.52 (A)(7).
- OTHER LISTED ELECTRODES NOT SHOWN. SEE 2019 CEC 250.52 (A)(6).
- ALL MODULES OF METAL FRAME BUILDINGS SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). PROVIDE #6 BONDING JUMPER BETWEEN FRAMES IN ACCESSIBLE AREA.

GROUND BONDING JUMPER & GROUNDING CONDUCTOR SIZES

I.D.	(E) 'MSB'	(N) 'TX3'	(N) 'DSP15'
A	(E) TO REMAIN	#1/0	DO NOT INSTALL
B	(E) TO REMAIN	#1/0	#4
C	(E) TO REMAIN	#1/0	#4

2 TYPICAL GROUND / BOND DETAIL

WARNING
ARC FLASH HAZARD

LINE SIDE of MAIN	FLASH PROTECTION BOUNDARY:	40 inches
	HAZARD RISK CATEGORY:	CLASS 2
	INCIDENT ENERGY RANGE:	4 - 8 cal/cm²
LOAD SIDE of MAIN	FLASH PROTECTION BOUNDARY:	20 inches
	HAZARD RISK CATEGORY:	CLASS 0
	INCIDENT ENERGY RANGE:	0 - 2 cal/cm²

PSE TQS#: #####.# — Date Issued: April 2004 — Study Rev. :0

LOCATION: BUS NAME — PROTECTIVE DEVICE: UPSTREAM DEVICE

NOTE:
IN ACCORDANCE WITH CEC 110.16. PROVIDE ARC FLASH PROTECTION WARNING LABELS ON EACH SWITCHBOARD, PANELBOARD, AND TRANSFORMER. LABELS SHALL BE PER ANSI Z535.4 GUIDELINES PER THE ABOVE EXAMPLE.

1 TYPICAL ARC FLASH SIGNAGE

DSA File No.:
15-95

DSA Application No.:
03-122615

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APP: 03-122615 INC:
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DATE: 07/20/2023
Agency Approval

☐ SHEET REFERENCE NOTES

1. SCOPE INVOLVES MODIFICATION OF (E) PANEL LOADS. REFER TO ELECTRICAL FLOOR PLAN SHEETS FOR FURTHER INFORMATION.
2. PROVIDE GROUNDING ELECTRODE SYSTEM AND GROUND CONNECTION PER CEC 250 (TYP). REFER TO DETAIL 3/X/E201 FOR TYPICAL TRANSFORMER GROUNDING DETAIL.
3. PROVIDE 2" HIGH CONCRETE EQUIPMENT HOUSEKEEPING PAD. REFER TO DETAIL 4/X/E301. EXTEND PAD A MINIMUM OF 6" BEYOND THE OUTLINE OF THE EQUIPMENT. COORDINATE THE PAD SIZE WITH THE SUPPLIED EQUIPMENT.
4. PROVIDE (N) CIRCUIT BREAKER IN (E) SERVICE SWITCHBOARD DISTRIBUTION SECTION. MATCH SWITCHBOARD MAKE AND A.I.C. RATING.
5. PROVIDE (N) NEMA 3R DISTRIBUTION PANELBOARD. SEE PANEL SCHEDULE FOR ADDITIONAL INFORMATION. BASIS OF DESIGN SQUARE D I-LINE STYLE PANEL; MOUNT TO OUTDOOR SUPPORT FRAME PER DETAIL 5 SHEET X/E301.
6. (N) PROJECT BUILDING ELECTRICAL PANEL PROVIDED BY BUILDING MANUFACTURER.
7. PROVIDE GROUNDING AT (N) PROJECT BUILDING PER RELOCATABLE BUILDING GROUNDING DETAIL #4 ON THIS SHEET, IN ACCORDANCE TO CEC 250.32(A) & (B)(1).
8. (N) CONDUIT STUB FOR FUTURE USE--LOCATION PER SITE PLAN SHEET SD/E201.
9. (N) FACTORY INSTALLED, INTEGRAL SURGE PROTECTION DEVICE (BASIS OF DESIGN SQUARE D EBA SERIES). PROVIDE RATING OF DEVICE AS INDICATED.
10. VOLTAGE DROP SHOWN FOR FEEDERS UPSTREAM OF (N) "DP3" ASSUME, CONSERVATIVELY, A FUTURE 100% LOADED 150KVA TRANSFORMER (180.4A AT 480VAC 3PH, 416.3A AT 208VAC 3PH) IN ORDER TO DETERMINE WORSE CASE VOLTAGE DROP FOR FUTURE NEEDS. THE ACTUAL LOAD ON THE TRANSFORMER AS A RESULT OF THIS PROJECT IS AS SHOWN IN THE "DP3" PANEL SCHEDULE ON THIS SHEET.
11. PROVIDE (N) STEP-DOWN TRANSFORMER, BOD SQUARE D #EXN150T3HF WITH WEATHERSHIELD FOR NEMA 3R RATING.

SINGLE LINE DIAGRAM NOTES

A. ALL CONDUCTORS SHALL BE COPPER WITH TYPE [THHN/THWN] INSULATION UNLESS OTHERWISE NOTED.

B. ALL SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL HAVE TERMINATION PROVISIONS LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS, AND ALL FEEDER CONDUCTORS, AND CONDUITS, ARE SIZE BASED ON USE OF 75 DEG. C COPPER WIRES TYPE THWN/THHN.

C. DESIGN SHOWN IS BASED ON SQUARE D PRODUCT. ENGINEER-APPROVED EQUAL ALTERNATE PRODUCT WILL BE ACCEPTABLE.

D. ALL EQUIPMENT SHALL HAVE AN APPROVED TESTING LABORATORY LABEL ATTACHED [UL, CSA, ETC.] (CEC 110-2).

E. ALL EQUIPMENT SHALL HAVE ARC FLASH WARNING LABELS PER DETAIL 1 ON THIS SHEET.

F. REFER TO PANEL SCHEDULES FOR INDIVIDUAL BRANCH CIRCUIT VOLTAGE DROP AND/OR SINGLE LINE DIAGRAM FOR FEEDER VOLTAGE DROP CALCULATIONS.

G. BRANCH CIRCUIT/FEEDER DISTANCE IS SHOWN FOR REFERENCE ONLY AS THE BASIS OF VOLTAGE DROP CALCULATIONS. CONDUCTOR DISTANCE AS INDICATED SHALL NOT BE USED FOR BIDDING/CONSTRUCTION PURPOSES. SHOULD THE FEEDER DISTANCE EXCEED THE LENGTH NOTED PER INSTALLATION CONDITIONS, NOTIFY THE ENGINEER OF RECORD.

General Notes

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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26
Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

SINGLE LINE DIAGRAM
Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
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LICENSED ARCHITECT RODNEY K. FERGUSON No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

Designed By: PM
Drawn By: KH
Checked By: JT
Reviewed By: JT
Scale: AS NOTED
Project Number: 2228
Date: 03/22/2023

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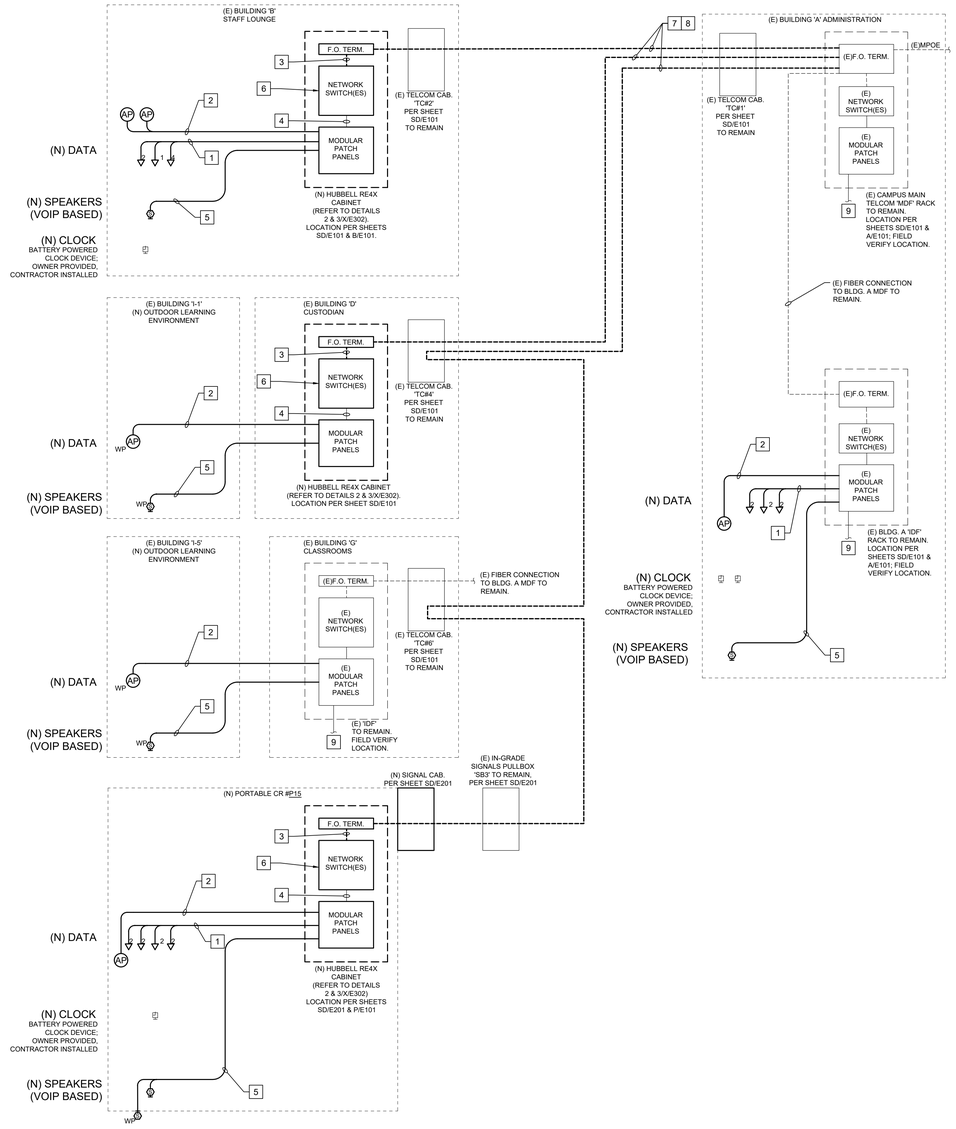
X/E201



PARTIAL CAMPUS COMMUNICATIONS RISER DIAGRAM

COMMUNICATIONS LEGEND

WP = (N) WEATHER PROOF (WP) VOIP ENABLED OUTDOOR SPEAKER & ENCLOSURE DEVICE (PROVIDED BY DISTRICT, INSTALLED BY EC). EC SHALL PROVIDE (N) (1) CAT6 CABLE PER DEVICE TERMINATED IN ACCESSIBLE CEILING SPACE (INSIDE WALL) WITHIN 5'-0" OF DEVICE, PROVIDE MIN. 10' SERVICE LOOP. ALL MODULAR JACKS, CABLE, AND PATCH CABLES SHALL BE BLUE. EC SHALL COORDINATE WITH DISTRICT REPRESENTATIVE FOR FINISHED MOUNTING HEIGHT.

= (N) VOIP ENABLED INDOOR SPEAKER DEVICE & ENCLOSURE DEVICE (PROVIDED BY DISTRICT, INSTALLED BY EC). EC SHALL PROVIDE (N) (1) CAT6 CABLE TERMINATED IN BISCUIT IN ACCESSIBLE CEILING SPACE PER DEVICE WITH MINIMUM 10' SERVICE LOOP. ALL MODULAR JACKS, CABLE, AND PATCH CABLES SHALL BE BLUE. EC SHALL COORDINATE WITH DISTRICT REPRESENTATIVE FOR FINISHED MOUNTING HEIGHT.

WP AP = EXTERIOR WIRELESS ACCESS POINT (PROVIDED BY DISTRICT, INSTALLED BY EC). PROVIDE (N) (2) CAT6A CABLES EACH TERMINATED IN 2-PORT BISCUIT IN EXTERIOR WALL JUNCTION BOX PER DETAIL 5/X/E302. ALL CAT6A MODULAR JACKS, CABLE, AND PATCH CABLES SHALL BE WHITE.

AP = INTERIOR WIRELESS ACCESS POINT (PROVIDED BY DISTRICT, INSTALLED BY EC). PROVIDE (N) (2) CAT6A CABLES EACH TERMINATED IN 2-PORT BISCUIT IN ACCESSIBLE CEILING. ALL CAT6A MODULAR JACKS, CABLE, AND PATCH CABLES SHALL BE WHITE.

= DATA OUTLET AT LOCATION SHOWN IN PLAN. 'H' = NUMBER OF CAT6 DATA DROPS. ALL CAT6 MODULAR JACKS, CABLE, AND PATCH CABLES SHALL BE BLUE.

= (N) BATTERY POWERED WALL MOUNTED CLOCK. COORDINATE WITH DISTRICT REPRESENTATIVE FOR MOUNTING HEIGHT. CLOCKS ARE OWNER PROVIDED, CONTRACTOR INSTALLED.

GENERAL NOTES

A. CATEGORY CABLING, MODULAR JACKS, AND PATCH CABLES SHALL MATCH COLOR OF (N) CABLE PLANT AS FOLLOWS:
   - CAT6 = BLUE IN COLOR.
   - CAT6A = WHITE IN COLOR.

B. CAT6 AND CAT6A CABLES, TOTAL LENGTH FROM IDF TO ENDPOINT SHALL NOT BE MORE THAN 295'-0". CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ANY LENGTHS IN EXCESS OF 295'-0".

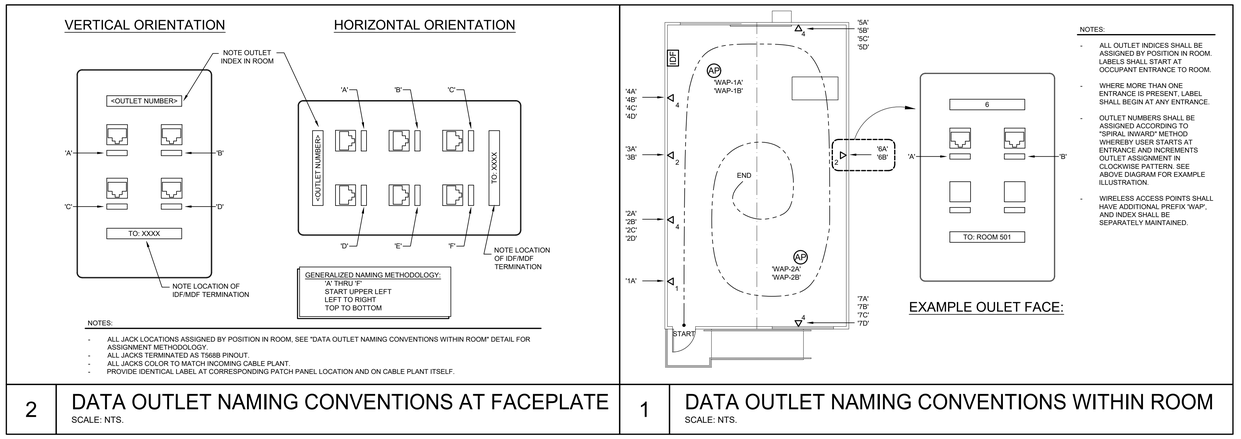
C. CAT6 AND CAT6A CABLES SHOWN AS ROUTED UNDERGROUND BETWEEN BUILDINGS SHALL BE OUTDOOR PLANT RATED AS SHOWN.

D. EC SHALL PROVIDE 10' SERVICE LOOP AT EACH (E) AND (N) PULL-BOX FOR CABLE SHOWN AS (N).

E. DISTRICT TO PROVIDE VOIP (VOICE OVER INTERNET PROTOCOL) PHONE HAND SETS AS REQUIRED.

F. CABLING TYPES SHALL BE SUITABLE AND RATED FOR THE APPLICATION INSTALLED (PLENUM, UNDERGROUND, ETC.).

G. ALL FIBER OPTIC CABLES SHALL BE FUSION SPLICED TO PRE-TERMINATED/POLISHED PIG-TAILS IN APPROVED FIBER SPLICE ENCLOSURES AND SPLICE TRAYS.



2 DATA OUTLET NAMING CONVENTIONS AT FACEPLATE
SCALE: NTS.

1 DATA OUTLET NAMING CONVENTIONS WITHIN ROOM
SCALE: NTS.

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
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DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

1. (N) CAT6 TO EACH DATA OUTLET (QUANTITY PER RISER; BLUE JACKET).
2. (N)(2) CAT6A AT EACH WAP (WHITE JACKET).
3. (N) F.O. JUMPERS - TO MATCH CABLE PLANT (2M MAX).
4. (N) CAT 6/6A JUMPERS - TO MACH CABLE PLANT (2M MAX).
5. (N)(1) CAT6 CABLE PER EACH SPEAKER DEVICE TERMINATED IN BISCUIT IN 4S BACKBOX ON WALL. USE WEATHERPROOF BOXES AND METHODS FOR EXTERIOR SPEAKERS. SPEAKER DEVICE SHALL BE PROVIDED BY DISTRICT AND INSTALLED BY CONTRACTOR. EC SHALL TERMINATE AND TEST BISCUIT IN PREPARATION FOR (N) DEVICE.
6. CONTRACTOR SHALL COORDINATE WITH DISTRICT IT STAFF FOR INSTALLATION AND SCHEDULING OF NEW NETWORK SWITCH EQUIPMENT TO BE PROVIDED BY THE OWNER'S IT DEPARTMENT.
7. (N) HYBRID FIBER OPTIC CABLE, WITH 6-STRANDS SINGLE-MODE (OS2) AND 6-STRANDS MULTI-MODE (OM4, 50UM) IN A SINGLE JACKET (AQUA IN COLOR) AND PLACED IN CONDUIT (SIZES/QUANTITIES PER SITE PLAN). ALL STRANDS SHALL BE TERMINATED IN FIBER SPLICE ENCLOSURES AT EACH END OF THE CABLE INSTALLATION. ALL CABLING BETWEEN EXISTING CAMPUS MDF AND BUILDING IDF SHALL BE UNDERGROUND/WET LOCATION LISTED. VERIFY CABLE TYPES WITH DISTRICT PRIOR TO SUBMITTALS.
8. REFER TO ELECTRICAL SITE PLANS ON SHEET SD/E101 AND/OR SD/E201 FOR ROUTING AND EXISTING/NEW PATHWAYS TO BE UTILIZED.
9. (E) CATEGORY CABLING SERVING (E) BUILDING DATA DEVICES TO REMAIN.

General Notes

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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26

Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

COMMUNICATIONS RISER DIAGRAM

Drawing

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LICENSED ARCHITECT RODNEY K. FERGUSON No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: PM
Drawn By: KH
Checked By: JT
Reviewed By: JT

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Scale: AS NOTED
Project Number: 2228
Date: 03/22/2023

X/E202

SITE - LUMINAIRE SCHEDULE

BLDG.	TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	TOTAL INPUT WATTS (W)	LAMP TYPE	NOMINAL LUMEN OUTPUT (L)	LAMP COLOR TEMP (K)	MOUNTING TYPE	CRI	DESCRIPTION	REMARKS
SITE	S1		GARDCO (BY SIGNIFY)	104L-16L-700-NW-G1-4-UNV-PCB-IMIR12- CE50-BZ	120/277	37	LED	3535	40000	SURFACE, WALL DETAIL 1/X/E/303	80	18.25"W X 9"D X 7.25"H LED WALL SCONCE, ALUM. HOUSING, BRONZE. TYPE IV DIST., BUG RATING 1-0-1. PHOTOCELL & MOTION SENSOR (DIMS TO 50% BETWEEN 9PM-6AM WITH 5 MIN. DELAY)	
SITE	S1EM		GARDCO (BY SIGNIFY)	104L-16L-650-NW-G1-4-EBPC-UNV-PCB-IMIR12-CE50-BZ	120/277	37	LED	3535	40000	SURFACE, WALL DETAIL 1/X/E/303	80	SAME AS TYPE S1 EXCEPT WITH INTERGRAL 90 MINUTE BATTERY PACK	
SITE	S2E	DUAL HEAD	LITHONIA LIGHTING	RSX1 LED-P3-40K-R4-MVOLT-RPA (2@90)-PIRHN-DDBXD	120/277	218	LED	14206/EA	3000	CONCRETE BASE & POLE DETAIL 6/X/E/303	N/A	DUAL HEAD, AT 90 DEGREE, LED AREA LUMINAIRE W/ TYPE 4 WIDE DIST., ROUND POLE MNTNG, STANDALONE, BI LEVEL MOTION/AMBIENT SENSOR AND DARK BRONZE FINISH	PROVIDE 20FT 5" ROUND STARIGHT STEL POLE. BUG RATING: 202

NOTES
• LUMINAIRE SUPPLIED VOLTAGE TO BE VERIFIED BY ELECTRICAL CONTRACTOR.
• WHERE NOT SPECIFIED; FINISHES TO BE VERIFIED WITH ARCHITECT.

MISC. - LUMINAIRE SCHEDULE

BLDG.	TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	TOTAL INPUT WATTS (W)	LAMP TYPE	NOMINAL LUMEN OUTPUT (L)	LAMP COLOR TEMP (K)	MOUNTING TYPE	CRI	DESCRIPTION	REMARKS
P15	INV 250		IOTA EMERGENCY LIGHTING	IIS 250 HE DR	120/277	310	N/A	N/A	N/A	WALL	N/A	EMERGENCY LIGHTING POWER INVERTER WITH 90 MINUTE OPERATION. 250 WATT OUTPUT, 120V INPUT, 120V OUTPUT, 19"Wx7.7"Dx11.6"H, 66lbs.	
I-1 I-5	A		KENALL LIGHTING	S1414L-P-DB-25L40K-DV-AL	120/277	30	LED	3260	4000	SURFACE DETAIL 1/X/E/303		14" X 14" SURFACE MOUNT ROUGH-SERVICE LIGHT, ONE-PIECE WRAPAROUND LENS/HOUSING, PROVIDE WITH BASE PLATE.	
D	P1		MARK ACUITY LGHTING	S2LS LLP 32FT MSL8 80CRI 35K 800LMF [FINISH] NODIM MVOLT WHTT WL	120/277	32	LED	3577	4000	SURFACE	80	32 FT LINEAR EXTERIOR SURFACE MOUNTED PENDANT IN EQUAL LENGTH 8FT SECTIONS.	

NOTES
• LUMINAIRE SUPPLIED VOLTAGE TO BE VERIFIED BY ELECTRICAL CONTRACTOR.
• WHERE NOT SPECIFIED; FINISHES TO BE VERIFIED WITH ARCHITECT.

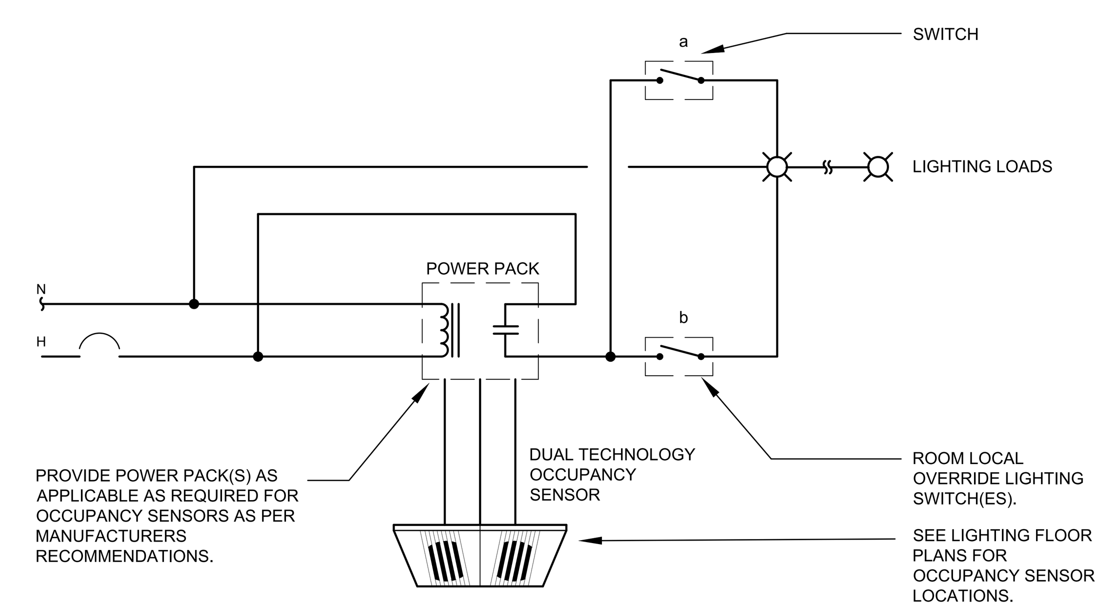
BLDG A - LUMINAIRE SCHEDULE

BLDG.	TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	TOTAL INPUT WATTS (W)	LAMP TYPE	DIRECT LUMEN OUTPUT (L)	INDIRECT LUMEN OUTPUT (L)	LAMP COLOR TEMP (K)	MOUNTING TYPE	CRI
A	ASQ		MARK ACUITY LIGHTING	S2LIPD OPP 36FT_90C_80CRI_35K_800LMF_I80CRI _I35K_I600LMF_MIN1_MVOLT_WHT_ZT	120/277	240	LED	4212	3564	3500	PENDANT DETAIL 3/X/E303	80
A	AL		MARK ACUITY LIGHTING	S2LIPD OPP 30FT_90C_80CRI_35K_800LMF_I80CRI _I35K_I600LMF_MIN1_MVOLT_WHT_ZT	120/277	305	LED	4212	3564	3500	PENDANT DETAIL 3/X/E303	80
A	AS		MARK ACUITY LIGHTING	S2LIPD OPP 18FT_90C_80CRI_35K_800LMF_I80CRI _I35K_I600LMF_MIN1_MVOLT_WHT_ZT	120/277	183	LED	4212	3564	3500	PENDANT DETAIL 3/X/E303	80
A	S1		LITHONIA LIGHTING	ARC 2 LED P3 40K MVOLT E4WH PE DBLXD	120/277	24	LED	3206	N/A	4000	WALL MOUNT DETAIL 1/X/E/303	
A	X1		LITHONIA LIGHTING	EXRG EL M6	120/277	1	LED	N/A	N/A	N/A	CEILING OR WALL MOUNT DETAIL 1/X/E/303	

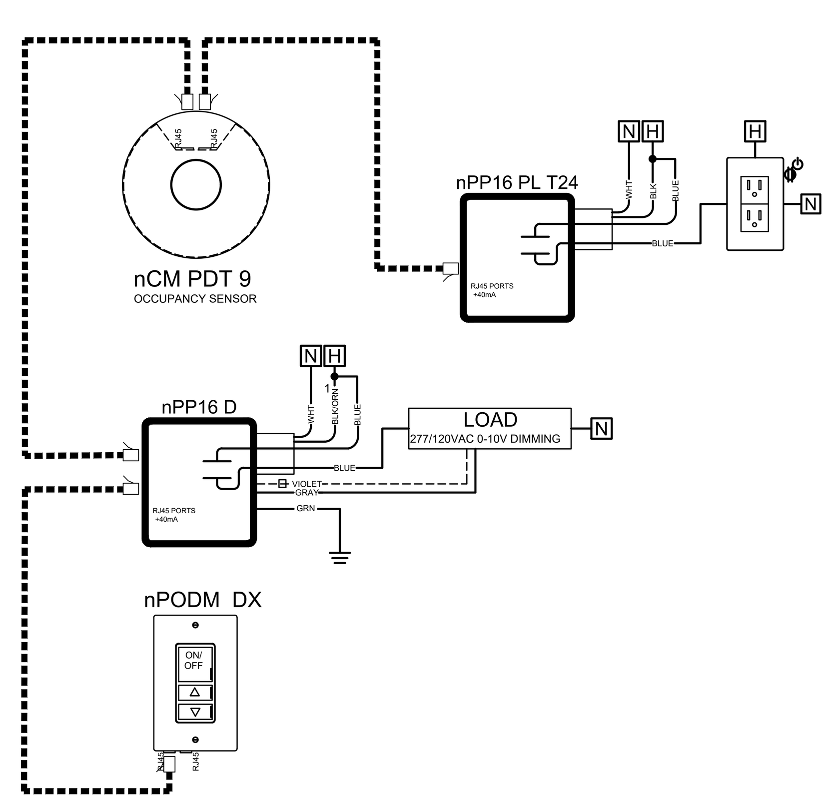
BLDG B - LUMINAIRE SCHEDULE

BLDG.	TYPE	ILLUSTRATION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	TOTAL INPUT WATTS (W)	LAMP TYPE	NOMINAL LUMEN OUTPUT (L)	LAMP COLOR TEMP (K)	MOUNTING TYPE	CRI	DESCRIPTION	REMARKS
B	A SQ		MARK ACUITY LIGHTING	S2SDMP SPP 12FT 490C 80CRI 35K 400LMF SCT MIN1 FLL MVOLT WHTT ZT	120/277	38	LED	4404	3500	SURFACE DETAIL 1/X/E/303		3' X 3' SQUARE SURFACE MOUNTED	
B	A1		MARK ACUITY LIGHTING	S2SD LLP 12FT MSL6 80CRI 35K 400LMF MIN1 FLL SCT MVOLT WHTT ZT	120/277	38	LED	4404	3500	SURFACE DETAIL 1/X/E/303		12' CONTINUOUS LINEAR WITH TWO 6' SECTIONS LED SURFACE MOUNT	
B	A2		LITHONIA LIGHTING	BLWP4 30L ADSM LP835	120/277	25	LED	3000	3500	SURFACE DETAIL 1/X/E/303		4' LINEAR SURFACE MOUNT LED WRAPAROUND	
B	B		LITHONIA LIGHTING	STAK 2X4 3000LM 80CRI 35K COL MIN1 EZT MVOLT	120/277	24	LED	3086	3500	RECESSED DETAIL 2/X/E/303		2' X 4' LED TROFFER WITH CENTER DIFFUSER	
B	B EM		LITHONIA LIGHTING	STAK 2X4 3000LM 80CRI 35K COL MIN1 EZT MVOLT E10WLCP	120/277	24	LED	3086	3500	RECESSED DETAIL 2/X/E/303		SAME AS TYPE 'B' EXCEPT WITH 90-MINUTE BATTERY PACK	
B	C		LITHONIA LIGHTING	FMVCCLS 24IN MVOLT 35K 90CRI BN	120/277	25	LED	1922	3000	WALL MOUNT DETAIL 1/X/E/303		24' WALL MOUNT LED VANITY LUMINAURE	
B	EM1		LITHONIA LIGHTING	ELM6L UVOLT LTP SDRT	120/347	11	LED	1100	N/A	WALL MOUNT DETAIL 1/X/E/303		WALL PACK LED COMMERICAL EMERGENCY LIGHT	
B	S1		LITHONIA LIGHTING	ARC 2 LED P3 40K MVOLT E4WH DBLXD	120/277	24	LED	3206	4000	WALL MOUNT DETAIL 1/X/E/303		WALL PACK LUMINAIRE WITH EMERGENCY BATTERY WITH 90 MIN LIFE SPAN	
B	X1		LITHONIA LIGHTING	EXRG EL M6	120/277	1	LED	N/A	N/A	CEILING OR WALL MOUNT DETAIL 1/X/E/303		EMERGENCY EXIT SIGN WALL OR CEILNG MOUNT WITH BATTERY PROVIDING 90 MINUTES OF EMERGENCY POWER	

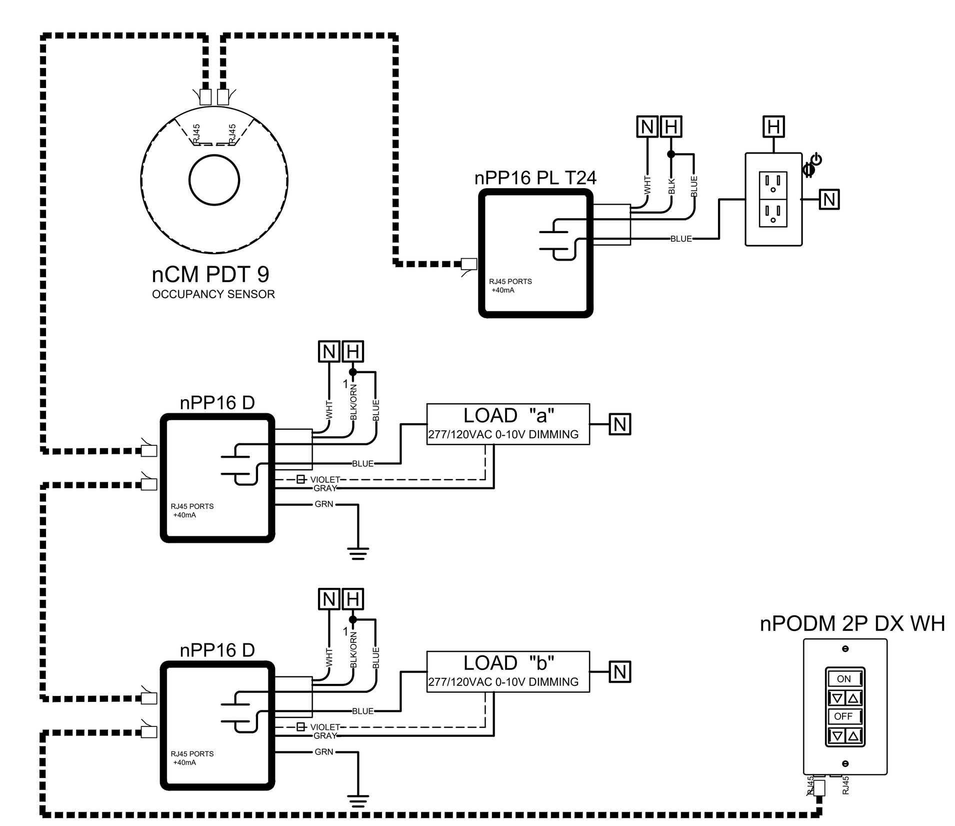
NOTES



3 TYPICAL ROOM OR LOCAL AREA OCCUPANCY SENSOR WIRING DIAGRAM SCALE: NTS



2 LIGHTING CONTROL: TYPICAL SMALL TO MEDIUM SIZE ROOM



1 LIGHTING CONTROL: DUAL - LEVEL TYPICAL SMALL TO MEDIUM SIZE ROOM

DSA File No.: 15-95

DSA Application No.: 03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

LIGHTING CONTROL COMPONANT LIST

LIGHTING CONTROLS SYMBOL LEGEND

SYMBOL	PRODUCT # nLIGHT (U.O.N.)	DESCRIPTION
OSD $	nWSX PDT LV DX	WALL SWITCH DECORATOR OCCUPANCY SENSOR-DUAL TECHNOLOGY (PDT), LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
LV1 $	nPOD M	1 CHANNEL ON/OFF TOGGLE CONTROL
LV1D $	nPOD DX	1 CHANNEL ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
LV2D $	nPODM 2P DX	2 CHANNEL ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
LV4D $	nPODM 4P DX	4 CHANNEL ON/OFF TOGGLE WITH DIMMING LOW VOLTAGE; ON / OFF / RAISE / LOWER CONTROL
2GFX	nPOD GFX	16 CHANNEL, LCD, DIGITAL LIGHT CONTROL PANEL
LR#	nPP16 D	16 AMP RELAY PACK WITH 0-10V DIMMING CONTROL; CHASE NIPPLE MOUNTING
RR	nPP16 PL T24	16 AMP RELAY PACK FOR PLUG LOAD CONTROL; CHASE NIPPLE MOUNTING
P OS	nCM PDT 9 ACDX	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT), DAYLIGHT, OCCUPANCY SENSOR
OS	nCM PDT 9	STANDARD RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT) OCCUPANCY SENSOR
X OS	nCM PDT 10	EXTENDED RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT) OCCUPANCY SENSOR
H OS	nCM PDT 11	HALLWAY RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE, PASSIVE INFRARED (PIR) OCCUPANCY SENSOR
OS	Sensor Switch CMR-PDT-9	OCCUPANCY SENSOR, LINE VOLTAGE 360° CEILING MOUNT, DUAL TECH, STANDARD RANGE
OS $	Sensor Switch WSD	OCCUPANCY SENSOR WALL SWITCH, LINE VOLTAGE, PIR, STANDARD RANGE
		CAT 5 CABLE W/ RJ45 CONNECTORS

NOTES:
A. VERIFY QUANTITY OF DEVICES REQUIRED TO PROVIDE COMPLETE COVERAGE AND CONTROL PER ROOM DIMENSIONAL REQUIREMENTS AND CONTROL FUNCTIONS SHALL SHOWN ON LIGHTING PLANS AND POWER PLANS.
B. PROVIDE A SHOP DRAWING OF THE BUILDING FLOOR PLANS WITH LAYOUT OF CONTROL DEVICES.

1. FOR THE LIGHTING CONTROL SYSTEM; OPEN CABLE INSTALLATION OF CAT 5 IN ACCESSIBLE CEILING SPACE IS ACCEPTABLE. CONDUIT SLEEVES SHALL BE PROVIDED AT ANY AREAS WITH INACCESSIBLE OR HARD LID CEILINGS. CONDUIT AND BOXES AT WALL MOUNTED DEVICES.
2. OPEN CABLE INSTALLATION OF CAT 5 IN ACCESSIBLE CEILING SPACE SHALL BE INSTALLED IN AN ORGANIZED WORKMAN LIKE MANNER WITH J-HOOKS AND/OR CABLE SUPPORTS AT 8FT O.C. MINIMUM.
3. 0-10V CONTROL CABLE SHALL BE 600V RATED #18 THWN CU, OR AS PER LIGHTING CONTROL MANUFACTURERS REQUIREMENTS. INSTALLED IN LIGHTING BRANCH CIRCUIT CONDUITS.
4. LOCATE CONTROL RELAYS ABOVE CEILINGS IN A CONSISTENT MANNER AT EACH ROOM TYPE. TYPICALLY LOCATE THE RELAYS ABOVE THE LIGHTING CONTROL SWITCH(ES).

General Notes

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EXPIRES: 06/30/26
THOMA #22-8087
Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

LIGHTING SCHEDULES AND CONTROL DETAILS
Drawing

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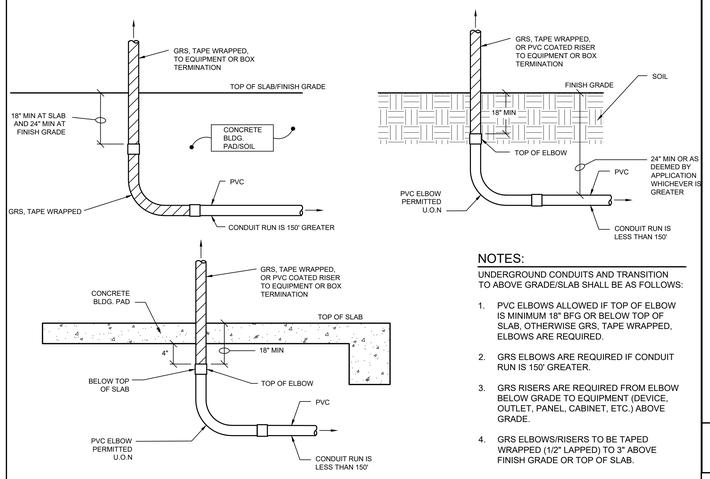
Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E203
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	



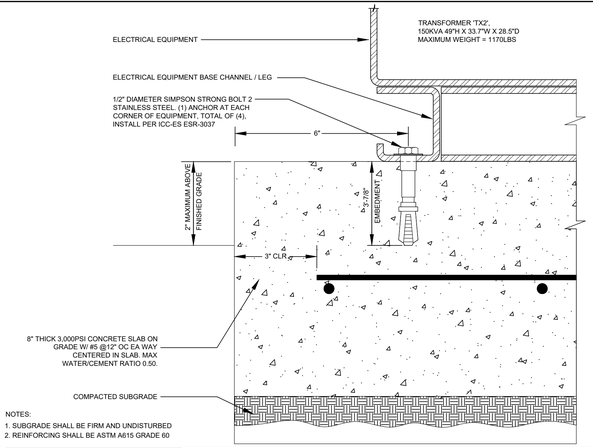
NOTES:

UNDERGROUND CONDUITS AND TRANSITION TO ABOVE GRADE/SLAB SHALL BE AS FOLLOWS:

1. PVC ELBOWS ALLOWED IF TOP OF ELBOW IS MINIMUM 18" BFG OR BELOW TOP OF SLAB, OTHERWISE GRS, TAPE WRAPPED, ELBOWS ARE REQUIRED.
2. GRS ELBOWS ARE REQUIRED IF CONDUIT RUN IS 150' GREATER.
3. GRS RISERS ARE REQUIRED FROM ELBOW BELOW GRADE TO EQUIPMENT (DEVICE, OUTLET, PANEL, CABINET, ETC.) ABOVE GRADE.
4. GRS ELBOWS/RISERS TO BE TAPED WRAPPED (1/2" LAPPED) TO 3" ABOVE FINISH GRADE OR TOP OF SLAB.

7 TYP. UNDERGROUND CONDUITS AND TRANSITION TO ABOVE GRADE/SLAB

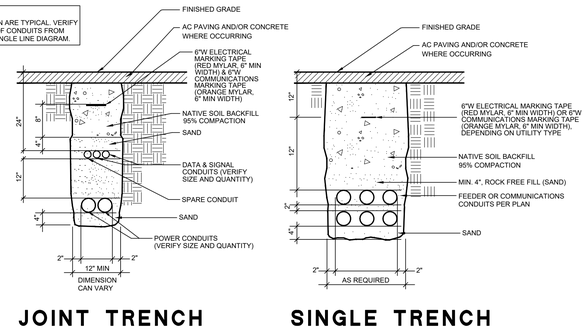
SCALE: NTS



NOTES:
1. SUBGRADE SHALL BE FIRM AND UNDISTURBED
2. REINFORCING SHALL BE ASTM A615 GRADE 60

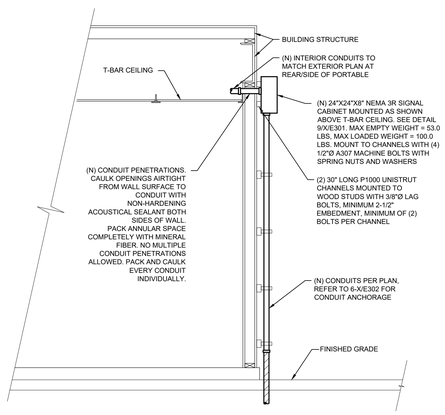
4 TYPICAL TRANSFORMER MOUNTING

SCALE: NTS



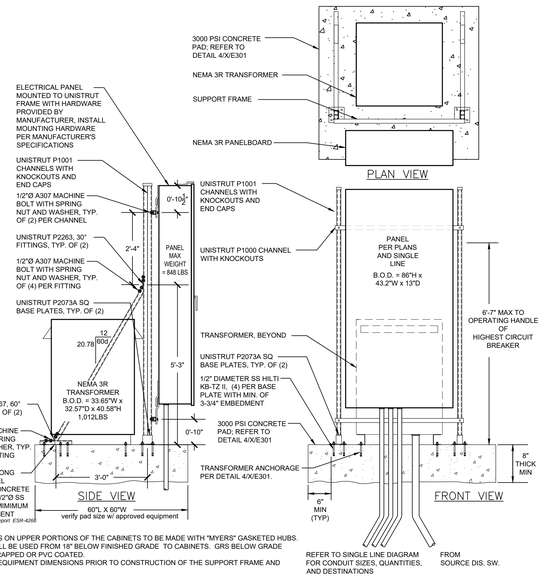
1 TYPICAL CONDUIT IN TRENCH

SCALE: NTS



8 EXTERIOR TELECOMMUNICATIONS CABINET SECTION

SCALE: NTS

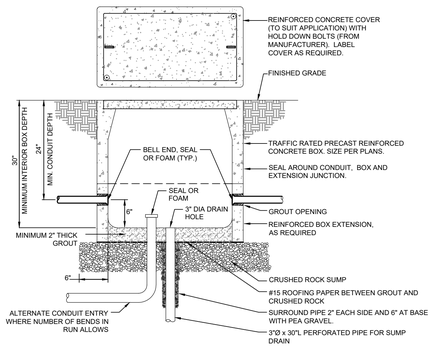


NOTES:
1. ALL PENETRATIONS ON UPPER PORTIONS OF THE CABINETS TO BE MADE WITH "MYERS" GASKETED HUBS.
2. GRS CONDUIT SHALL BE USED FROM 18" BELOW FINISHED GRADE TO CABINETS. GRS BELOW GRADE SHALL BE TAPE-WRAPPED OR PVC COATED.
3. VERIFY SUPPLIED EQUIPMENT DIMENSIONS PRIOR TO CONSTRUCTION OF THE SUPPORT FRAME AND CONCRETE PAD.

5 ELECTRICAL EQUIPMENT MOUNTING DETAIL

SCALE: NTS

NOTES:
1. PULL BOXES SHALL BE INTERMITTENT TRAFFIC RATED.
2. PULLBOXES CONSTRUCTED OF REINFORCED POLYMER WITH TRAFFIC RATING ARE ACCEPTABLE.



2 TYPICAL PULL BOX, 24" X 36" AND SMALLER

SCALE: NTS

REFERENCE NOTES

1. LOW VOLTAGE SYSTEMS SURFACE MOUNT GRS CONDUITS TO SURFACE BOX WITH CONDUIT ENTRIES INTO BUILDING INTERIOR ABOVE CEILING SPACE. WHERE OCCURRING PER LAYOUT.

AT RELOCATABLE CLASSROOM:
(1) 2"C FOR INCOMING SIGNAL
(1) 2"C FOR INCOMING FIRE ALARM
(1) 2"C.O. SPARE

2. UNIT POWER PANEL(S) FURNISHED AND INSTALLED INSIDE BUILDING BY BUILDING MANUFACTURER. VERIFY EXACT QUANTITY, LOCATION AND POINT OF CONNECTION.

3. POWER, BRANCH CIRCUIT, AND GROUNDING SYSTEM SURFACE MOUNTED CONDUITS AND CONDULET ENTRIES INTO BUILDING SUBPANEL SHALL BE GRS. UNDERGROUND POWER AND GROUNDING SYSTEM CONDUITS SHALL BE PVC SCHEDULE 80. PROVIDE WITH FEEDER PER SINGLE LINE DIAGRAM AND SITE PLAN.

4. NEW LOW VOLTAGE SYSTEMS CABINET/PULL BOX (NOTE 1 ABOVE). PROVIDE ENGRAVED LABEL "SIGNAL CABINET". MOUNT AT ATTIC HEIGHT. PROVIDE MINIMUM 24"X24"x8"D NEMA 3R, 316 STEEL PULLBOX WITH HINGED, LOCKABLE COVER (MAX TOTAL WEIGHT OF 100LBS).

5. GRS CONDUIT WITH PVC TAPEWRAP FROM 6" ABOVE GRADE TO 24" BELOW GRADE. TYPICAL.

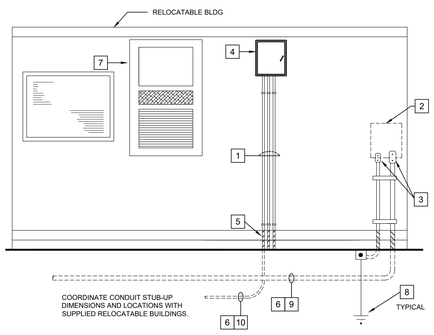
6. UNDERGROUND CONDUITS CONTINUED ON SITE ELECTRICAL PLAN, SEE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZING.

7. HVAC UNIT, VERIFY LOCATION. MAY NOT EXIST ON ALL BUILDING ELEVATIONS.

8. "GROUND BOX" FLUSH-IN-GRADE AT BASE OF RELOCATABLE PANEL FEEDER PENETRATION. RELOCATABLE PREMISES GROUNDING/BONDING CONNECTIVITY PER 4/X/E201.

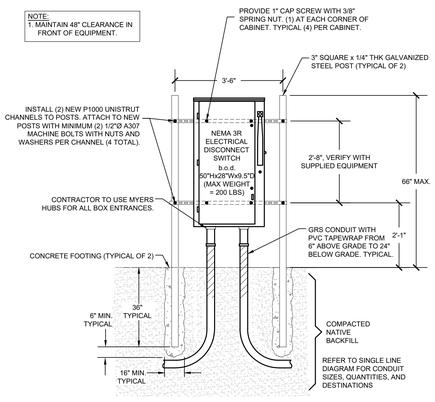
9. PROVIDE AND INSTALL UNDERGROUND POWER FEEDER AND SITE ELECTRICAL BRANCH CIRCUITS (AS APPLICABLE).

10. UNDERGROUND DATA/COMMUNICATIONS CONDUITS WHERE PER SITE PLAN.



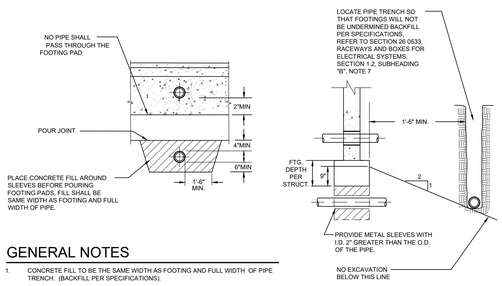
9 TYPICAL RELOCATABLE BUILDING REAR ELEVATION

SCALE: NTS



6 TRANSFORMER DISCONNECT MOUNTING DETAIL

SCALE: NTS



GENERAL NOTES

1. CONCRETE FILL TO BE THE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH. (BACKFILL PER SPECIFICATIONS).
2. CENTER PIPE IN PVC OR GALVANIZED METAL SLEEVE THAT HAS A MIN. I.D. 2" GREATER THAN THE PIPES O.D.
3. WATERPROOF OPENING AROUND PIPE PER GENERAL SPECIFICATIONS.
4. COORDINATE INSTALLATION WITH STRUCTURAL ENGINEER.

3 TYPICAL CONDUIT NEAR/THRU FOOTING DETAIL

SCALE: NTS

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

General Notes

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EXPIRES: 06/30/26
Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

ELECTRICAL DETAILS

Drawing

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Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E301
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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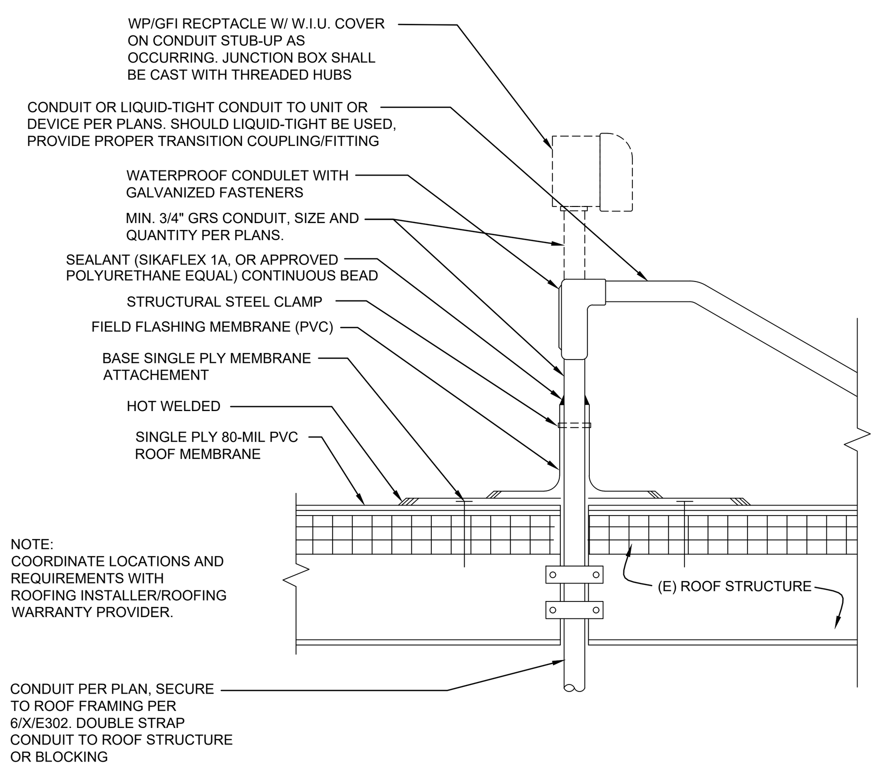
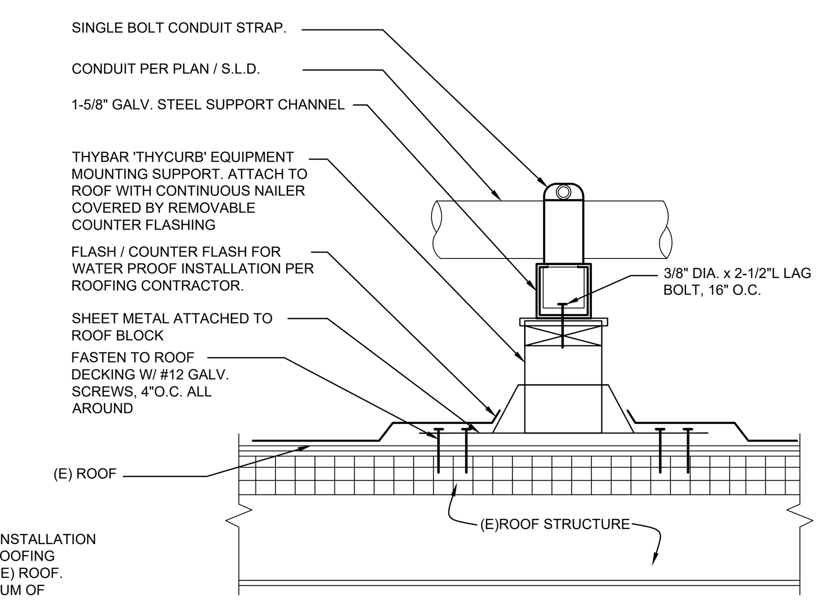


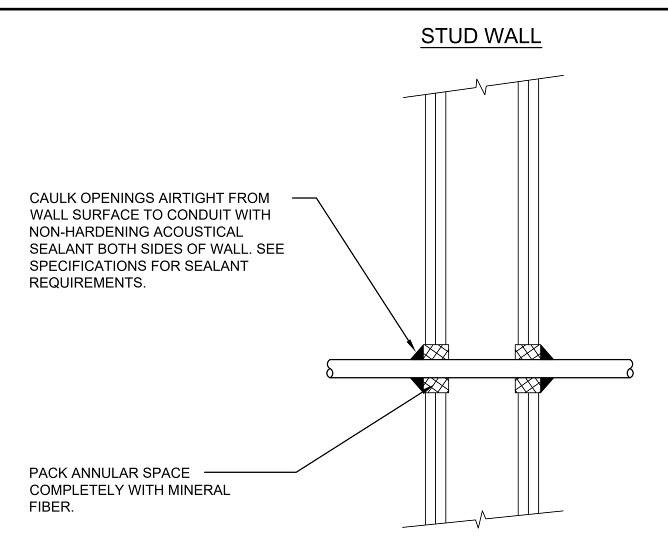
NOTE:
COORDINATE LOCATIONS AND REQUIREMENTS WITH ROOFING INSTALLER/ROOFING WARRANTY PROVIDER.

7 TYPICAL CONDUIT ROOF PENETRATION DETAIL
SCALE: NTS



NOTES:
- COORDINATE ROOFING MATERIALS AND INSTALLATION SPECIFICATION WITH ARCHITECTURAL. ROOFING MATERIALS MUST BE COMPATIBLE WITH (E) ROOF.
- PROVIDE CONDUIT SUPPORT AT A MAXIMUM OF 10-FEET ON-CENTER.
- ALL ROOF MOUNTED CONDUIT LOCATIONS SHALL BE APPROVED BY ARCHITECT/OWNER IN ADVANCE OF INSTALLATION.
- ALL ROOF MOUNTED CONDUIT SHALL BE PAINTED TO MATCH ROOF SURFACE.

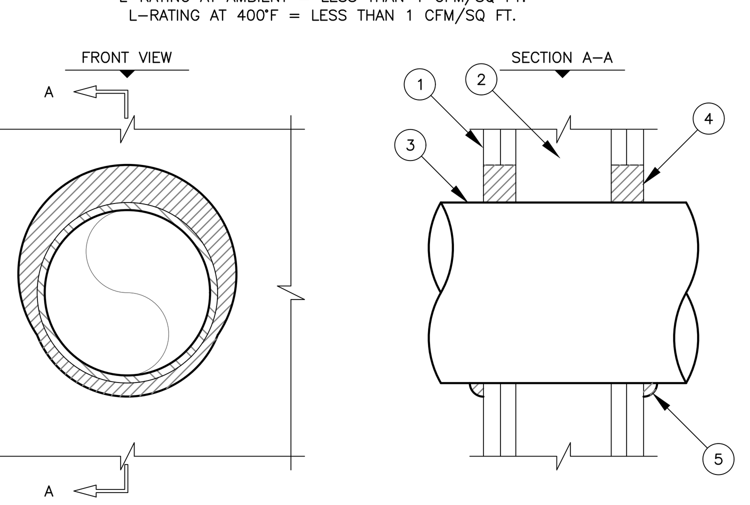
8 TYPICAL ROOF MOUNTED CONDUIT SUPPORT
SCALE: NTS



NOTE:
- NO MULTIPLE CONDUIT PENETRATIONS ALLOWED. PACK AND CAULK EVERY CONDUIT INDIVIDUALLY.
- THIS DETAIL DOES NOT SATISFY THE REQUIREMENTS FOR FIRE RATING; EC SHALL REFER TO 10/X/E302 FOR APPROPRIATE FIRE RATING PENETRATION DETAIL.

9 TYPICAL SEALED CONDUIT PENETRATION
SCALE: NTS

F–RATING = 1–HR. OR 2–HR.
T–RATING = 0–HR.
L–RATING AT AMBIENT = LESS THAN 1 CFM/SQ FT.
L–RATING AT 400°F = LESS THAN 1 CFM/SQ FT.

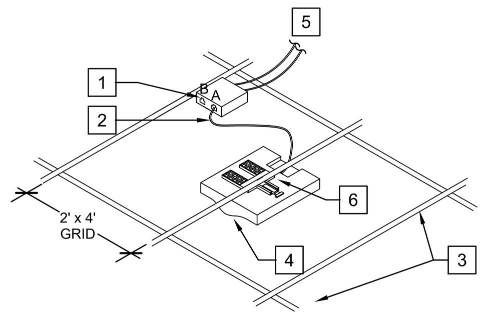


1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, OR V400 SERIES) (1–HR. OR 2–HR. FIRE–RATING) (2–HR. SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2–1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 30" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" NOMINAL DIAMETER CAST IRON OR DUCTILE IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE OR TUBING.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. HILTI CP 606 FLEXIBLE FIRESTOP SEALANT:
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1–HR. FIRE–RATING.
   B. MINIMUM 1–1/4" DEPTH OF SEALANT FOR A 2–HR. FIRE–RATING.
5. MINIMUM 1/2" BEAD HILTI CP 606 FLEXIBLE FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 32".
2. ANNULAR SPACE IN 1–HR. WALLS = MINIMUM 0", MAXIMUM 1".
3. ANNULAR SPACE IN 2–HR. WALLS = MINIMUM 0", MAXIMUM 2".
4. PENETRANT MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.

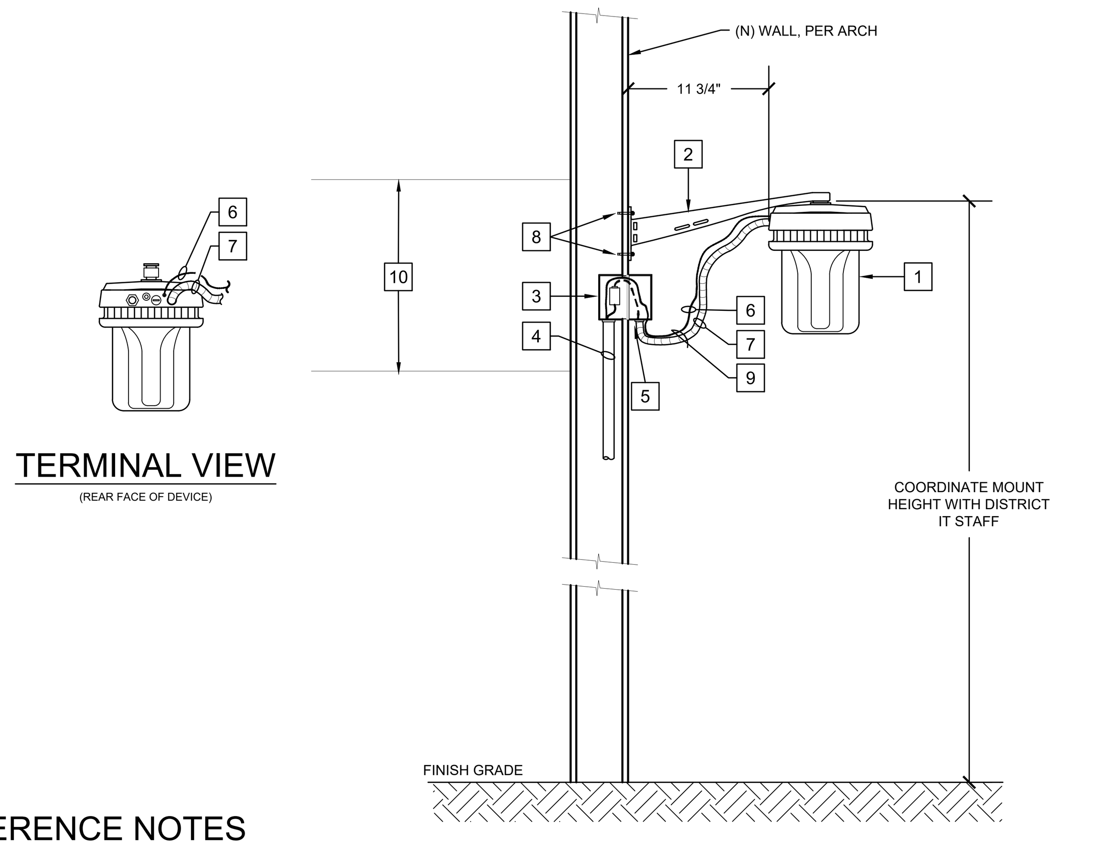
10 TYPICAL METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
SCALE: UL/cUL SYSTEM NO. W-L-1297

GENERAL NOTES
ALL HARDWARE NOTED AS "PROVIDED BY OWNER" SHALL BE BROUGHT TO THE ATTENTION OF OWNER REPRESENTATIVE AT NOTICE TO PROCEED FOR SCHEDULING OF EQUIPMENT ARRIVAL WITHIN CONSTRUCTION TIMELINE. ALL HARDWARE SHALL BE INSTALLED BY THE EC UNLESS DIRECTED OTHERWISE BY OWNER.



☐ REFERENCE NOTES
1. 2-PORT BISCUIT MOUNTED IN ACCESSIBLE CEILING SPACE. EC SHALL PROVIDE LABELS FOR EACH CABLE AT BISCUIT, AND SHALL TERMINATE (FEMALE) AND TEST BOTH CABLES, AND PROVIDE TEST RESULTS TO OWNER.
2. (1) (N) WHITE, 2-METER CAT6A PATCH CABLE BETWEEN NEW WIRELESS ACCESS POINT AND CAT6A TERMINATION BISCUIT. PATCH CABLE SHALL BE INSERTED INTO RJ-45 PORT LABELED 'PoE' ON WIRELESS ACCESS POINT, AND 'A' CABLE ON BISCUIT.
3. (E) T-BAR CEILING. PENETRATIONS THROUGH CEILING TILES SHALL BE SEALED SO AS TO MAINTAIN FIRE RATING OF CEILING TILE IF APPLICABLE.
4. (N) WIRELESS ACCESS POINT, TO BE PROVIDED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. EC SHALL NOTIFY OWNER OF ACCESS POINT QUANTITIES AND LOCATIONS A MINIMUM OF 6-WEEKS PRIOR TO INSTALLATION DATE.
5. (2) (N) WHITE CAT6A CABLES FROM IDF TO BISCUIT. ALL CAT6A CABLE AND TERMINATION HARDWARE (INCLUDING MODULAR JACKS, PATCH CABLES, ETC.) SHALL BE WHITE IN COLOR.
6. WAP MANUFACTURER PROVIDED T-BAR MOUNTING CLIP. ADHERE STRICTLY TO MANUFACTURER PROVIDED INSTALLATION INSTRUCTIONS.

4 INDOOR WAP T-BAR MOUNTING
SCALE: NTS

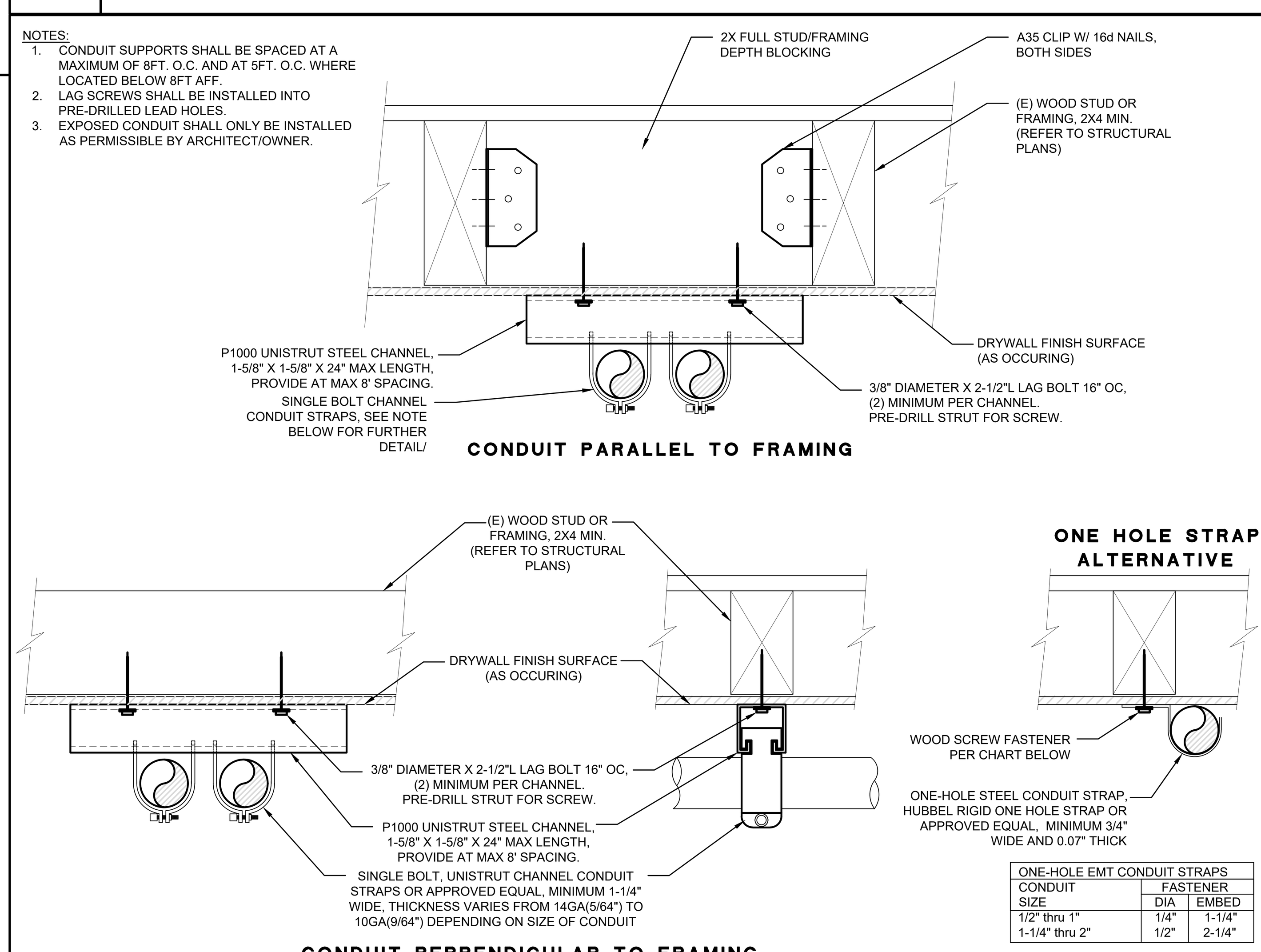


REFERENCE NOTES
1. OUTDOOR WIRELESS ACCESS POINT PROVIDED BY DISTRICT IT STAFF, INSTALLED BY EC. CURRENTLY ASSUMED TO BE ARUBA NETWORKS MODEL #AP-277, MAX WEIGHT 4.4-LBS(2.0-KG). POSITION ACCESS POINT SUCH THAT PORTS ARE FACING FINISHED GRADE TO PREVENT WATER INGRESS.
2. ARUBA NETWORKS WALL-MOUNTED STAND-OFF BRACKET AND ACCESS POINT MOUNT. MODEL #AP-270-MNT-V1
3. (N) FLUSH-MOUNTED 6"x6" JUNCTION BOX. EC SHALL PROVIDE ADDITIONAL GASKET AND NEMA 3R J-BOX EXTENSION WITH SCREW COVER. TERMINATE (2) CAT6A CABLES IN 2-PORT BISCUIT INSIDE JUNCTION BOX.
4. (N) CONDUIT FOR GROUND CONDUCTOR AND CATEGORY CABLING, HOMERUN TO APPROPRIATE IDF AS INDICATED ON FLOORPLAN AND RISER DIAGRAM. MINIMUM 1-1/4" TRADE SIZE.
5. PROVIDE SEAL-TIGHT CONDUIT FITTING FOR (N) 1/2" SEAL-TITE CONDUIT. PROVIDE GLAND NUT FOR GROUND CABLE ENTRANCE INTO JUNCTION BOX (GROUND CABLE NOT ROUTED THROUGH SEAL-TIGHT).
6. (1) #8 THWN GND CONDUCTOR (GREEN JACKET) TIED FROM ACCESS POINT UNIT AND ROUTED THROUGH JUNCTION BOX TO EQUIPMENT GROUND BUS IN NEAREST ELECTRICAL PANEL.
7. (N) 1/2" SEAL-TIGHT CONDUIT FROM JUNCTION BOX ON WALL TO (N) WIRELESS ACCESS POINT. EC SHALL PROVIDE M20-TO-1/2" NPT ADAPTER (SEPARATE PART NUMBER, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS), AND ROUTE (N) UV RESISTANT CAT6A CABLE BETWEEN BISCUIT IN JUNCTION BOX AND ACCESS POINT. EC SHALL USE FACTORY PROVIDED SEALING DEVICE FOR CONNECTION TO ACCESS POINT HOUSING.
8. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR WALL-MOUNT. EC SHALL PROVIDE A MINIMUM OF (4) HILTI KB-TZ ANCHOR-BOLTS/WASHERS/NUTS AS SHOWN IN MANUFACTURER'S MOUNTING INSTRUCTIONS. BOLTS/WASHERS/NUTS ARE NOT PROVIDED IN BRACKET KIT PACKAGE, EC SHALL PROVIDE.
9. USE MANUFACTURER PROVIDED CABLE TIE TO SECURE GROUND CABLE TO SEAL-TIGHT FLEXIBLE CONDUIT. EC SHALL PULL-BACK SLACK LOOP SO THERE SHALL BE NO SAG IN CABLE.
10. (E) ACCESSIBLE CEILING SPACE SHOWN FOR REFERENCE ONLY. ACTUAL HEIGHTS AND AVAILABILITY MAY VARY PER LOCATION.

GENERAL NOTES
ALL HARDWARE NOTED AS PROVIDED BY OWNER SHALL BE BROUGHT TO THE ATTENTION OF OWNER REPRESENTATIVE AT NOTICE TO PROCEED FOR SCHEDULING OF EQUIPMENT ARRIVAL WITHIN CONSTRUCTION TIMELINE. ALL HARDWARE SHALL BE INSTALLED BY THE EC UNLESS DIRECTED OTHERWISE BY OWNER.

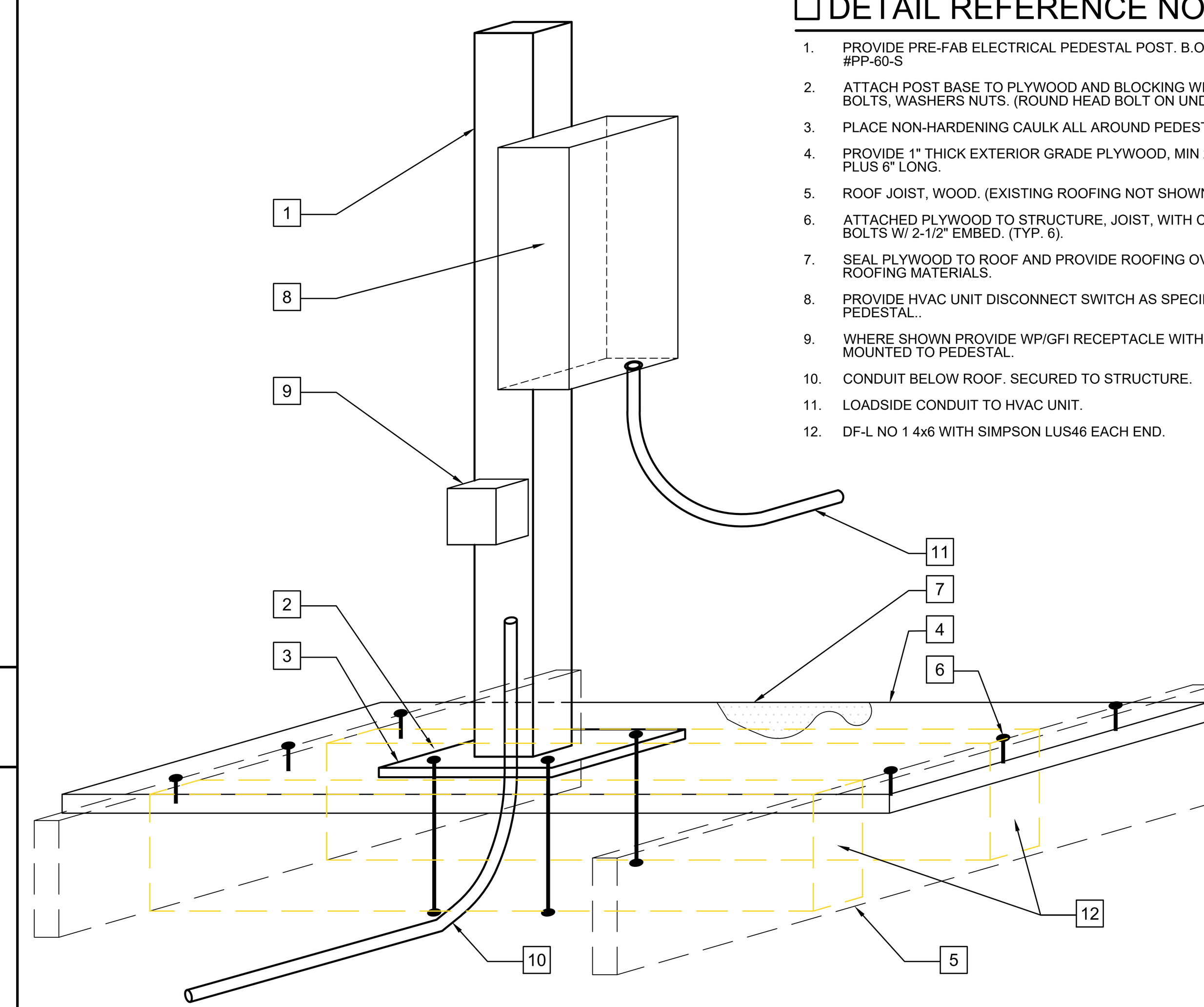
5 OUTDOOR WIRELESS ACCESS POINT (WALL)
SCALE: NTS

NOTES:
1. CONDUIT SUPPORTS SHALL BE SPACED AT A MAXIMUM OF 8FT. O.C. AND AT 5FT. O.C. WHERE LOCATED BELOW 8FT AFF.
2. LAG SCREWS SHALL BE INSTALLED INTO PRE-DRILLED LEAD HOLES.
3. EXPOSED CONDUIT SHALL ONLY BE INSTALLED AS PERMISSIBLE BY ARCHITECT/OWNER.



ONE-HOLE EMT CONDUIT STRAPS		
CONDUIT	FASTENER	
SIZE	DIA	EMBED
1/2" thru 1"	1/4"	1-1/4"
1-1/4" thru 2"	1/2"	2-1/4"

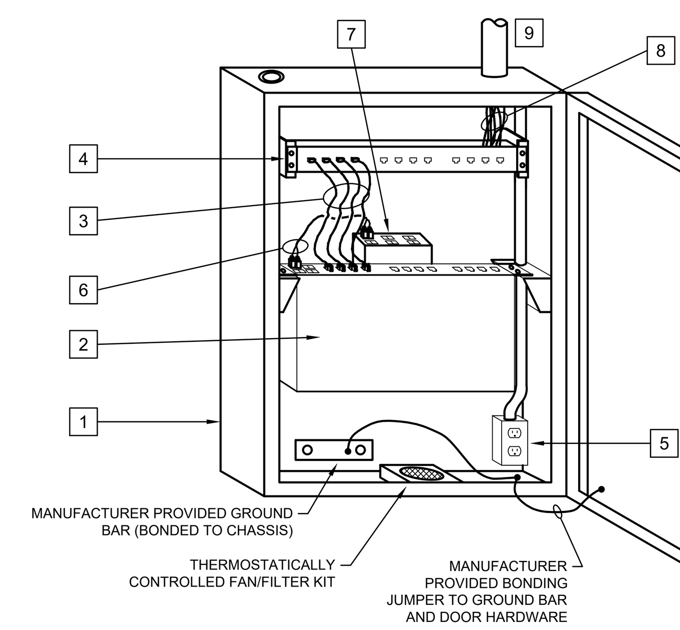
6 TYPICAL CONDUIT ANCHORAGE DETAILS
SCALE: NTS



☐ DETAIL REFERENCE NOTES
1. PROVIDE PRE-FAB ELECTRICAL PEDESTAL POST. B.O.D. ORBITS INDUSTRIES #PP-60-S
2. ATTACH POST BASE TO PLYWOOD AND BLOCKING WITH (4) 3/8"Ø S.S. CARRIAGE BOLTS, WASHERS NUTS. (ROUND HEAD BOLT ON UNDERSIDE).
3. PLACE NON-HARDENING CAULK ALL AROUND PEDESTAL BASE TO PLYWOOD.
4. PROVIDE 1" THICK EXTERIOR GRADE PLYWOOD, MIN 20"W x JOIST SPACING PLUS 6" LONG.
5. ROOF JOIST, WOOD. (EXISTING ROOFING NOT SHOWN).
6. ATTACHED PLYWOOD TO STRUCTURE, JOIST, WITH COUNTERSUNK 3/8"Ø LAG BOLTS W/ 2-1/2" EMBED. (TYP. 6).
7. SEAL PLYWOOD TO ROOF AND PROVIDE ROOFING OVER PLYWOOD. MATCH (E) ROOFING MATERIALS.
8. PROVIDE HVAC UNIT DISCONNECT SWITCH AS SPECIFIED. MOUNT TO PEDESTAL..
9. WHERE SHOWN PROVIDE WP/GFI RECEPTACLE WITH W.P. BOX AND COVER MOUNTED TO PEDESTAL.
10. CONDUIT BELOW ROOF. SECURED TO STRUCTURE.
11. LOADSIDE CONDUIT TO HVAC UNIT.
12. DF-L NO 1 4x6 WITH SIMPSON LUS46 EACH END.

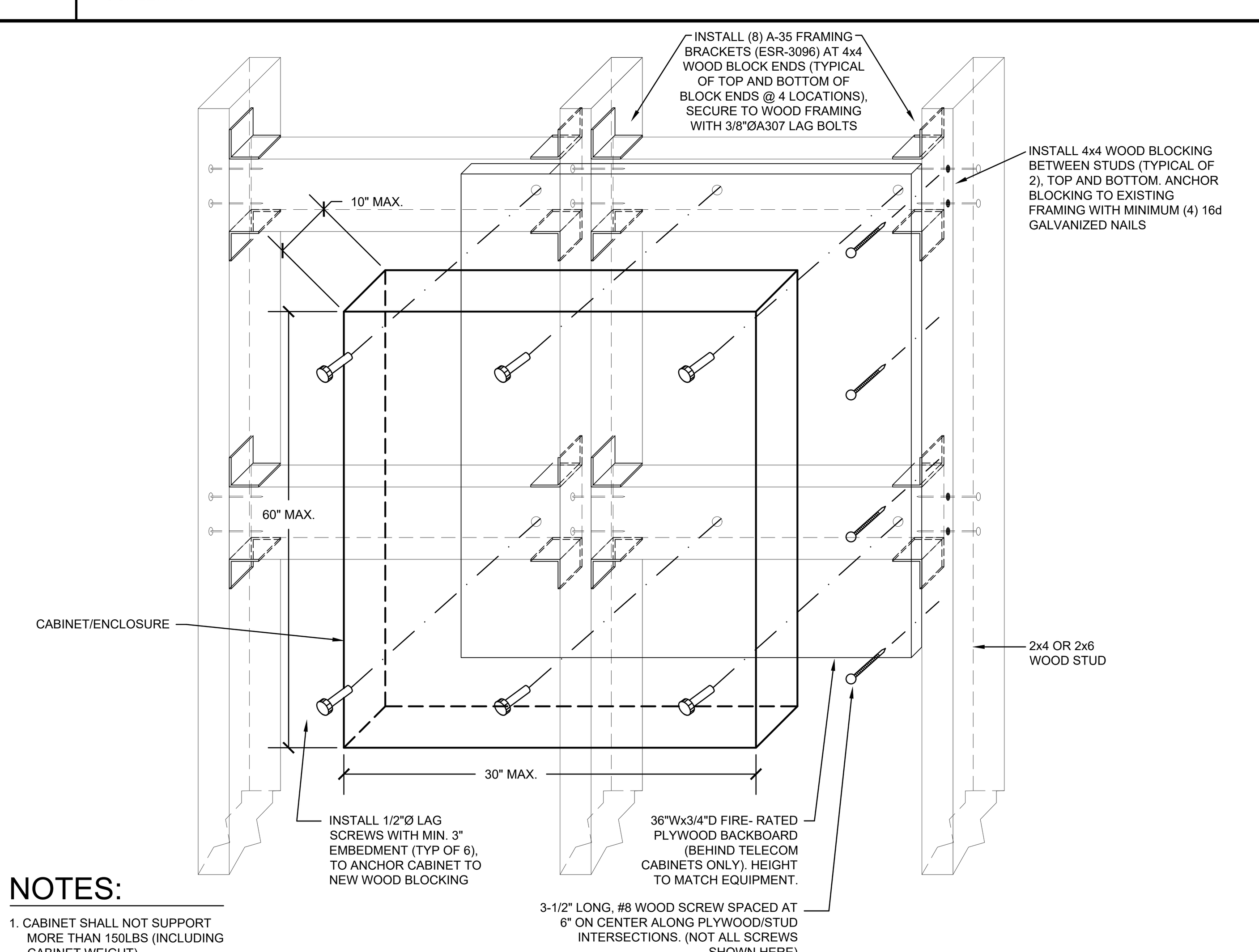
1 DISCONNECT SWITCH PEDESTAL MOUNT
NTS

SAFETY SWITCH MOUNTING OPTION 1



☐ REFERENCE NOTES
1. WALL MOUNTED DATA INTERMEDIATE DISTRIBUTION FRAME "IDF", HUBBELL RE-BOX. REFER TO "SURFACE MOUNTED CABINET" DETAIL 3 ON THIS SHEET FOR MOUNTING DETAILS.
2. SYSTEM ELECTRONICS TO BE PROVIDED AND INSTALLED BY CLIENT.
3. 1M CAT6 UTP PATCH CABLES TO BE BLUE IN COLOR. 1M CAT6A UTP PATCH CABLES TO BE WHITE IN COLOR.
4. INSTALL RACK MOUNTED 19" PATCH PANEL, LEVITON MODEL #49255-L48. SEE RISER DIAGRAM FOR PORT COUNT. WHERE CAT6 IS TERMINATED, USE BLUE JACK COLOR, WHERE CAT6A IS TERMINATED USE WHITE JACK COLOR.
5. EC SHALL PROVIDE (N) DEDICATED 20A, 120V POWER CIRCUIT TO RECEPTACLE ENCLOSED INSIDE CABINET.
6. DUPLEX FIBER OPTIC PATCH CORD. LC-LC, CONNECTOR TYPE. SEE RISER DIAGRAM TO MATCH QUANTITY AND TYPE OF FIBER CABLE.
7. INSTALL FIBER OPTIC SPLICE ENCLOSURE, CORNING SPH-01P OR EQUIVALENT, FASTENED TO REAR OF ENCLOSURE AS SHOWN. FUSION SPLICE ALL FIBER CABLE ACCORDING TO RISER DIAGRAM USING FACTORY TERMINATED "PIG-TAILS" IN 1-2 METER LENGTH AS APPLICABLE. MECHANICAL FIBER OPTIC TERMINATIONS ARE NOT PERMITTED. PROVIDE DUST CAPS AT ALL UNUSED ADAPTER PLATE POSITIONS.
8. HORIZONTAL (CAT6 & CAT6A UTP) CABLING TO USER STATIONS TERMINATE TO PATCH PANEL PER NOTE 4.
9. AVAILABLE RACEWAY FOR CAT6, CAT6A, AND FIBER OPTIC CABLING. INSTALL CONDUIT AS NECESSARY.

2 WALL-MOUNTED IDF CABINET
SCALE: NTS



NOTES:
1. CABINET SHALL NOT SUPPORT MORE THAN 150LBS (INCLUDING CABINET WEIGHT).

3 SURFACE MOUNTED CABINET/ENCLOSURE
SCALE: NTS

DSA File No.: 15-95
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DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

General Notes

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EXPIRES: 06/30/26
THOMA #22-8087
Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

ELECTRICAL DETAILS
Drawing

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LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA
Architect

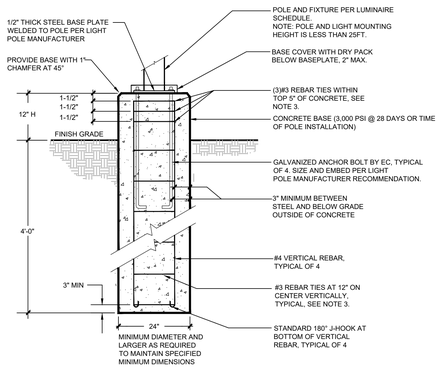
No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E302
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

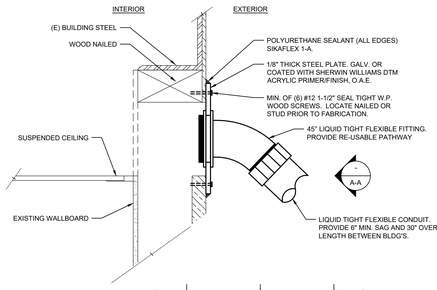
NOTES:

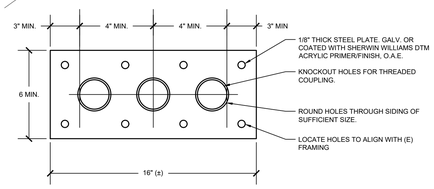
1. GALVANIZED ANCHOR BOLTS & TEMPLATE FURNISHED BY EC, BOLTS INSTALLED AND CONCRETE BASE FURNISHED AND INSTALLED WITH REBAR BY GC.
2. CONDUIT SHALL BE 3/4" MINIMUM SIZE AND MINIMUM 24" BELOW FINISH GRADE.
3. TIES SHALL HAVE AT EACH END A 135 DEGREE HOOK BEND WITH A SIX-BAR DIAMETER, BUT NOT LESS THAN 3 INCH, EXTENSION THAT ENGAGES THE LONGITUDINAL REINFORCEMENT AND PROJECTS INTO THE INTERIOR OF THE STIRRUP OR HOOP.



6 LIGHT POLE BASE MOUNTING

SCALE: NTS



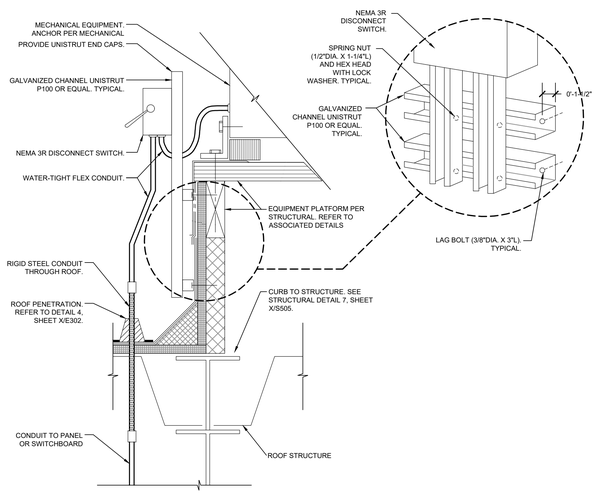


NOTE:
CUT WALLBOARD AND SIDING AS REQUIRED TO MAKE CONDUIT CONNECTIONS ABOVE SUSPENDED CEILING.

A - A

7 CONDUIT SPAN BETWEEN PORTABLES

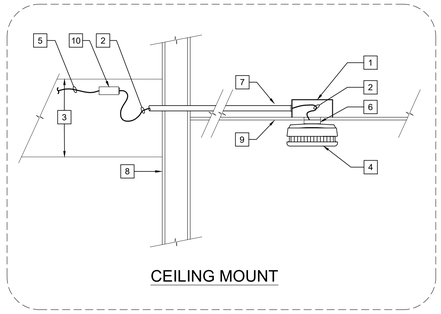
SCALE: NTS



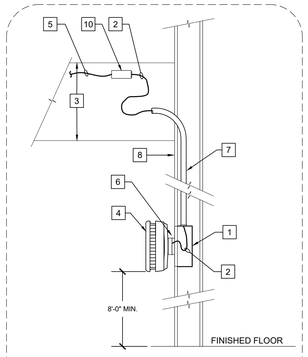
9 ROOF MNTD SAFETY SWITCH MOUNTING DETAIL

NTS

SAFETY SWITCH MOUNTING, OPTION 2



CEILING MOUNT



WALL MOUNT

☐ REFERENCE NOTES

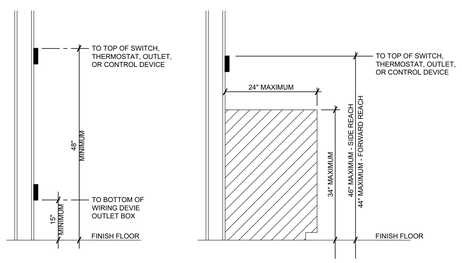
1. (N) FLUSH-MOUNTED 5" SQUARE BOX WITH PLASTER RING.
2. (N)(1) WHITE, CAT6A PATCH CABLE (LENGTH AS NECESSARY UP TO 10-METERS MAXIMUM LENGTH) BETWEEN NEW WIRELESS ACCESS POINT AND CAT6A TERMINATION BISCUIT. PATCH CABLE SHALL BE INSERTED INTO RJ-45 PORT LABELED 'PoE' ON WIRELESS ACCESS POINT, AND 'A' CABLE ON BISCUIT.
3. INTERIOR ACCESSIBLE CEILING SPACE.
4. (N) WIRELESS ACCESS POINT, TO BE PROVIDED BY OWNER AND INSTALLED BY ELECTRICAL CONTRACTOR. EC SHALL NOTIFY OWNER OF ACCESS POINT QUANTITIES AND LOCATIONS AT CONTRACT NOTICE TO PROCEED.
5. (N)(2) WHITE CAT6A CABLES FROM IDF TO BISCUIT. ALL CAT6A CABLE AND TERMINATION HARDWARE (INCLUDING MODULAR JACKS, PATCH CABLES, ETC.) SHALL BE WHITE IN COLOR.
6. WAP MANUFACTURER PROVIDED CEILING MOUNT BRACKET. ADHERE STRICTLY TO MANUFACTURER PROVIDED INSTALLATION INSTRUCTIONS.
7. (N) 1-1/4" CONDUIT FROM ACCESSIBLE CEILING SPACE, THROUGH WALL TO (N) 5" SQUARE BOX.
8. STUD WALL. TYP.
9. HARD LID. TYP.
10. (N) 2-PORT BISCUIT MOUNTED IN ACCESSIBLE CEILING SPACE. EC SHALL PROVIDE LABELS FOR EACH CABLE AT BISCUIT, AND SHALL TERMINATE (FEMALE) AND TEST BOTH CABLES, AND PROVIDE TEST RESULTS TO OWNER

GENERAL NOTES

ALL HARDWARE NOTED AS "PROVIDED BY OWNER" SHALL BE BROUGHT TO THE ATTENTION OF OWNER REPRESENTATIVE AT NOTICE TO PROCEED FOR SCHEDULING OF EQUIPMENT ARRIVAL WITHIN CONSTRUCTION TIMELINE. ALL HARDWARE SHALL BE INSTALLED BY THE EC UNLESS DIRECTED OTHERWISE BY OWNER.

4 INDOOR WIRELESS ACCESS POINT (CEILING/WALL)

SCALE: NTS

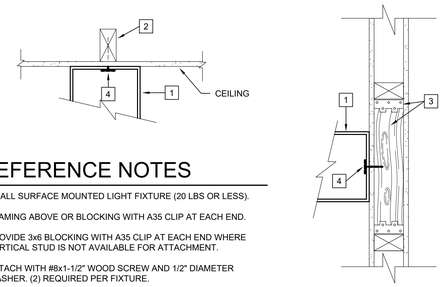


MOUNTING HEIGHT

OVER OBSTRUCTION

5 TYPICAL DEVICE ADA MOUNTING HEIGHTS

SCALE: NTS

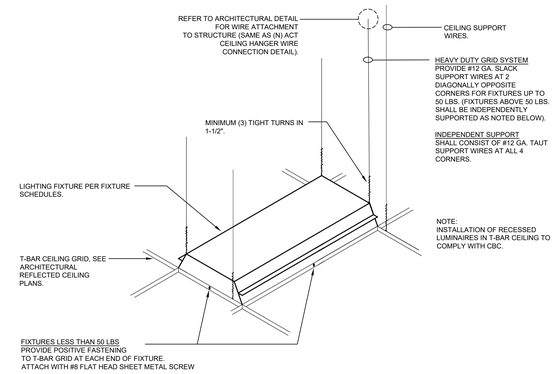


☐ REFERENCE NOTES

1. SMALL SURFACE MOUNTED LIGHT FIXTURE (20 LBS OR LESS).
2. FRAMING ABOVE OR BLOCKING WITH A35 CLIP AT EACH END.
3. PROVIDE 3x6 BLOCKING WITH A35 CLIP AT EACH END WHERE VERTICAL STUD IS NOT AVAILABLE FOR ATTACHMENT.
4. ATTACH WITH #8x1-1/2" WOOD SCREW AND 1/2" DIAMETER WASHER. (2) REQUIRED PER FIXTURE.

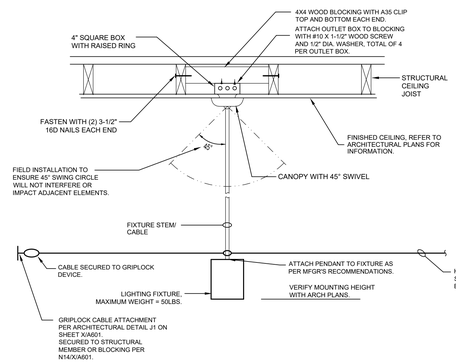
1 TYP. SURFACE MOUNTED LIGHT FIXTURE MOUNTING DETAIL

SCALE: NTS



2 TROFFER LUMINAIRE MOUNTING DETAIL - GRID

SCALE: NTS



NOTE:
PENDANT FIXTURE INSTALLATIONS SHALL ALLOW THE FIXTURE TO SWING 45° IN ANY DIRECTION WITHOUT OBSTRUCTION. IN THE EVENT OBSTRUCTIONS EXIST, A 3/32" MIN. S.S. AIRCRAFT CABLE SHALL BE INSTALLED AS SHOWN TO RESTRICT THE MOVEMENT OF THE FIXTURE IN THE DIRECTION OF THE OBSTRUCTION. THE HORIZONTAL CABLE SHALL ATTACH TO THE FIXTURE CABLE OR PENDANT WITH A MANUFACTURER PROVIDED CABLE CLAMP AS SHOWN.

3 TYPICAL PENDANT FIXTURE MOUNTING DETAIL

SCALE: NTS

DSA File No.:
15-95

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☐ SHEET REFERENCE NOTES

General Notes

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Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

ELECTRICAL DETAILS

Drawing

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LICENSED ARCHITECT RODNEY K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: PM
Drawn By: KH
Checked By: JT
Reviewed By: JT

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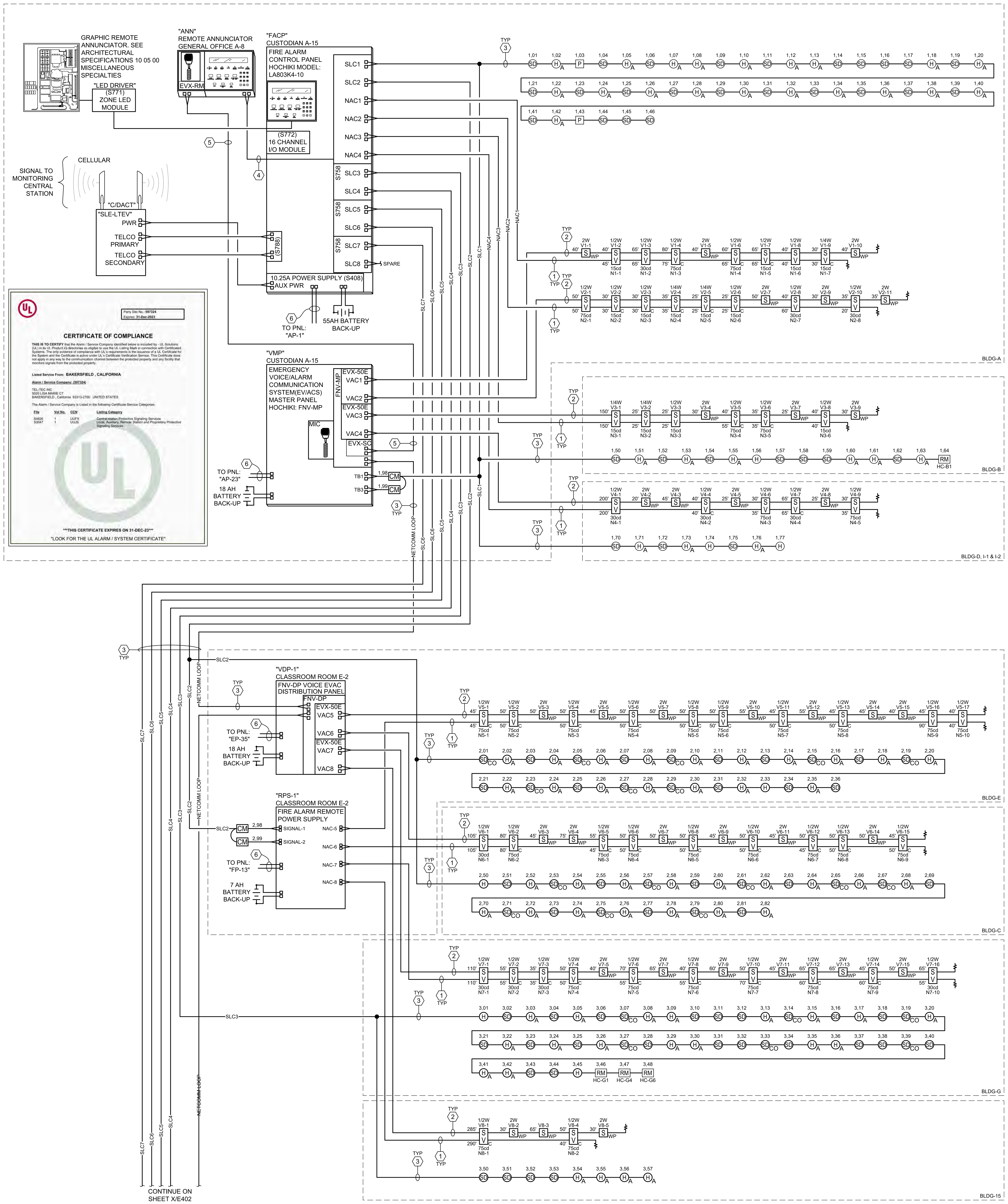
Scale: AS NOTED
Project Number: 2228
Date: 03/22/2023

X/E303



⬡ CABLING SCHEDULE

1. 1" C - (2)#12 TWISTED UNSHIELDED, WINDY CITY WIRE 7611200(INTERIOR), 723110VNQ(EXTERIOR) (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
2. 1" C -(2)#14 TWISTED SHIELDED PAIR, WINDY CITY WIRE 767920(INTERIOR), 712110VNQ(EXTERIOR), (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
3. 1" C - (2)#18 TWISTED UNSHIELDED PAIR, WINDY CITY WIRE 762360(INTERIOR), 727110VNQ(EXTERIOR) (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
4. 1" C - (6)#18 UNSHIELDED PAIR, WINDY CITY WIRE 762391(INTERIOR), (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
5. 1" C - (6)#18 SHIELDED PAIR, WINDY CITY WIRE 442351(INTERIOR), (CSFM# 7161-1727:0100) OR CABLING AS PER MANUFACTURERS RECOMMENDATIONS.
6. 120 VAC DEDICATED CIRCUIT. PROVIDE CIRCUIT BREAKER LOCKING DEVICE WITH RED HANDLE AND LABEL "FIRE ALARM CIRCUIT". SEE FLOOR PLANS AND PANEL SCHEDULES FOR CIRCUIT DESIGNATION(S).

** CONDUIT SIZE SHOWN IS MINIMUM, UNLESS OTHERWISE NOTED ON PLANS, REFER TO SITE AND FLOOR PLANS FOR ADDITIONAL FIRE ALARM CONDUIT SIZE REQUIREMENTS. EC SHALL SUBMIT CABLE MAKE/MODEL/CSFM LISTING (OR APPROVED EQUAL) WITH FIRE ALARM PROJECT DATA.

SYSTEM DESCRIPTION

INITIATING CIRCUIT CLASS: 'B'

SYSTEM TYPE: AUTOMATIC

INDICATING CIRCUIT CLASS: B STYLE: Y

THE FIRE ALARM SYSTEM SHALL BE OF A TYPE THAT UPON ACTIVATION INITIATES NOTIFICATION BY MEANS OF AND EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM (EV/ACS).

SIGNAL DEVICE CIRCUITING LEGEND

DEVICE SYMBOL → V
SIGNAL CIRCUIT # (N)NAC (V)VAC → N1 - 1 ← DEVICE #

INITIATING DEVICE CIRCUITING LEGEND

P ← DEVICE SYMBOL
SIGNAL LINE CIRCUIT # → 1,08 ← DEVICE ADDRESS NUMBER

COMPLETE AUTOMATIC FIRE ALARM SYSTEM SUBMITTAL

FIRE ALARM SYMBOLS LEGEND:

SYMBOL	MODEL #	CSFM #
(FACP)	FIRE ALARM CONTROL PANEL HOCHIKI: LA803K4-10 WITH: 8-SLC 4-NAC 16 PORTS PER BOARD MEDIA GATEWAY MODULE(S788) ZONE LED MODULE(S771)	7165-0410:0506
VMP	EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM VOICE NET MASTER PANEL HOCHIKI: FNV-MP-16R120	6911-0410:0175
ANN	REMOTE ANNUNICIATOR PANEL: HOCHIKI: L@ATITUDE NETWORK VISION ANNUNCIATOR REMOTE MICROPHONE HOCHIKI: EVX-RMR-H & EVX-SC	7165-0410:0506 6912-1446:0100
C/DACT	CELLULAR DIGITAL ALARM COMMUNICATOR TRANSMITTER HOCHIKI: STARLINK SLE-LTEV	7300-0992:0144
RPS-1	REMOTE POWER SUPPLY: HOCHIKI: FN-842-ULADA	7315-0410:0166
VDP-1	VOICE EVAC DISTRIBUTION PNL HOCHIKI: -FNV-DP-50R120	6911-0410:0175
SD	PHOTO SMOKE DETECTOR HOCHIKI: ALN-V BASE- HOCHIKI: HSB-NSA-6	7272-0410:0204 7300-0410:0132
SD CO	CO DETECTOR HOCHIKI: ACD-V BASE- HOCHIKI: HSB-NSA-6	7275-0410:0503 7300-0410:0132
H	HEAT DETECTOR HOCHIKIT: ATJ-EA BASE- HOCHIKI: HSB-NSA-6	7270-0410:0203 7300-0410:0132
P	MANUAL PULL STATION HOCHIKI: DCP-AMS-KL	7150-0410:0169
RM	RELAY CONTROL MODULE HOCHIKI: DCP-R2ML/-I	7300-0410:0150
CM	CONTROL MODULE HOCHIKI: DCP-SOM-A	7300-0410:0150
MM	MONITOR MODULE HOCHIKI: DCP-FRCME-P	7300-0410:0150
S WP	SPEAKER (WEATHER PROOF)* HOCHIKI: WSSPKR (2W EXTERIOR)	7320-0569:0141
SV (**cd) (***W)	SPEAKER/STROBES-WALL* HOCHIKI: HSSPK24WLPPR (**SIZES AS PER PLANS) (.5W INTERIOR)	7320-0410:0195
SV C (**cd) (***W)	SPEAKER/STROBES-CEILING* HOCHIKI: HSSPK24CLPPR (**SIZES AS PER PLANS) (.5W INTERIOR)	7320-0410:0194
V (**cd) (***W)	VISUAL-WALL* HOCHIKI: HES3-24PWR (**SIZES AS PER PLANS)	7125-0410-0188
V C (**cd) (***W)	VISUAL-CEILING* HOCHIKI: HCS24PCR (**SIZES AS PER PLANS)	7125-0410-0188
(EOLR)	END OF LINE RESISTER (EOLR)	–

* ENSURE NOTIFICATION DEVICES IS NOT PROVIDED WITH ANY "FIRE" MARKING OR IMPRINT ON THE DEVICE SINCE THIS DEVICE IS USED FOR BOTH FIRE NOTIFICATION AND CARBON MONOXIDE NOTIFICATION.

** DEVICE HAS MULTIPLE CANDELA RATINGS. THE E.C. IS RESPONSIBLE FOR CORRECTLY SETTING EACH STROBE OR SPEAKER/STROBE DEVICE ACCORDING TO THESE FIRE ALARM DRAWINGS.

*** DEVICE HAS MULTIPLE WATTAGE SETTINGS. THE E.C. IS RESPONSIBLE FOR CORRECTLY SETTING EACH SPEAKER OR SPEAKER/STROBE DEVICE ACCORDING TO THESE FIRE ALARM DRAWINGS.

SEQUENCE OF OPERATIONS

INITIATE HVAC SHUTDOWN	ACTIVATE VISUAL ALARM SIGNAL	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE SUPERVISORY ALARM AT FACP	ANNUNCIATE AT FIRE CONTROL REMOTE ANNUNCIATOR (alarm & trouble)	ANNUNCIATE AT FIRE CONTROL PANEL (alarm & trouble)	ANNUNCIATE AT 24-HOUR ATTENDED REMOTE LOCATION (alarm & trouble)	FUNCTION / DEVICE
YES	YES	YES	YES	YES	YES	YES	MANUAL PULL STATIONS
YES	YES	YES	YES	YES	YES	YES	SMOKE & HEAT DETECTOR
YES	YES	YES	YES	YES	YES	YES	ACD-V SMOKE/CO DETECTOR
NO	NO	NO	NO	YES	YES	YES	OPEN CIRCUIT
NO	NO	NO	NO	YES	YES	YES	NOTIFICATION APPLIANCE CKT. SHORT
NO	NO	NO	NO	YES	YES	YES	BUILDING POWER FAILURE
NO	NO	NO	NO	YES	YES	YES	EARTH GROUND FAULT
NO	NO	NO	NO	YES	YES	YES	FA SYSTEM LOW BATTERY

DSA File No.: *15-95*

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Agency Approval

GENERAL NOTES

1. ALL FIRE ALARM WIRING WITHIN NON ACCESSIBLE CEILINGS ADN WALL SHALL BE INSTALLED IN A CONDUIT OR RACEWAY SYSTEM. WIRING WITHIN ACCESSIBLE CEILING SPACE MAY BE 'OPEN WIRED' AND SUPPORTED FROM STRUCTURE.
2. 120 VAC WIRING WILL BE MINIMUM #12 AWG.
3. WIRING SHALL NOT BE LOOPED THROUGH DEVICE; WIRE MUST BE CUT FOR IN AND OUT.
4. ALL DEVICES POLARITY MUST BE OBSERVED.
5. FIRE ALARM CONDUIT AND WIRING INSTALLATION SHALL COMPLY WITH CALIFORNIA ELECTRICAL CODE #760.
6. THIS IS A COMPLETE FIRE ALARM SUBMITTAL: If an alternate system is proposed, Contractor shall submit a separate set of engineered plans, specifications, and engineering calcs. for prior approval to the Owner, Division of State Architect (DSA), Architect, and Engineer including but not necessalriy limited to:
   a. All CSFM listing numbers and Manufacturers model numbers for all system components proposed for this system.
   b. Complete Riser Diagram with point to point wiring diagrams including battery and voltage drop calculations for the entire system.
   c. Indication of conductor type(s), power-limited or non-power limited system.
   d. Information as required to demonstrate compliance with all applicable code(s) and to obtain approval of all Authority(ies) having Jurisdiction (AHJ). In the event of a substitution, installation shall not begin until separate approval has been obtained and all of the above has been accepted and signed by the (AHJ) and the Architect, see Specification Section 01631 regarding substitutions. If routing differs significantly from these plans, approval of the Engineer must be obtained before installation. After construction, provide an accurate set of field record drawings to Owner.
7. FIRE ALARM SYSTEM SHALL BE SURVIVABILITY LEVEL-0.

VOICE NOTIFICATION MESSAGE

EV/ACS SHALL HAVE THE FOLLOWING PROGRAMMED MESSAGES IN BOTH ENGLISH AND SPANISH:

-(MESSAGE TONE)"THIS IS A TEST OF THE EMERGENCY AUDIO SYSTEM."(PROVIDE A 2 SECOND PAUSE)(REPEAT THE MESSAGE.)

-(TEMPORAL 3 TONE FOLLOWED BY) "MAY I HAVE YOUR ATTENTION PLEASE! MAY I HAVE YOUR ATTENTION PLEASE! THE SIGNAL YOU JUST HEARD INDICATED A REPORT OF AN EMERGENCY IN THIS BUILDING. PLEASE PROCEED TO THE NEAREST EXIT AND LEAVE THE BUILDING. DO NOT RE-ENTER THE BUILDING UNLESS DIRECTED TO DO SO BY THE PROPER AUTHORITIES." (PROVIDE A 2 SECOND PAUSE.)(REPEAT THE MESSAGE.)

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- FIRE ALARM SYSTEM SHALL BE SUPERVISED BY AN APPROVED, UL LISTED CENTRAL STATION (UUFX) OR REMOTE STATION (UUJS) MONITORING COMPANY. (REF: CFC, 907.6.6.3)
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- THE DOCUMENTATION CABINET TO BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS". (NFPA 72, 7.7.2.4)

General Notes

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA NO. 10757 ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26
Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

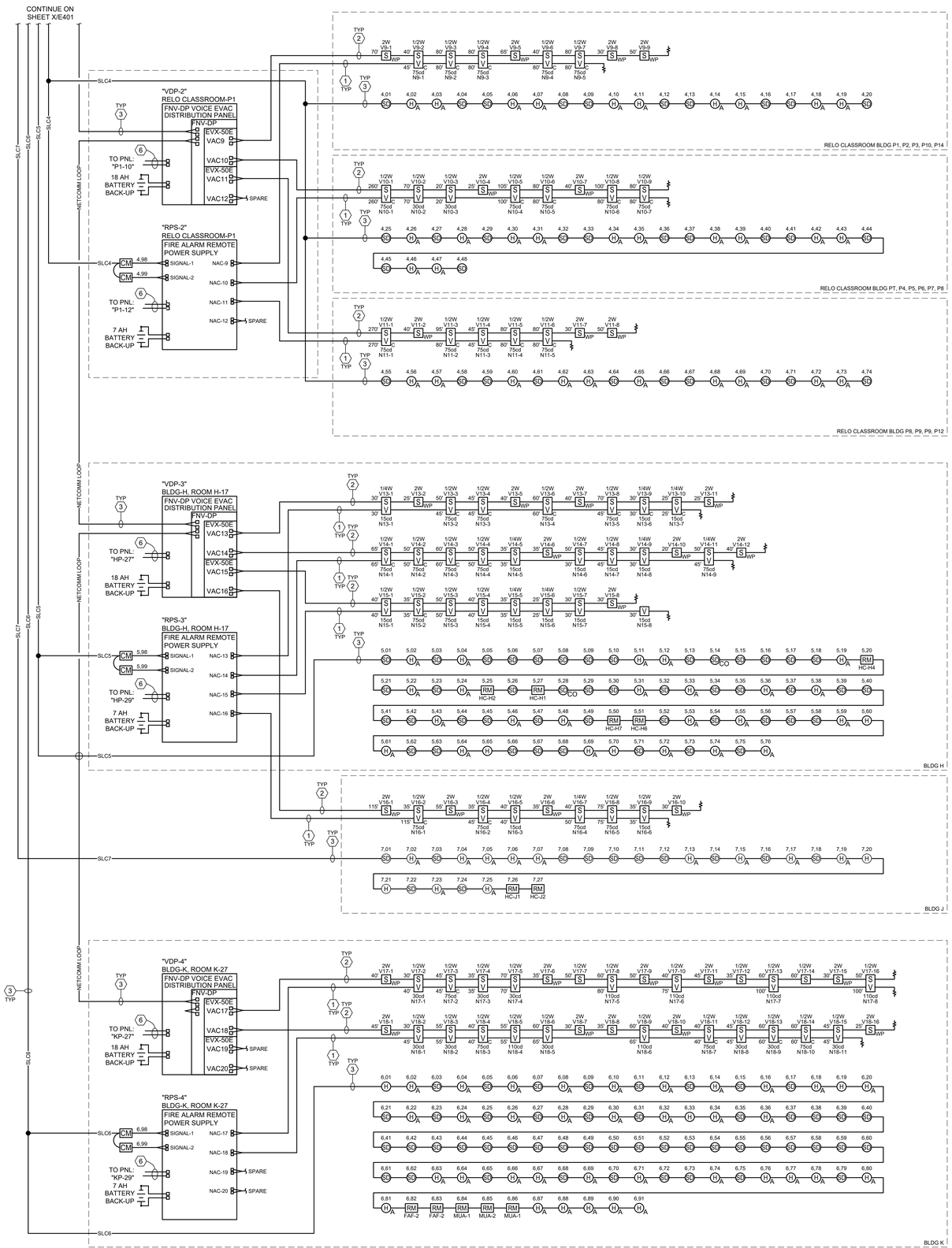
FIRE ALARM RISER DIAGRAM
Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E401
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	



GL-2 FIRE ALARM NOTES CHECKLIST:

1. APPLICABLE STANDARD NFPA 72, AS ADOPTED AND AMENDED IN CBC CHAPTER 35
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM, HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF SYSTEM INSTALLATION, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND /OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER APPROVED LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE PROJECT SPECIFICATIONS WITHIN THE FIRE ALARM SECTION.
8. WALL MOUNTED VISIBLE NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
10. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (DBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR FIVE DBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.

    2.16 APPLICABLE CODES: ENSURE THE CURRENT CODES ARE LISTED ON THE PLANS.
12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
13. VISIBLE DEVICES SHOULD NOT EXCEED TWO FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN ONE FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELLA. VISIBLE DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATER TIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
15. ALL FIRE ALARM WIRING SHALL BE FPL OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE TYPE THHN OR THWN.
16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL." CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
21. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED "SYSTEM RECORD OF COMPLETION" PER NFPA 72, FIGURE 17.8.2.
22. FIRE ALARM CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48" ABOVE THE FINISHED FLOOR.
23. MICROPHONES ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE, INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.
24. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
25. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
26. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

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Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

FIRE ALARM RISER DIAGRAM

Drawing

darden architects
ARCHITECTURE
PLANNING
INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051
LICENSED ARCHITECT RODNEY K. FERGUSON No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA
Architect

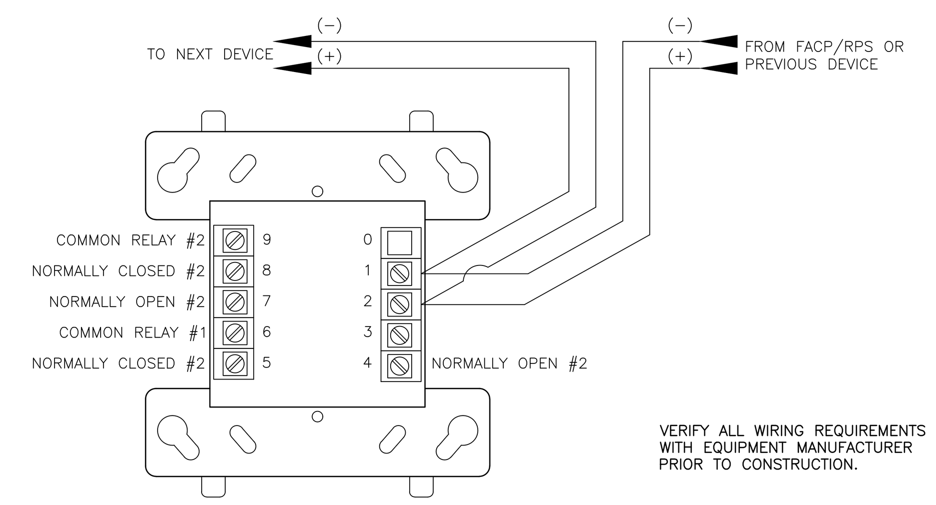
No.	Revision/Submission	Date

Revision

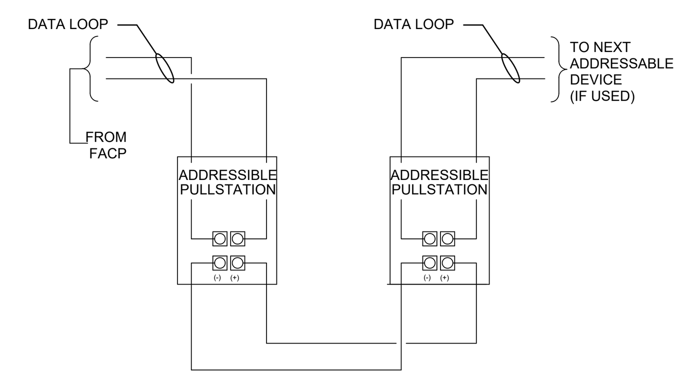
	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E402
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

SEQUENCE OF OPERATIONS

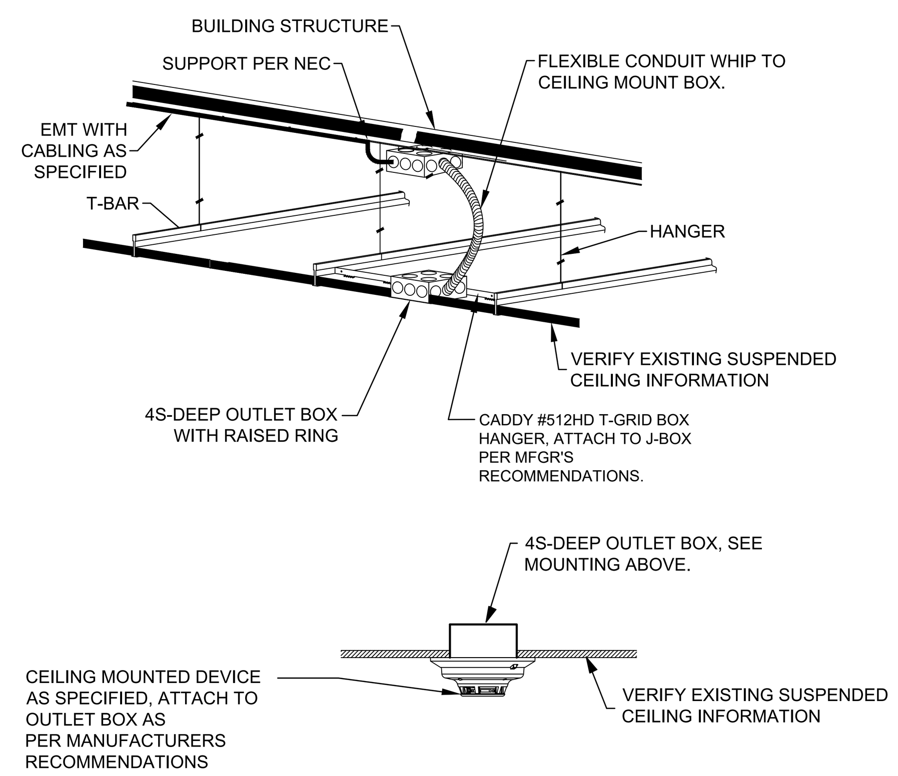
DEVICE \ FUNCTION	INITIATE HVAC SHUTDOWN	ACTIVATE VISUAL ALARM SIGNAL	ACTIVATE AUDIBLE ALARM SIGNAL	ACTIVATE SUPERVISORY ALARM AT FACP	ANNUNCIATE AT FIRE CONTROL REMOTE ANNUNCIATOR (alarm & trouble)	ANNUNCIATE AT FIRE CONTROL PANEL (alarm & trouble)	ANNUNCIATE AT 24-HOUR ATTENDED REMOTE LOCATION (alarm & trouble)
MANUAL PULL STATIONS	YES	YES	YES	YES	YES	YES	YES
SMOKE & HEAT DETECTOR	YES	YES	YES	YES	YES	YES	YES
ACD-V SMOKE/CO DETECTOR	YES	YES	YES	YES	YES	YES	YES
OPEN CIRCUIT	NO	NO	NO	NO	YES	YES	YES
NOTIFICATION APPLIANCE CKT. SHORT	NO	NO	NO	NO	YES	YES	YES
BUILDING POWER FAILURE	NO	NO	NO	NO	YES	YES	YES
EARTH GROUND FAULT	NO	NO	NO	NO	YES	YES	YES
FA SYSTEM LOW BATTERY	NO	NO	NO	NO	YES	YES	YES



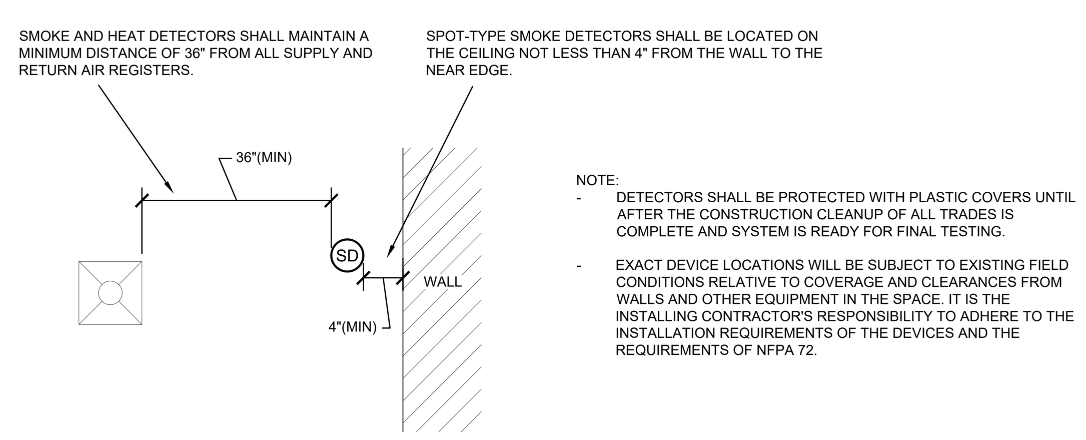
6 TYPICAL ADDRESSABLE CONTROL MODULE WIRING DIAGRAM
NTS



7 TYPICAL ADDRESSABLE PULL STATION - WIRING DIAGRAM
NTS



8 TYPICAL DEVICE MOUNTING DETAIL AT T-BAR CEILINGS
NTS



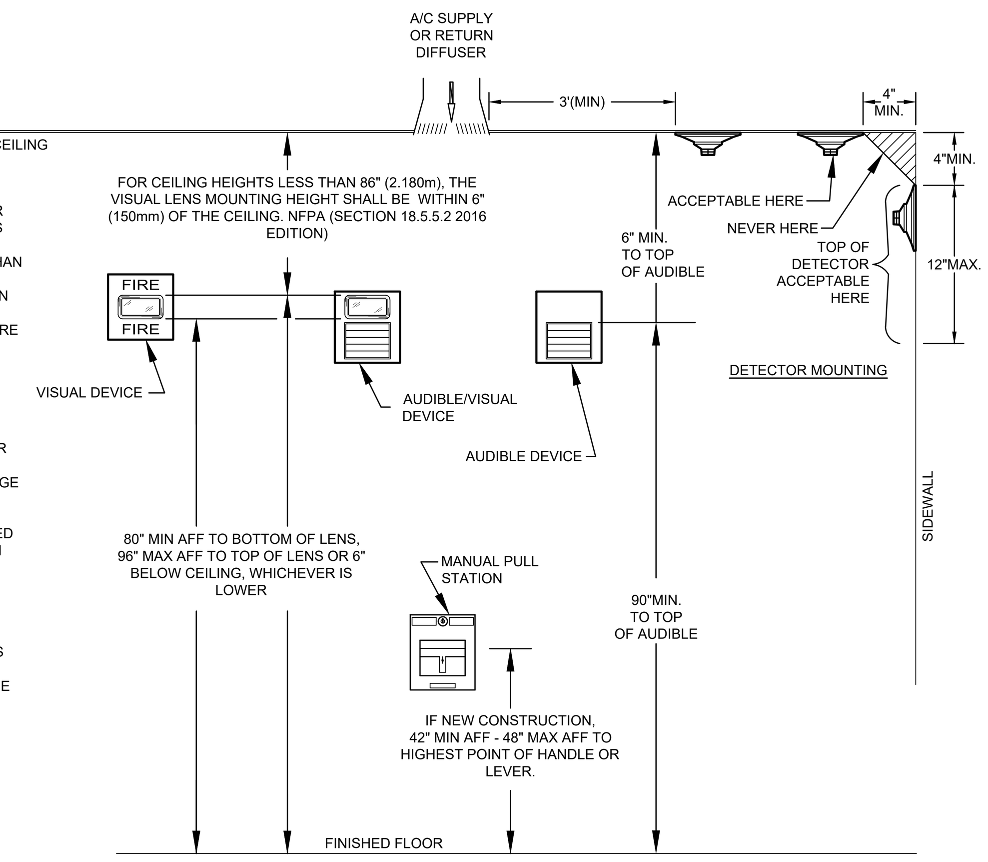
NOTE:
- DETECTORS SHALL BE PROTECTED WITH PLASTIC COVERS UNTIL AFTER THE CONSTRUCTION CLEANUP OF ALL TRADES IS COMPLETE AND SYSTEM IS READY FOR FINAL TESTING.
- EXACT DEVICE LOCATIONS WILL BE SUBJECT TO EXISTING FIELD CONDITIONS RELATIVE TO COVERAGE AND CLEARANCES FROM WALLS AND OTHER EQUIPMENT IN THE SPACE. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO ADHERE TO THE INSTALLATION REQUIREMENTS OF THE DEVICES AND THE REQUIREMENTS OF NFPA 72.

9 SMOKE DETECTOR PLACEMENT DETAIL
NTS

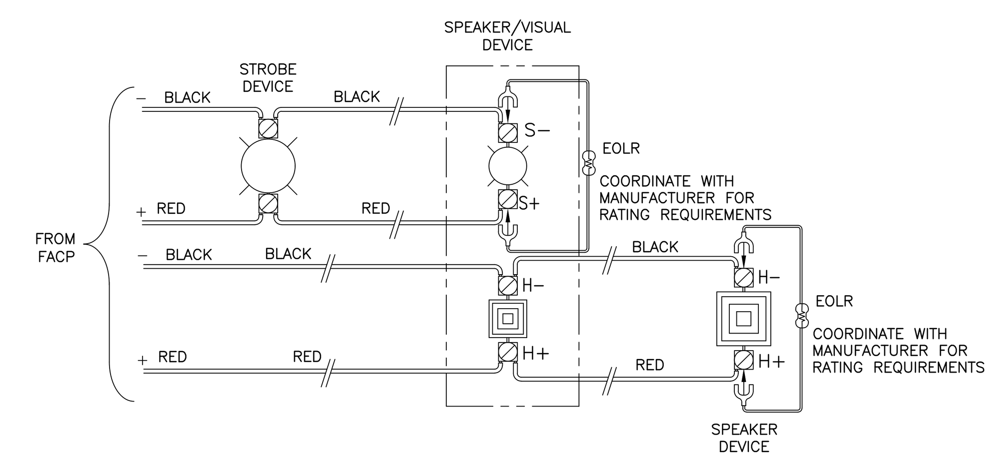
AUDIBLE DEVICES: IF CEILING HEIGHTS ALLOW, WALL MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90in.(2.29m) AND BELOW THE FINISHED CEILINGS AT HEIGHTS OF NOT LESS THAN 6in.(150mm) THIS REQUIREMENT SHALL NOT PRECLUDE CEILING-MOUNTED. NFPA 72 (SECTION 18.4.8.1, 2016 EDITION)
IF COMBINATION AUDIBLE/VISUAL APPLIANCES ARE INSTALLED, THE LOCATION OF THE INSTALLED APPLIANCE SHALL BE DETERMINED BY THE REQUIREMENTS OF NFPA 72 18.5.5. NFPA 72 (SECTION 18.4.8.3, 2016 EDITION)

VISUAL & AUDIBLE/VISUAL DEVICES:
FLASH RATE: SHALL NOT EXCEED 2 FLASHES PER SECOND (2Hz) NOR BE LESS THAN 1 FLASH PER SECOND (1Hz) THROUGHOUT THE LISTED VOLTAGE RANGE OF THE APPLIANCE. (NFPA 72 SECTION 18.5.3.1, 2016 EDITION)
WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80in.(2.03m) AND NOT GREATER THAN 96in.(2.44) ABOVE THE FINISHED FLOOR. (NFPA 72 SECTION 18.5.5.1, 2016 EDITION)

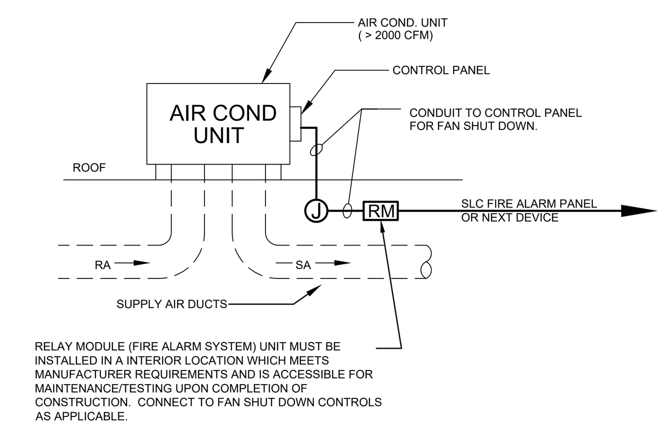
MANUAL PULL STATION: THE HEIGHT OF THE MANUAL FIRE ALARM BOXES SHALL BE NOT LESS THAN 42in.(1067mm) AND NOT MORE THAN 48in.(1372mm) MEASURED VERTICALLY, FROM THE FLOOR LEVEL TO THE HIGHEST POINT OF THE ACTIVATING HANDLE OR LEVER OF THE BOX. (2019CFC 907.4.2.2)



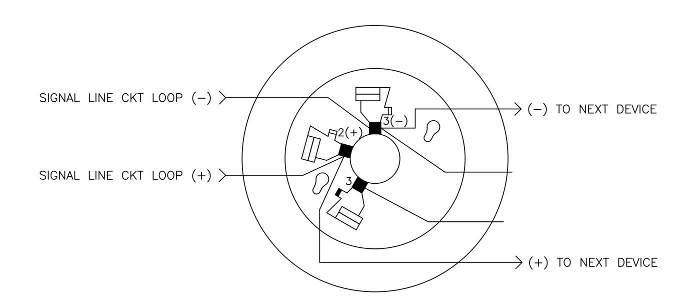
1 DEVICE ELEVATION DETAIL
NTS



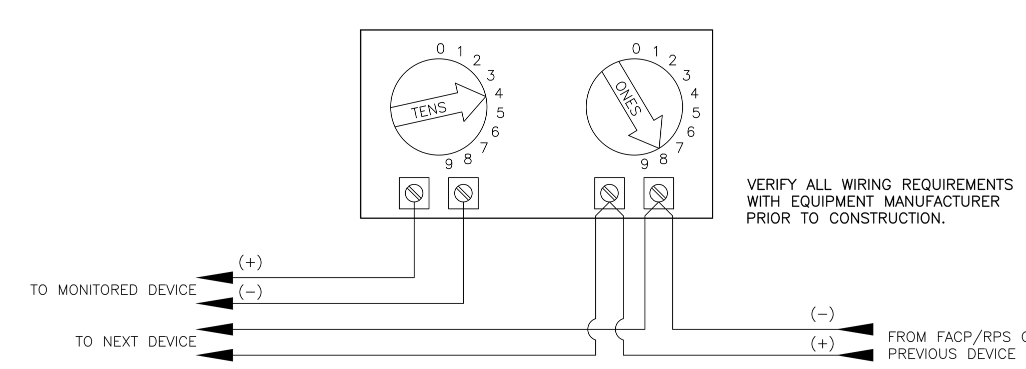
2 TYPICAL NOTIFICATION CIRCUIT WIRING DIAGRAM
NTS



3 RELAY MODULE WIRING DIAGRAM AT HVAC UNIT
SCALE: NTS



4 ADDRESSABLE SMOKE AND HEAT DETECTOR WIRING DIAGRAM
NTS



5 TYPICAL ADDRESSABLE MONITOR MODULE WIRING DIAGRAM
NTS

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

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Earl Warren Junior High School Modernization Phase 1

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Bakersfield, CA 93313
Project

FIRE ALARM DETAILS
Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
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LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E403
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

BATTERY CALCULATIONS

PROJECT: **Warren Jr High - RPS-1**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Remote Power Suppy	Gamewell-FCI	HPFF8	1	0.0900	0.090	0.1750	0.175
NAC Circuit - N5	—	—	1	0.00000	0.0000	1.63200	1.6320
NAC Circuit - N6	—	—	1	0.00000	0.0000	1.47100	1.4710
NAC Circuit - N7	—	—	1	0.00000	0.0000	0.59100	0.5910
NAC Circuit - N8	—	—	1	0.00000	0.0000	0.35200	0.3520
			0	0.0000	0.000	0.0000	0.000
				Total:	0.090	Total:	4.221
Total Standby Amps =	0.090 x	24	Hours =		2.160	Amp-Hours	
Total Alarm Amps =	4.221 x	0.25	Hours = (15 minutes)		1.055	Amp-Hours	
Total Amp-Hours required after 24 hours standby and 15 minutes alarm.					3.215	Amp-Hours	
Total Battery Amp-Hours required: Total Amp-Hours required x 1.2 =					3.86	Amp-Hours	
Total Amp-Hours Supplied=					7	Amp-Hours	
Spare Capacity=					3.142	Amp-Hours	

BATTERY CALCULATIONS

PROJECT: **Warren Jr High - VDP-1**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Voice Distribution Panel	HOCHIKI	FNV-DP	1	0.1790	0.179	0.2090	0.209
Amplifier Sub-assembly	HOCHIKI	EVX-50	2	0.1300	0.260	1.0000	2.000
**SPEAKER LOADS	————	————	———	———	0.000	——	0.000
VAC Circuit - V5	—	—	1	0.00000	0.0000	0.78900	0.7890
VAC Circuit - V6	—	—	1	0.00000	0.0000	0.74740	0.7474
VAC Circuit - V7	—	—	1	0.00000	0.0000	0.70600	0.7060
VAC Circuit - V8	—	—	1	0.00000	0.0000	0.29060	0.2906
				0.0000	0.000	0.0000	0.000
				Total:	0.439	Total:	4.742
Total Standby Amps =	0.439 x	24	Hours =		10.536	Amp-Hours	
Total Alarm Amps =	4.742 x	0.25	Hours = (15 minutes)		1.186	Amp-Hours	
Total Amp-Hours required after 24 hours standby and 5 minutes alarm.					11.722	Amp-Hours	
Total Battery Amp-Hours required: Total Amp-Hours required x 1.2 =					14.07	Amp-Hours	
Total Amp-Hours Supplied=					18	Amp-Hours	
Spare Capacity=					3.934	Amp-Hours	

BATTERY CALCULATIONS

PROJECT: **Warren Jr High - FACP**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Fire Alarm Control Pnl.	HOCHIKI	FireNET Plus	1	0.35000	0.3500	0.45000	0.4500
10.25A Power Supply	HOCHIKI	S408	1	0.08000	0.0800	0.08000	0.0800
Dual Loop Moduel	HOCHIKI	S758	3	0.11500	0.3450	0.11500	0.3450
Medial Gateway Module	HOCHIKI	S788	1	0.11400	0.1140	0.11400	0.1140
Cellular Digital Alarm Communicator Transmitter	HOCHIKI	SLE-LTEV	1	0.10000	0.1000	0.10000	0.1000
Remote Annunciator	HOCHIKI	LCD Display	1	0.34100	0.3410	0.34100	0.3410
Smoke Detector	HOCHIKI	ALN-V	209	0.00045	0.0941	0.00054	0.1129
Carbon Monoxide Detector	HOCHIKI	ACD-F	24	0.00045	0.0108	0.00720	0.1728
Heat Detector	HOCHIKI	ATJ-EA	201	0.00035	0.0704	0.00050	0.1005
Pull Station	HOCHIKI	DCP-AMS-KL	2	0.00055	0.0011	0.00066	0.0013
Monitor Module	HOCHIKI	DCP-FRCME-P	1	0.00055	0.0006	0.00066	0.0007
Relay Control Module	HOCHIKI	DCP-R2ML	15	0.00035	0.0053	0.00045	0.0068
Control Module	HOCHIKI	DCP-SOM-A	10	0.00022	0.0022	0.00600	0.0600
NAC Circuit - N1	---	---	1	0.00000	0.0000	0.62500	0.6250
NAC Circuit - N2	---	---	1	0.00000	0.0000	0.68800	0.6880
NAC Circuit - N3	---	---	1	0.00000	0.0000	0.48400	0.4840
NAC Circuit - N4	---	---	1	0.00000	0.0000	0.46300	0.4630
			0	0.00000	0.0000	0.00000	0.0000
				Total:	1.5143	Total:	4.1449
Total Standby Amps =	1.514 x	24	Hours =		36.3432	Amp-Hours	
Total Alarm Amps =	4.145 x	0.25	Hours = (15 minutes)		1.0362	Amp-Hours	
Total Amp-Hours required after 24 hours standby and 15 minutes alarm.					37.3794	Amp-Hours	
Total Battery Amp-Hours required: Total Amp-Hours required x 1.2 =					44.8553	Amp-Hours	
Total Amp-Hours Supplied=					55.0000	Amp-Hours	
Spare Capacity=					10.1447	Amp-Hours	

BATTERY CALCULATIONS

PROJECT: **Warren Jr High - RPS-2**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Remote Power Suppy	Gamewell-FCI	HPFF8	1	0.0900	0.090	0.1750	0.175
NAC Circuit - N9	—	—	1	0.00000	0.0000	0.88000	0.8800
NAC Circuit - N10	—	—	1	0.00000	0.0000	1.00600	1.0060
NAC Circuit - N11	—	—	1	0.00000	0.0000	0.88000	0.8800
NAC Circuit - N12 (Spare	—	—	0	0.00000	0.0000	0.00000	0.0000
			0	0.0000	0.000	0.0000	0.000
				Total:	0.090	Total:	2.941
Total Standby Amps =	0.090 x	24	Hours =		2.160	Amp-Hours	
Total Alarm Amps =	2.941 x	0.25	Hours = (15 minutes)		0.735	Amp-Hours	
Total Amp-Hours required after 24 hours standby and 15 minutes alarm.					2.895	Amp-Hours	
Total Battery Amp-Hours required: Total Amp-Hours required x 1.2 =					3.47	Amp-Hours	
Total Amp-Hours Supplied=					7	Amp-Hours	
Spare Capacity=					3.526	Amp-Hours	

BATTERY CALCULATIONS

PROJECT: **Warren Jr High - VDP-2**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Voice Distribution Panel	HOCHIKI	FNV-DP	1	0.1790	0.179	0.2090	0.209
Amplifier Sub-assembly	HOCHIKI	EVX-50	2	0.1300	0.260	1.0000	2.000
**SPEAKER LOADS	————	————	———	———	0.000	——	0.000
VAC Circuit - V9	—	—	1	0.00000	0.0000	0.43600	0.4360
VAC Circuit - V10	—	—	1	0.00000	0.0000	0.31160	0.3116
VAC Circuit - V11	—	—	1	0.00000	0.0000	0.35300	0.3530
VAC Circuit - V12 (Spare	—	—	0	0.00000	0.0000	0.00000	0.0000
				0.0000	0.000	0.0000	0.000
				Total:	0.439	Total:	3.310
Total Standby Amps =	0.439 x	24	Hours =		10.536	Amp-Hours	
Total Alarm Amps =	3.310 x	0.25	Hours = (15 minutes)		0.827	Amp-Hours	
Total Amp-Hours required after 24 hours standby and 5 minutes alarm.					11.363	Amp-Hours	
Total Battery Amp-Hours required: Total Amp-Hours required x 1.2 =					13.64	Amp-Hours	
Total Amp-Hours Supplied=					18	Amp-Hours	
Spare Capacity=					4.364	Amp-Hours	

BATTERY CALCULATIONS

PROJECT: **Warren Jr High - VMP**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Voice Master Panel	HOCHIKI	FNV-MP	1	0.2252	0.225	0.2550	0.255
Amplifier Sub-assembly	HOCHIKI	EVX-50	2	0.1300	0.260	1.0000	2.000
Remote Microphone	EVAX	EVX-RM	1	0.02000	0.0200	0.04000	0.0400
-Mic Supervisor Card	EVAX	EVX-SC	1	0.03000	0.0300	0.05000	0.0500
**SPEAKER LOADS	---------------	---------------	--------	---------	0.000	------	0.000
VAC Circuit - V1	---	---	1	0.00000	0.0000	0.38420	0.3842
VAC Circuit - V2	---	---	1	0.00000	0.0000	0.39460	0.3946
VAC Circuit - V3	---	---	1	0.00000	0.0000	0.35300	0.3530
VAC Circuit - V4	---	---	1	0.00000	0.0000	0.43600	0.4360
				0.0000	0.000	0.0000	0.000
				Total:	0.535	Total:	3.913
Total Standby Amps =	0.535 x	24	Hours =		12.845	Amp-Hours	
Total Alarm Amps =	3.913 x	0.25	Hours = (15 minutes)		0.978	Amp-Hours	
Total Amp-Hours required after 24 hours standby and 5 minutes alarm.					13.823	Amp-Hours	
Total Battery Amp-Hours required: Total Amp-Hours required x 1.2 =					16.59	Amp-Hours	
Total Amp-Hours Supplied=					18	Amp-Hours	
Spare Capacity=					1.412	Amp-Hours	

BATTERY CALCULATIONS

PROJECT: **Warren Jr High - RPS-3**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Remote Power Suppy	Gamewell-FCI	HPFF8	1	0.0900	0.090	0.1750	0.175
NAC Circuit - N13	—	—	1	0.00000	0.0000	0.88100	0.8810
NAC Circuit - N14	—	—	1	0.00000	0.0000	0.94800	0.9480
NAC Circuit - N15	—	—	1	0.00000	0.0000	0.48300	0.4830
NAC Circuit - N16	—	—	1	0.00000	0.0000	0.64200	0.6420
			0	0.0000	0.000	0.0000	0.000
				Total:	0.090	Total:	3.129
Total Standby Amps =	0.090 x	24	Hours =		2.160	Amp-Hours	
Total Alarm Amps =	3.129 x	0.25	Hours = (15 minutes)		0.782	Amp-Hours	
Total Amp-Hours required after 24 hours standby and 15 minutes alarm.					2.942	Amp-Hours	
Total Battery Amp-Hours required: Total Amp-Hours required x 1.2 =					3.53	Amp-Hours	
Total Amp-Hours Supplied=					7	Amp-Hours	
Spare Capacity=					3.469	Amp-Hours	

BATTERY CALCULATIONS

PROJECT: **Warren Jr High - VDP-3**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Voice Distribution Panel	HOCHIKI	FNV-DP	1	0.1790	0.179	0.2090	0.209
Amplifier Sub-assembly	HOCHIKI	EVX-50	2	0.1300	0.260	1.0000	2.000
**SPEAKER LOADS	————	————	———	———	0.000	——	0.000
VAC Circuit - V13	—	—	1	0.00000	0.0000	0.44640	0.4464
VAC Circuit - V14	—	—	1	0.00000	0.0000	0.41540	0.4154
VAC Circuit - V15	—	—	1	0.00000	0.0000	0.22860	0.2286
VAC Circuit - V16	—	—	1	0.00000	0.0000	0.45680	0.4568
				0.0000	0.000	0.0000	0.000
				Total:	0.439	Total:	3.756
Total Standby Amps =	0.439 x	24	Hours =		10.536	Amp-Hours	
Total Alarm Amps =	3.756 x	0.25	Hours = (15 minutes)		0.939	Amp-Hours	
Total Amp-Hours required after 24 hours standby and 5 minutes alarm.					11.475	Amp-Hours	
Total Battery Amp-Hours required: Total Amp-Hours required x 1.2 =					13.77	Amp-Hours	
Total Amp-Hours Supplied=					18	Amp-Hours	
Spare Capacity=					4.230	Amp-Hours	

BATTERY CALCULATIONS

PROJECT: **Warren Jr High - RPS-4**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Remote Power Suppy	Gamewell-FCI	HPFF8	1	0.0900	0.090	0.1750	0.175
NAC Circuit - N17	—	—	1	0.00000	0.0000	0.90900	0.9090
NAC Circuit - N18	—	—	1	0.00000	0.0000	1.20300	1.2030
NAC Circuit - N19 (Spare	—	—	0	0.00000	0.0000	0.00000	0.0000
NAC Circuit - N20 (Spare	—	—	0	0.00000	0.0000	0.00000	0.0000
			0	0.0000	0.000	0.0000	0.000
				Total:	0.090	Total:	2.287
Total Standby Amps =	0.090 x	24	Hours =		2.160	Amp-Hours	
Total Alarm Amps =	2.287 x	0.25	Hours = (15 minutes)		0.572	Amp-Hours	
Total Amp-Hours required after 24 hours standby and 15 minutes alarm.					2.732	Amp-Hours	
Total Battery Amp-Hours required: Total Amp-Hours required x 1.2 =					3.28	Amp-Hours	
Total Amp-Hours Supplied=					7	Amp-Hours	
Spare Capacity=					3.722	Amp-Hours	

BATTERY CALCULATIONS

PROJECT: **Warren Jr High - VDP-4**
Based on 24 Hour Standby

Device	Manufacturer	#	QTY	Standby Amps	Total Standby Amps	Alarm Amps	Total Alarm Amps
Voice Distribution Panel	HOCHIKI	FNV-DP	1	0.1790	0.179	0.2090	0.209
Amplifier Sub-assembly	HOCHIKI	EVX-50	2	0.1300	0.260	1.0000	2.000
**SPEAKER LOADS	————	————	———	———	0.000	——	0.000
VAC Circuit - V17	—	—	1	0.00000	0.0000	0.64380	0.6438
VAC Circuit - V18	—	—	1	0.00000	0.0000	0.58160	0.5816
VAC Circuit - V19 (Spare	—	—	0	0.00000	0.0000	0.00000	0.0000
VAC Circuit - V20 (Spare	—	—	0	0.00000	0.0000	0.00000	0.0000
				0.0000	0.000	0.0000	0.000
				Total:	0.439	Total:	3.434
Total Standby Amps =	0.439 x	24	Hours =		10.536	Amp-Hours	
Total Alarm Amps =	3.434 x	0.25	Hours = (15 minutes)		0.859	Amp-Hours	
Total Amp-Hours required after 24 hours standby and 5 minutes alarm.					11.395	Amp-Hours	
Total Battery Amp-Hours required: Total Amp-Hours required x 1.2 =					13.67	Amp-Hours	
Total Amp-Hours Supplied=					18	Amp-Hours	
Spare Capacity=					4.326	Amp-Hours	

DSA File No.: *15-95*

DSA Application No.: *03-122615*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

General Notes

THOMA ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA NO. 10757 ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26
THOMA #22-8087

Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

FIRE ALARM CALCULATIONS

Drawing

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LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

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	Designed By: PM	Copyright 2022 Darden Architects
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Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N14

CKT/DEVICE #	N14-1	N14-2	N14-3	N14-4	N14-5	N14-6	N14-7	N14-8	N14-9	N14-10
DEVICE	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V15cd	S/V15cd	S/V15cd	S/V15cd	S/V75cd	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	65	50	60	50	35	30	45	30	45	0
AMPS @ DEVICE	0.176	0.176	0.176	0.176	0.033	0.033	0.033	0.033	0.112	0
AMPS DEVELOPED	0.948	0.772	0.596	0.42	0.244	0.211	0.178	0.145	0.112	0
VOLT. DROP	0.196	0.123	0.114	0.067	0.027	0.020	0.025	0.014	0.016	0.000

CKT/DEVICE #	N14-11	N14-12	N14-13	N14-14	N14-15	N14-16	N14-17	N14-18	N14-19	N14-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N14
TOTAL CKT AMPS.=	0.948
CIRCUIT LENGTH =	410FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.602
VOLTAGE AT FINAL DEVICE=	19.798
% VOLTAGE DROP=	2.950

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N9

CKT/DEVICE #	N9-1	N9-2	N9-3	N9-4	N9-5	N9-6	N9-7	N9-8	N9-9	N9-10
DEVICE	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	45	80	80	80	80	0	0	0	0	0
AMPS @ DEVICE	0.176	0.176	0.176	0.176	0.176	0	0	0	0	0
AMPS DEVELOPED	0.88	0.704	0.528	0.352	0.176	0	0	0	0	0
VOLT. DROP	0.126	0.179	0.134	0.090	0.045	0.000	0.000	0.000	0.000	0.000

CKT/DEVICE #	N9-11	N9-12	N9-13	N9-14	N9-15	N9-16	N9-17	N9-18	N9-19	N9-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N9
TOTAL CKT AMPS.=	0.88
CIRCUIT LENGTH =	365FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.574
VOLTAGE AT FINAL DEVICE=	19.826
% VOLTAGE DROP=	2.812

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N5

CKT/DEVICE #	N5-1	N5-2	N5-3	N5-4	N5-5	N5-6	N5-7	N5-8	N5-9	N5-10
DEVICE	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd	S/V75cd
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	45	50	50	50	50	50	50	50	90	40
AMPS @ DEVICE	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.112	0.112
AMPS DEVELOPED	1.632	1.456	1.28	1.104	0.928	0.752	0.576	0.4	0.224	0.112
VOLT. DROP	0.234	0.232	0.204	0.176	0.148	0.120	0.092	0.064	0.064	0.014

CKT/DEVICE #	N5-11	N5-12	N5-13	N5-14	N5-15	N5-16	N5-17	N5-18	N5-19	N5-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N5
TOTAL CKT AMPS.=	1.632
CIRCUIT LENGTH =	525FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	1.345
VOLTAGE AT FINAL DEVICE=	19.055
% VOLTAGE DROP=	6.592

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N1

CKT/DEVICE #	N1-1	N1-2	N1-3	N1-4	N1-5	N1-6	N1-7	N1-8	N1-9	N1-10
DEVICE	S/V15cd	S/V30cd	S/V75cd-C	S/V75cd-C	S/V15cd-C	S/V15cd	S/V15cd-C	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	45	65	75	65	65	40	30	0	0	0
AMPS @ DEVICE	0.033	0.063	0.176	0.176	0.072	0.033	0.072	0	0	0
AMPS DEVELOPED	0.625	0.592	0.529	0.353	0.177	0.105	0.072	0	0	0
VOLT. DROP	0.089	0.122	0.126	0.073	0.037	0.013	0.007	0.000	0.000	0.000

CKT/DEVICE #	N1-11	N1-12	N1-13	N1-14	N1-15	N1-16	N1-17	N1-18	N1-19	N1-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N1
TOTAL CKT AMPS.=	0.625
CIRCUIT LENGTH =	385FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.468
VOLTAGE AT FINAL DEVICE=	19.932
% VOLTAGE DROP=	2.293

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N15

CKT/DEVICE #	N15-1	N15-2	N15-3	N15-4	N15-5	N15-6	N15-7	N15-8	N15-9	N15-10
DEVICE	S/V15cd	S/V75cd-C	S/V75cd	S/V15cd	S/V15cd	S/V15cd	S/V15cd	V15cd		0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	40	35	50	40	35	25	30	30	0	0
AMPS @ DEVICE	0.033	0.176	0.112	0.033	0.033	0.033	0.033	0.03	0	0
AMPS DEVELOPED	0.483	0.45	0.274	0.162	0.129	0.096	0.063	0.03	0	0
VOLT. DROP	0.061	0.050	0.044	0.021	0.014	0.008	0.006	0.003	0.000	0.000

CKT/DEVICE #	N15-11	N15-12	N15-13	N15-14	N15-15	N15-16	N15-17	N15-18	N15-19	N15-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N15
TOTAL CKT AMPS.=	0.483
CIRCUIT LENGTH =	285FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.207
VOLTAGE AT FINAL DEVICE=	20.193
% VOLTAGE DROP=	1.013

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N10

CKT/DEVICE #	N10-1	N10-2	N10-3	N10-4	N10-5	N10-6	N10-7	N10-8	N10-9	N10-10
DEVICE	S/V75cd-C	S/V30cd	S/V30cd	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	260	70	20	100	80	80	80	0	0	0
AMPS @ DEVICE	0.176	0.063	0.063	0.176	0.176	0.176	0.176	0	0	0
AMPS DEVELOPED	1.006	0.83	0.767	0.704	0.528	0.352	0.176	0	0	0
VOLT. DROP	0.832	0.185	0.049	0.224	0.134	0.090	0.045	0.000	0.000	0.000

CKT/DEVICE #	N10-11	N10-12	N10-13	N10-14	N10-15	N10-16	N10-17	N10-18	N10-19	N10-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N10
TOTAL CKT AMPS.=	1.006
CIRCUIT LENGTH =	690FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	1.558
VOLTAGE AT FINAL DEVICE=	18.842
% VOLTAGE DROP=	7.636

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N6

CKT/DEVICE #	N6-1	N6-2	N6-3	N6-4	N6-5	N6-6	N6-7	N6-8	N6-9	N6-10
DEVICE	S/V30cd	S/V30cd	S/V30cd	S/V30cd	S/V30cd	S/V30cd	S/V30cd	S/V30cd	S/V30cd	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	105	80	45	50	50	50	45	50	50	0
AMPS @ DEVICE	0.063	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0
AMPS DEVELOPED	1.471	1.408	1.232	1.056	0.88	0.704	0.528	0.352	0.176	0
VOLT. DROP	0.491	0.358	0.176	0.168	0.140	0.112	0.076	0.056	0.028	0.000

CKT/DEVICE #	N6-11	N6-12	N6-13	N6-14	N6-15	N6-16	N6-17	N6-18	N6-19	N6-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	40	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N6
TOTAL CKT AMPS.=	1.471
CIRCUIT LENGTH =	565FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	1.605
VOLTAGE AT FINAL DEVICE=	18.795
% VOLTAGE DROP=	7.867

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N2

CKT/DEVICE #	N2-1	N2-2	N2-3	N2-4	N2-5	N2-6	N2-7	N2-8	N2-9	N2-10
DEVICE	S/V15cd	S/V30cd	S/V75cd-C	S/V75cd-C	S/V15cd-C	S/V15cd-C	S/V30cd	S/V30cd	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	50	30	30	35	25	25	60	20	0	0
AMPS @ DEVICE	0.033	0.063	0.176	0.176	0.072	0.033	0.072	0.063	0	0
AMPS DEVELOPED	0.688	0.655	0.592	0.416	0.24	0.168	0.135	0.063	0	0
VOLT. DROP	0.109	0.062	0.056	0.046	0.019	0.013	0.026	0.004	0.000	0.000

CKT/DEVICE #	N2-11	N2-12	N2-13	N2-14	N2-15	N2-16	N2-17	N2-18	N2-19	N2-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N2
TOTAL CKT AMPS.=	0.688
CIRCUIT LENGTH =	275FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.337
VOLTAGE AT FINAL DEVICE=	20.063
% VOLTAGE DROP=	1.651

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N16

CKT/DEVICE #	N16-1	N16-2	N16-3	N16-4	N16-5	N16-6	N16-7	N16-8	N16-9	N16-10
DEVICE	S/V75cd-C	S/V75cd-C	S/V15cd	S/V15cd	S/V75cd	0	0	0		0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	115	45	40	50	75	0	0	0	0	0
AMPS @ DEVICE	0.176	0.176	0.033	0.112	0.033	0	0	0	0	0
AMPS DEVELOPED	0.53	0.354	0.178	0.145	0.033	0	0	0	0	0
VOLT. DROP	0.194	0.051	0.023	0.023	0.008	0.000	0.000	0.000	0.000	0.000

CKT/DEVICE #	N16-11	N16-12	N16-13	N16-14	N16-15	N16-16	N16-17	N16-18	N16-19	N16-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N16
TOTAL CKT AMPS.=	0.53
CIRCUIT LENGTH =	325FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.298
VOLTAGE AT FINAL DEVICE=	20.102
% VOLTAGE DROP=	1.461

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N11

CKT/DEVICE #	N11-1	N11-2	N11-3	N11-4	N11-5	N11-6	N11-7	N11-8	N11-9	N11-10
DEVICE	S/V75cd-C	S/V30cd	S/V30cd	S/V75cd-C	S/V75cd-C	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	270	80	45	80	80	0	0	0	0	0
AMPS @ DEVICE	0.176	0.176	0.176	0.176	0.176	0	0	0	0	0
AMPS DEVELOPED	0.88	0.704	0.528	0.352	0.176	0	0	0	0	0
VOLT. DROP	0.756	0.179	0.076	0.090	0.045	0.000	0.000	0.000	0.000	0.000

CKT/DEVICE #	N11-11	N11-12	N11-13	N11-14	N11-15	N11-16	N11-17	N11-18	N11-19	N11-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N11
TOTAL CKT AMPS.=	0.88
CIRCUIT LENGTH =	555FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	1.145
VOLTAGE AT FINAL DEVICE=	19.255
% VOLTAGE DROP=	5.611

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N7

CKT/DEVICE #	N7-1	N7-2	N7-3	N7-4	N7-5	N7-6	N7-7	N7-8	N7-9	N7-10
DEVICE	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	45	80	80	80	80	0	0	0	0	0
AMPS @ DEVICE	0.063	0.088	0.088	0.176	0.176	0	0	0	0	0
AMPS DEVELOPED	0.591	0.528	0.44	0.352	0.176	0	0	0	0	0
VOLT. DROP	0.085	0.134	0.112	0.090	0.045	0.000	0.000	0.000	0.000	0.000

CKT/DEVICE #	N7-11	N7-12	N7-13	N7-14	N7-15	N7-16	N7-17	N7-18	N7-19	N7-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N7
TOTAL CKT AMPS.=	0.591
CIRCUIT LENGTH =	365FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.465
VOLTAGE AT FINAL DEVICE=	19.935
% VOLTAGE DROP=	2.280

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N3

CKT/DEVICE #	N3-1	N3-2	N3-3	N3-4	N3-5	N3-6	N3-7	N3-8	N3-9	N3-10
DEVICE	S/V15cd	S/V15cd	S/V15cd	S/V75cd-C	S/V75cd-C	S/V15cd	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	150	25	25	55	35	40	0	0	0	0
AMPS @ DEVICE	0.033	0.033	0.033	0.176	0.176	0.033	0	0	0	0
AMPS DEVELOPED	0.484	0.451	0.418	0.385	0.209	0.033	0	0	0	0
VOLT. DROP	0.231	0.036	0.033	0.067	0.023	0.004	0.000	0.000	0.000	0.000

CKT/DEVICE #	N3-11	N3-12	N3-13	N3-14	N3-15	N3-16	N3-17	N3-18	N3-19	N3-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N3
TOTAL CKT AMPS.=	0.484
CIRCUIT LENGTH =	330FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.395
VOLTAGE AT FINAL DEVICE=	20.005
% VOLTAGE DROP=	1.935

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N17

CKT/DEVICE #	N17-1	N17-2	N17-3	N17-4	N17-5	N17-6	N17-7	N17-8	N17-9	N17-10
DEVICE	S/V30cd	S/V75cd-C	S/V30cd	S/V30cd	S/V110cd	S/V110cd	S/V110cd	S/V110cd	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	40	45	35	70	80	75	100	100	0	0
AMPS @ DEVICE	0.063	0.176	0.063	0.063	0.136	0.136	0.136	0.136	0	0
AMPS DEVELOPED	0.909	0.846	0.67	0.607	0.544	0.408	0.272	0.136	0	0
VOLT. DROP	0.116	0.121	0.075	0.135	0.138	0.097	0.086	0.043	0.000	0.000

CKT/DEVICE #	N17-11	N17-12	N17-13	N17-14	N17-15	N17-16	N17-17	N17-18	N17-19	N17-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N17
TOTAL CKT AMPS.=	0.909
CIRCUIT LENGTH =	545FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.812
VOLTAGE AT FINAL DEVICE=	19.588
% VOLTAGE DROP=	3.980

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N13

CKT/DEVICE #	N13-1	N13-2	N13-3	N13-4	N13-5	N13-6	N13-7	N13-8	N13-9	N13-10
DEVICE	S/V15cd	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V75cd-C	S/V15cd-C	S/V15cd-C	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	30	45	45	60	45	30	25	0	0	0
AMPS @ DEVICE	0.033	0.176	0.176	0.176	0.176	0.072	0.072	0	0	0
AMPS DEVELOPED	0.881	0.848	0.672	0.496	0.32	0.144	0.072	0	0	0
VOLT. DROP	0.084	0.121	0.096	0.095	0.046	0.014	0.006	0.000	0.000	0.000

CKT/DEVICE #	N13-11	N13-12	N13-13	N13-14	N13-15	N13-16	N13-17	N13-18	N13-19	N13-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N13
TOTAL CKT AMPS.=	0.881
CIRCUIT LENGTH =	280FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.461
VOLTAGE AT FINAL DEVICE=	19.939
% VOLTAGE DROP=	2.262

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N8

CKT/DEVICE #	N8-1	N8-2	N8-3	N8-4	N8-5	N8-6	N8-7	N8-8	N8-9	N8-10
DEVICE	S/V75cd-C	S/V75cd-C	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	290	40	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0.176	0.176	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0.352	0.176	0	0	0	0	0	0	0	0
VOLT. DROP	0.325	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

CKT/DEVICE #	N8-11	N8-12	N8-13	N8-14	N8-15	N8-16	N8-17	N8-18	N8-19	N8-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	40	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N8
TOTAL CKT AMPS.=	0.352
CIRCUIT LENGTH =	370FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.347
VOLTAGE AT FINAL DEVICE=	20.053
% VOLTAGE DROP=	1.701

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N4

CKT/DEVICE #	N4-1	N4-2	N4-3	N4-4	N4-5	N4-6	N4-7	N4-8	N4-9	N4-10
DEVICE	S/V30cd	S/V30cd-C	S/V75cd	S/V30cd-C	S/V75cd	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	200	40	35	65	35	0	0	0	0	0
AMPS @ DEVICE	0.063	0.088	0.112	0.088	0.112	0	0	0	0	0
AMPS DEVELOPED	0.463	0.4	0.312	0.2	0.112	0	0	0	0	0
VOLT. DROP	0.294	0.051	0.035	0.041	0.012	0.000	0.000	0.000	0.000	0.000

CKT/DEVICE #	N4-11	N4-12	N4-13	N4-14	N4-15	N4-16	N4-17	N4-18	N4-19	N4-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N4
TOTAL CKT AMPS.=	0.463
CIRCUIT LENGTH =	375FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.434
VOLTAGE AT FINAL DEVICE=	19.966
% VOLTAGE DROP=	2.127

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

General Notes

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Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

FIRE ALARM CALCULATIONS

Drawing

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Ren. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E405
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V13

CKT/DEVICE #	V13-1	V13-2	V13-3	V13-4	V13-5	V13-6	V13-7	V13-8	V13-9	V13-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	30	25	50	45	40	60	40	70	30	25
AMPS @ DEVICE	0.0104	0.083	0.0208	0.0208	0.083	0.0208	0.083	0.0208	0.0104	0.0104
AMPS DEVELOPED	0.4464	0.436	0.353	0.3322	0.3114	0.2284	0.2076	0.1246	0.1038	0.0934
VOLT. DROP	0.067	0.055	0.089	0.075	0.063	0.069	0.042	0.044	0.016	0.012

CKT/DEVICE #	V13-11	V13-12	V13-13	V13-14	V13-15	V13-16	V13-17	V13-18	V13-19	V13-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	25	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0.083	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0.083	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V13
TOTAL CKT AMPS.=	0.4464 (10.71W)
CIRCUIT LENGTH =	440FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.542
VOLTAGE AT FINAL DEVICE=	19.858
% VOLTAGE DROP=	2.658

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V8

CKT/DEVICE #	V8-1	V8-2	V8-3	V8-4	V8-5	V8-6	V8-7	V8-8	V8-9	V8-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	285	30	65	50	30	0	0	0	0	0
AMPS @ DEVICE	0.0208	0.083	0.083	0.0208	0.083	0	0	0	0	0
AMPS DEVELOPED	0.2906	0.2698	0.1868	0.1038	0.083	0	0	0	0	0
VOLT. DROP	0.417	0.041	0.061	0.026	0.013	0.000	0.000	0.000	0.000	0.000

CKT/DEVICE #	V8-11	V8-12	V8-13	V8-14	V8-15	V8-16	V8-17	V8-18	V8-19	V8-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V8
TOTAL CKT AMPS.=	0.2906 (6.97W)
CIRCUIT LENGTH =	460FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.558
VOLTAGE AT FINAL DEVICE=	19.842
% VOLTAGE DROP=	2.736

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V4

CKT/DEVICE #	V4-1	V4-2	V4-3	V4-4	V4-5	V4-6	V4-7	V4-8	V4-9	V4-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	200	20	45	40	25	30	65	25	30	0
AMPS @ DEVICE	0.0208	0.083	0.083	0.0208	0.083	0.0208	0.0208	0.083	0.0208	0
AMPS DEVELOPED	0.436	0.4152	0.3322	0.2492	0.2284	0.1454	0.1246	0.1038	0.0208	0
VOLT. DROP	0.439	0.042	0.075	0.050	0.029	0.022	0.041	0.013	0.003	0.000

CKT/DEVICE #	V4-11	V4-12	V4-13	V4-14	V4-15	V4-16	V4-17	V4-18	V4-19	V4-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V4
TOTAL CKT AMPS.=	0.436 (10.46W)
CIRCUIT LENGTH =	480FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.715
VOLTAGE AT FINAL DEVICE=	19.685
% VOLTAGE DROP=	3.504

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
NAC/VISUAL SIG CKT#	N18

CKT/DEVICE #	N18-1	N18-2	N18-3	N18-4	N18-5	N18-6	N18-7	N18-8	N18-9	N18-10
DEVICE	S/V30cd	S/V75cd-C	S/V30cd	S/V30cd	S/V110cd	S/V110cd	0	0		0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	45	55	40	55	65	65	40	45	60	60
AMPS @ DEVICE	0.063	0.063	0.176	0.136	0.063	0.136	0.176	0.063	0.088	0.176
AMPS DEVELOPED	1.203	1.14	1.077	0.901	0.765	0.702	0.566	0.39	0.327	0.239
VOLT. DROP	0.172	0.199	0.137	0.158	0.158	0.145	0.072	0.056	0.062	0.046

CKT/DEVICE #	N18-11	N18-12	N18-13	N18-14	N18-15	N18-16	N18-17	N18-18	N18-19	N18-20
DEVICE	0	0	0	0	0	0	0	0	0	0
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	45	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0.063	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0.063	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	N18
TOTAL CKT AMPS.=	1.203
CIRCUIT LENGTH =	575FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	1.214
VOLTAGE AT FINAL DEVICE=	19.186
% VOLTAGE DROP=	5.952

DEVICE LEGEND	
SPEAKER/VISUAL	=S/V
VISUAL DEVICE	=V
CANDELA RATING	=XXcd
CEILING	=C
WALL	=(BLANK)

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V14

CKT/DEVICE #	V14-1	V14-2	V14-3	V14-4	V14-5	V14-6	V14-7	V14-8	V14-9	V14-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	65	50	60	50	35	35	50	45	30	20
AMPS @ DEVICE	0.0208	0.0208	0.0208	0.0208	0.0104	0.083	0.0208	0.0208	0.0104	0.083
AMPS DEVELOPED	0.4154	0.3946	0.3738	0.353	0.3322	0.3218	0.2388	0.218	0.1972	0.1868
VOLT. DROP	0.136	0.099	0.113	0.089	0.059	0.057	0.060	0.049	0.030	0.019

CKT/DEVICE #	V14-11	V14-12	V14-13	V14-14	V14-15	V14-16	V14-17	V14-18	V14-19	V14-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	50	40	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0.0208	0.083	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0.1038	0.083	0	0	0	0	0	0	0	0
VOLT. DROP	0.026	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V14
TOTAL CKT AMPS.=	0.4154 (9.97W)
CIRCUIT LENGTH =	530FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.754
VOLTAGE AT FINAL DEVICE=	19.646
% VOLTAGE DROP=	3.696

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V9

CKT/DEVICE #	V9-1	V9-2	V9-3	V9-4	V9-5	V9-6	V9-7	V9-8	V9-9	V9-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	70	40	80	80	65	40	80	30	50	0
AMPS @ DEVICE	0.083	0.0208	0.0208	0.0208	0.083	0.0208	0.0208	0.083	0.083	0
AMPS DEVELOPED	0.436	0.353	0.3322	0.3114	0.2906	0.2076	0.1868	0.166	0.083	0
VOLT. DROP	0.154	0.071	0.134	0.126	0.095	0.042	0.075	0.025	0.021	0.000

CKT/DEVICE #	V9-11	V9-12	V9-13	V9-14	V9-15	V9-16	V9-17	V9-18	V9-19	V9-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V9
TOTAL CKT AMPS.=	0.436 (10.46W)
CIRCUIT LENGTH =	535FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.743
VOLTAGE AT FINAL DEVICE=	19.657
% VOLTAGE DROP=	3.642

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V5

CKT/DEVICE #	V5-1	V5-2	V5-3	V5-4	V5-5	V5-6	V5-7	V5-8	V5-9	V5-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	45	50	50	50	45	50	50	50	50	55
AMPS @ DEVICE	0.0208	0.0208	0.083	0.0208	0.083	0.0208	0.083	0.0208	0.0208	0.083
AMPS DEVELOPED	0.789	0.7682	0.7474	0.6644	0.6436	0.5606	0.5398	0.4568	0.436	0.4152
VOLT. DROP	0.179	0.194	0.188	0.167	0.146	0.141	0.136	0.115	0.110	0.115

CKT/DEVICE #	V5-11	V5-12	V5-13	V5-14	V5-15	V5-16	V5-17	V5-18	V5-19	V5-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	45	55	45	45	40	45	20	0	0	0
AMPS @ DEVICE	0.0208	0.083	0.0208	0.083	0.083	0.0208	0.0208	0	0	0
AMPS DEVELOPED	0.3322	0.3114	0.2284	0.2076	0.1246	0.0416	0.0208	0	0	0
VOLT. DROP	0.075	0.086	0.052	0.047	0.025	0.009	0.002	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V5
TOTAL CKT AMPS.=	0.789 (18.94W)
CIRCUIT LENGTH =	790FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	1.789
VOLTAGE AT FINAL DEVICE=	18.611
% VOLTAGE DROP=	8.769

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V1

CKT/DEVICE #	V1-1	V1-2	V1-3	V1-4	V1-5	V1-6	V1-7	V1-8	V1-9	V1-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	40	40	65	80	40	60	65	40	30	40
AMPS @ DEVICE	0.083	0.0208	0.0208	0.0208	0.083	0.0208	0.0208	0.0208	0.0104	0.083
AMPS DEVELOPED	0.3842	0.3012	0.2804	0.2596	0.2388	0.1558	0.135	0.1142	0.0934	0.083
VOLT. DROP	0.077	0.061	0.092	0.105	0.048	0.047	0.044	0.023	0.014	0.017

CKT/DEVICE #	V1-11	V1-12	V1-13	V1-14	V1-15	V1-16	V1-17	V1-18	V1-19	V1-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V1
TOTAL CKT AMPS.=	0.3842 (9.22W)
CIRCUIT LENGTH =	500FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.528
VOLTAGE AT FINAL DEVICE=	19.872
% VOLTAGE DROP=	2.589

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V15

CKT/DEVICE #	V15-1	V15-2	V15-3	V15-4	V15-5	V15-6	V15-7	V15-8	V15-9	V15-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	40	35	50	40	35	25	30	30	0	0
AMPS @ DEVICE	0.0208	0.0208	0.0208	0.0208	0.0208	0.0208	0.0208	0.083	0	0
AMPS DEVELOPED	0.2286	0.2078	0.187	0.1662	0.1454	0.1246	0.1038	0.083	0	0
VOLT. DROP	0.046	0.037	0.047	0.034	0.026	0.016	0.016	0.013	0.000	0.000

CKT/DEVICE #	V15-11	V15-12	V15-13	V15-14	V15-15	V15-16	V15-17	V15-18	V15-19	V15-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V15
TOTAL CKT AMPS.=	0.2286 (5.49W)
CIRCUIT LENGTH =	285FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.233
VOLTAGE AT FINAL DEVICE=	20.167
% VOLTAGE DROP=	1.142

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V10

CKT/DEVICE #	V10-1	V10-2	V10-3	V10-4	V10-5	V10-6	V10-7	V10-8	V10-9	V10-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	260	70	20	25	105	80	40	100	80	0
AMPS @ DEVICE	0.0208	0.0208	0.0208	0.083	0.0208	0.0208	0.083	0.0208	0.0208	0
AMPS DEVELOPED	0.3116	0.2908	0.27	0.2492	0.1662	0.1454	0.1246	0.0416	0.0208	0
VOLT. DROP	0.408	0.103	0.027	0.031	0.088	0.059	0.025	0.021	0.008	0.000

CKT/DEVICE #	V10-11	V10-12	V10-13	V10-14	V10-15	V10-16	V10-17	V10-18	V10-19	V10-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V10
TOTAL CKT AMPS.=	0.3116 (7.48W)
CIRCUIT LENGTH =	780FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.771
VOLTAGE AT FINAL DEVICE=	19.629
% VOLTAGE DROP=	3.777

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V6

CKT/DEVICE #	V6-1	V6-2	V6-3	V6-4	V6-5	V6-6	V6-7	V6-8	V6-9	V6-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	105	80	45	75	55	50	50	50	45	50
AMPS @ DEVICE	0.0208	0.0208	0.083	0.083	0.0208	0.0208	0.083	0.0208	0.083	0.0208
AMPS DEVELOPED	0.7474	0.7266	0.7058	0.6228	0.5398	0.519	0.4982	0.4152	0.3944	0.3114
VOLT. DROP	0.396	0.293	0.160	0.235	0.150	0.131	0.126	0.105	0.089	0.078

CKT/DEVICE #	V6-11	V6-12	V6-13	V6-14	V6-15	V6-16	V6-17	V6-18	V6-19	V6-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	45	50	50	50	45	0	0	0	0	0
AMPS @ DEVICE	0.083	0.0208	0.083	0.083	0.0208	0	0	0	0	0
AMPS DEVELOPED	0.2906	0.2076	0.1868	0.1038	0.0208	0	0	0	0	0
VOLT. DROP	0.066	0.052	0.047	0.026	0.005	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V6
TOTAL CKT AMPS.=	0.7474 (17.94W)
CIRCUIT LENGTH =	845FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	1.959
VOLTAGE AT FINAL DEVICE=	18.441
% VOLTAGE DROP=	9.601

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V2

CKT/DEVICE #	V2-1	V2-2	V2-3	V2-4	V2-5	V2-6	V2-7	V2-8	V2-9	V2-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	50	30	30	35	25	25	50	40	30	35
AMPS @ DEVICE	0.0208	0.0208	0.0208	0.0104	0.0104	0.0208	0.083	0.0208	0.083	0.0208
AMPS DEVELOPED	0.3946	0.3738	0.353	0.3322	0.3218	0.3114	0.2906	0.2076	0.1868	0.1038
VOLT. DROP	0.099	0.057	0.053	0.059	0.041	0.039	0.073	0.042	0.028	0.018

CKT/DEVICE #	V2-11	V2-12	V2-13	V2-14	V2-15	V2-16	V2-17	V2-18	V2-19	V2-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	35	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0.083	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0.083	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V2
TOTAL CKT AMPS.=	0.3946 (9.47W)
CIRCUIT LENGTH =	385FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.524
VOLTAGE AT FINAL DEVICE=	19.876
% VOLTAGE DROP=	2.569

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V16

CKT/DEVICE #	V16-1	V16-2	V16-3	V16-4	V16-5	V16-6	V16-7	V16-8	V16-9	V16-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	115	35	55	35	40	35	40	75	30	0
AMPS @ DEVICE	0.083	0.0208	0.083	0.0208	0.0208	0.083	0.0208	0.0208	0.083	0
AMPS DEVELOPED	0.436	0.353	0.3322	0.2492	0.2284	0.2076	0.1246	0.1038	0.083	0
VOLT. DROP	0.253	0.062	0.092	0.044	0.046	0.037	0.025	0.039	0.013	0.000

CKT/DEVICE #	V16-11	V16-12	V16-13	V16-14	V16-15	V16-16	V16-17	V16-18	V16-19	V16-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V16
TOTAL CKT AMPS.=	0.436 (10.46W)
CIRCUIT LENGTH =	460FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.611
VOLTAGE AT FINAL DEVICE=	19.789
% VOLTAGE DROP=	2.993

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V11

CKT/DEVICE #	V11-1	V11-2	V11-3	V11-4	V11-5	V11-6	V11-7	V11-8	V11-9	V11-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	270	40	95	45	80	80	30	50	0	0
AMPS @ DEVICE	0.0208	0.083	0.0208	0.0208	0.0208	0.0208	0.083	0.083	0	0
AMPS DEVELOPED	0.353	0.3322	0.2492	0.2284	0.2076	0.1868	0.166	0.083	0	0
VOLT. DROP	0.480	0.067	0.119	0.052	0.084	0.075	0.025	0.021	0.000	0.000

CKT/DEVICE #	V11-11	V11-12	V11-13	V11-14	V11-15	V11-16	V11-17	V11-18	V11-19	V11-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V11
TOTAL CKT AMPS.=	0.353 (8.47W)
CIRCUIT LENGTH =	690FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.923
VOLTAGE AT FINAL DEVICE=	19.477
% VOLTAGE DROP=	4.527

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V7

CKT/DEVICE #	V7-1	V7-2	V7-3	V7-4	V7-5	V7-6	V7-7	V7-8	V7-9	V7-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	110	55	35	50	40	70	65	40	60	50
AMPS @ DEVICE	0.0208	0.0208	0.0208	0.0208	0.083	0.0208	0.083	0.0208	0.083	0.0208
AMPS DEVELOPED	0.706	0.6852	0.6644	0.6436	0.6228	0.5398	0.519	0.436	0.4152	0.3322
VOLT. DROP	0.391	0.190	0.117	0.162	0.126	0.190	0.170	0.088	0.126	0.084

CKT/DEVICE #	V7-11	V7-12	V7-13	V7-14	V7-15	V7-16	V7-17	V7-18	V7-19	V7-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	45	65	65	45	50	65	0	0	0	0
AMPS @ DEVICE	0.083	0.0208	0.083	0.0208	0.083	0.0208	0	0	0	0
AMPS DEVELOPED	0.3114	0.2284	0.2076	0.1246	0.1038	0.0208	0	0	0	0
VOLT. DROP	0.071	0.075	0.068	0.028	0.026	0.007	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V7
TOTAL CKT AMPS.=	0.706 (16.94W)
CIRCUIT LENGTH =	910FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	1.919
VOLTAGE AT FINAL DEVICE=	18.481
% VOLTAGE DROP=	9.405

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME	Warren Jr High
VAC/VOICE SIG CKT#	V3

CKT/DEVICE #	V3-1	V3-2	V3-3	V3-4	V3-5	V3-6	V3-7	V3-8	V3-9	V3-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	150	25	25	30	40	35	25	40	30	0
AMPS @ DEVICE	0.0104	0.0104	0.0208	0.083	0.0208	0.0208	0.083	0.0208	0.083	0
AMPS DEVELOPED	0.353	0.3426	0.3322	0.3114	0.2284	0.2076	0.1868	0.1038	0.083	0
VOLT. DROP	0.267	0.043	0.042	0.047	0.046	0.037	0.024	0.021	0.013	0.000

CKT/DEVICE #	V3-11	V3-12	V3-13	V3-14	V3-15	V3-16	V3-17	V3-18	V3-19	V3-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	0	0	0	0	0	0	0	0	0	0
AMPS @ DEVICE	0	0	0	0	0	0	0	0	0	0
AMPS DEVELOPED	0	0	0	0	0	0	0	0	0	0
VOLT. DROP	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V3
TOTAL CKT AMPS.=	0.353 (8.47W)
CIRCUIT LENGTH =	400FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	0.539
VOLTAGE AT FINAL DEVICE=	19.861
% VOLTAGE DROP=	2.640

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS.
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

DSA File No.: 15-95

DSA Application No.: 03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

General Notes

THOMA ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829

REGISTERED PROFESSIONAL ENGINEER
WILLIAM A. THOMA
NO. 10757
ELECTRICAL
STATE OF CALIFORNIA
EXPIRES: 06/30/26
THOMA #22-8087

Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

FIRE ALARM CALCULATIONS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT
MICHAEL K. FENNACY
No. C23724
Ren. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E406
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME: Warren Jr High
VACOVOICE SIG CKT#: V17

CKT/DEVICE #	V17-1	V17-2	V17-3	V17-4	V17-5	V17-6	V17-7	V17-8	V17-9	V17-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	40	30	45	35	70	35	50	60	50	40
AMPS @ DEVICE	0.083	0.0208	0.0208	0.0208	0.0208	0.083	0.0208	0.0208	0.083	0.0208
AMPS DEVELOPED	0.6438	0.5608	0.54	0.5192	0.4984	0.4776	0.3946	0.3738	0.353	0.27
VOLT. DROP	0.130	0.085	0.122	0.092	0.176	0.084	0.099	0.113	0.089	0.054

CKT/DEVICE #	V17-11	V17-12	V17-13	V17-14	V17-15	V17-16	V17-17	V17-18	V17-19	V17-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	45	35	60	60	30	50	0	0	0	0
AMPS @ DEVICE	0.083	0.0208	0.0208	0.0208	0.083	0.0208	0	0	0	0
AMPS DEVELOPED	0.2492	0.1662	0.1454	0.1246	0.1038	0.0208	0	0	0	0
VOLT. DROP	0.057	0.029	0.044	0.038	0.016	0.005	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V17
TOTAL CKT AMPS. =	0.6438 (15.45W)
CIRCUIT LENGTH =	735FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	1.233
VOLTAGE AT FINAL DEVICE=	19.167
% VOLTAGE DROP=	6.044

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

VOLTAGE DROP (VD) CALCULATION

PROJ. NAME: Warren Jr High
VACOVOICE SIG CKT#: V18

CKT/DEVICE #	V18-1	V18-2	V18-3	V18-4	V18-5	V18-6	V18-7	V18-8	V18-9	V18-10
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	45	30	55	40	55	60	30	35	60	40
AMPS @ DEVICE	0.083	0.0208	0.0208	0.0208	0.0208	0.0208	0.083	0.0208	0.0208	0.083
AMPS DEVELOPED	0.5816	0.4986	0.4778	0.457	0.4362	0.4154	0.3946	0.3116	0.2908	0.27
VOLT. DROP	0.132	0.075	0.132	0.092	0.121	0.126	0.060	0.055	0.088	0.054

CKT/DEVICE #	V18-11	V18-12	V18-13	V18-14	V18-15	V18-16	V18-17	V18-18	V18-19	V18-20
GAUGE WIRE	14	14	14	14	14	14	14	14	14	14
DISTANCE (FT)	40	45	60	60	45	25	0	0	0	0
AMPS @ DEVICE	0.0208	0.0208	0.0208	0.0208	0.0208	0.083	0	0	0	0
AMPS DEVELOPED	0.187	0.1662	0.1454	0.1246	0.1038	0.083	0	0	0	0
VOLT. DROP	0.038	0.038	0.044	0.038	0.024	0.010	0.000	0.000	0.000	0.000

FORMULA	
I X FEET X OHMS / FT	
SIGNAL CIRCUIT =	V18
TOTAL CKT AMPS. =	0.5816 (13.96W)
CIRCUIT LENGTH =	725FT
CKT VOLTAGE=	20.4
TOTAL CKT V.D.=	1.126
VOLTAGE AT FINAL DEVICE=	19.274
% VOLTAGE DROP=	5.522

SPEAKER LOAD	
INTERIOR	.25W = .0104A
INTERIOR	.5W = .0208A
EXTERIOR	2W = .0830A

WIRE SIZE	RESIS. /M FT.	CIRC. MILS
6	0.5	26240
10	1.21	10380
12	1.59	6530
14	2.52	4110
16	4.02	2580
18	6.39	1620
20	10.1	1020
22	16.2	640
24	25.7	404

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

General Notes

thoma ENGINEERING
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Phone: (805) 543-3850
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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26

Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
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Project

FIRE ALARM CALCULATIONS

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LICENSED ARCHITECT MUSRED K. FESSLER No. C23724 Exp. 4-30-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Copyright 2022 Darden Architects

Scale: AS NOTED	Designed By: PM	X/E407
Project Number: 2228	Drawn By: KH	
Date: 03/22/2023	Checked By: JT	
	Reviewed By: JT	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 7 of 8)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	5/16/2023

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 4 of 8)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	5/16/2023

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
		Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
Building A Office Area (Open)	All Other Space Types	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
Building B Lounge, Breakroom or Waiting Area	Lounge	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
Classroom, Lecture, Training, Vocational Areas	Classroom, Lecture, or Training Vocational	Readily Accessible	Dimmer	See Building Level	NA:Garage < 36sf opening	NA:Garage < 36sf opening	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 1 of 8)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	5/16/2023

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04	Total Conditioned Floor Area (ft^2)	3,357
02	Climate Zone	13	05	Total Unconditioned Floor Area (ft^2)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

● Classroom ● Convention Center ● Office ● Support Areas ● Warehouse ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft^2)	Calculation Method	Area (ft^2)
☒ New Lighting System	Area Category Method	3357	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft^2)	3357		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 8 of 8)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	5/16/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: William Thoma	Documentation Author Signature:
Company: Thoma Electric, Inc	Signature Date: 2023-05-16
Address: 3852 Empleo Street, Suite C	CEA/ HERS Certification Identification (if applicable): E10757
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: William Thoma	Responsible Designer Signature:
Company: Thoma Electric, Inc.	Date Signed: 2023-05-16
Address: 3852 Empleo Street, Suite C	License: E10757
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 5 of 8)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	5/16/2023

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
Office Area (Open plan office)	Office (>250 square feet)	0.6	1,392	835.2	No	No
Lounge, Breakroom or Waiting Area	Lounge	0.55	759	417.4	No	No
Restrooms	Restroom	0.65	168	109.2	No	No
Conventions, Conference, Multipurpose, and Meeting Area	Convention, Conference, Multipurpose and Meeting Center	0.75	269	201.8	No	No
Storage, Commercial/Industrial (General)	Commercial Industrial Warehouse	0.4	34	13.6	No	No
Classroom, Lecture, Training, Vocational Areas	Classroom, Lecture, or Training Vocational	0.6	735	441	No	No
			TOTALS:	3,357	2,018.2	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 2 of 8)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	5/16/2023

C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned		2,018.2	0		=	2,018	≥	1,986	0	=	1986	COMPLIES
Unconditioned					=		≥			=		
Controls Compliance (See Table H for Details)												COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)												

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 6 of 8)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	5/16/2023

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 3 of 8)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	5/16/2023

F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
AL	AL-LED-305W	No	NA	305	Mfr. Spec	1	No	305	☐	☐
AS	AS-LED-183W	No	NA	183	Mfr. Spec	1	No	183	☐	☐
ASQ	ASQ-LED-240W	No	NA	240	Mfr. Spec	3	No	720	☐	☐
BA1	BA1 - LED - 38W	No	NA	38	Mfr. Spec	1	No	38	☐	☐
BA2	BA2 - LED - 25W	No	NA	25	Mfr. Spec	3	No	75	☐	☐
BASQ	BASQ - LED - 38W	No	NA	38	Mfr. Spec	2	No	76	☐	☐
BB	BB - LED - 24	No	NA	24	Mfr. Spec	12	No	288	☐	☐
BC	BC - LED - 25W	No	NA	25	Mfr. Spec	2	No	50	☐	☐
BEM1	BEM1 - LED - 11W	No	NA	11	Mfr. Spec	1	No	11	☐	☐
IA	IA - LED - 30W	No	NA	30	Mfr. Spec	8	No	240	☐	☐
							Total Designed Watts: CONDITIONED SPACES	1,986		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

DSA File No.: *15-95*

DSA Application No.: *03-122615*

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

General Notes

thoma ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26

Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TITLE 24 INTERIOR LIGHTING COMPLIANCE FORMS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT RICHARD K. FERGUSON No. C29724 Exp. 4-30-24 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E501
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

K:\ENG\2022\22-8087\22-8087_08-XE501-XE503 T24 FORMS.dwg - khanjiev - May 16, 2023 - 5:07pm

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 7 of 7)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	2/7/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: William Thoma	Documentation Author Signature:
Company: Thoma Electric, Inc	Signature Date: 2023-02-07
Address: 3852 Empleo, Suite C	CEA/ HERS Certification Identification (if applicable): E10757
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: William Thoma	Responsible Designer Signature:
Company: Thoma Electric, Inc.	Date Signed: 2023-02-07
Address: 3852 Empleo Street, Suite C	License: E10757
City/State/Zip: San Luis Obispo CA 93401	Phone: 805-543-3850

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2023-02-07 10:29:53

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 4 of 7)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	2/7/2023

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
Pedestrian Hardscape BLDG A	Photocontrol	Yes	Yes	☐	☐
Pedestrian Hardscape BLDG B	Photocontrol	Yes	Yes	☐	☐
Pedestrian Hardscape P15	Photocontrol	Yes	Yes	☐	☐

** NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2023-02-07 10:29:53

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 1 of 7)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	2/7/2023

A. GENERAL INFORMATION

01	Project Location (city)	Bakersfield	04 Total Illuminated Hardscape Area (ft^2)	28706
02	Climate Zone	13		
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐	LZ-0: Very Low - Undeveloped Parkland	☐ LZ-2: Moderate - Rural Areas	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Developed Parkland	☒ LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from §140.7	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No	
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2023-02-07 10:29:53

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 5 of 7)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	2/7/2023

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

01				
☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)

02	03	04	05	06	07	08	9	10
Area Description	Surface Type	Area Wattage Allowance (AWA)			Area Wattage Allowance (AWA)			Total General AWA + LWA (Watts)
		Illuminated Area (ft^2)	Allowed Density (W/ft^2)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Pedestrian Hardscape @ BLDG A	Asphalt	4578	0.025	114.4	451	0.2	112.8	227
Pedestrian Harscape @ BLDG B	Asphalt	5486	0.025	137.2	544	0.2	136	273
Pedestrian Harscape @ P15	Asphalt	18642	0.025	466	785	0.2	196.2	662
							Initial Wattage Allowance for Entire Site (Watts):	350
							Total General Hardscape Allowance (Watts):	1513

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2023-02-07 10:29:53

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 2 of 7)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	2/7/2023

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L														Compliance Results				
01		02		03		04		05		06				07		08	09	
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=			**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**	
1,512.65	+	---	+	---	+	---	+	---	OR	---	=			1,512.65	≥	536	COMPLIES	

Cutoff Compliance (See Table G for Details)	N/A
Controls Compliance (See Table H for Details)	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2023-02-07 10:29:53

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 6 of 7)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	2/7/2023

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐	

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2023-02-07 10:29:53

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	Earl Warren Jr High School	**Report Page:**	**(Page 3 of 7)**
Project Address:	4615 Mountain Vista Drive	**Date Prepared:**	2/7/2023

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
										Pass	Fail
AS1	AS1 - LED - 24W	☐ Linear	24	Mfr. Spec	2	New	☐	48	NA: < 6200 lumens	☐	☐
BS1	BS1 - LED - 24W	☐ Linear	24	Mfr. Spec	2	New	☐	48	NA: < 6200 lumens	☐	☐
SS1	SS1 - LED - 37W	☐ Linear	37	Mfr. Spec	6	New	☐	222	NA: < 6200 lumens	☐	☐
SS2E	SS2E- LED - 218W	☐ Linear	218	Mfr. Spec	1	New	☐	218	NA: < 6200 lumens	☐	☐
							Total Design Watts:	536			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1]FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number: Registration Date/Time: Registration Provider: Energysoft

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20200601 Report Generated: 2023-02-07 10:29:53

DSA File No.: 15-95

DSA Application No.: 03-122615

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

General Notes

THOMA ENGINEERING
THOMA ELECTRIC, INC.
P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829

REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA NO. 10757 ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26
THOMA #22-8087

Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

TITLE 24 EXTERIOR LIGHTING COMPLIANCE FORMS

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
www.dardenarchitects.com
6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E502
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name: Earl Warren Jr. High		Report Page:	Page 4 of 4
Project Address: 4615 Mountain Vista Drive, Bakersfield, CA 93311		Date Prepared:	11/30/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	William Thoma	Documentation Author Signature:	
Company:	Thoma Electric, Inc.	Signature Date:	12/01/2022
Address:	3562 Empleo Street, Suite C	CEA/ HERS Certification Identification (if applicable):	E10757
City/State/Zip:	San Luis Obispo, CA 93401	Phone:	805-543-3850

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. **The information provided on this Certificate of Compliance is true and correct.**
2. **I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)**
3. **The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.**
4. **The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.**
5. **I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.**

Responsible Designer Name:	William Thoma	Responsible Designer Signature:	
Company :	Thoma Electric, Inc.	Date Signed:	12/01/2022
Address:	3562 Empleo Street, Suite C	License:	E10757
City/State/Zip:	San Luis Obispo, CA 93401	Phone:	805-543-3850

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

This document is used to demonstrate compliance with mandatory requirements in §130.5 for electrical systems in newly constructed nonresidential, high-rise residential and hotel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per §141.0(a) or §141.0(b)2P for alterations.

Project Name: Earl Warren Jr. High		Report Page:	Page 1 of 4
Project Address: 4615 Mountain Vista Drive, Bakersfield, CA 93311		Date Prepared:	11/30/2022

A. GENERAL INFORMATION

01 Project Location (city):

02 Occupancy Types Within Project:

☐ Office ☐ Retail ☐ Warehouse ☐ Hotel/ Motel ☑ School ☐ Support Areas
☐ Parking Garage ☐ High-Rise Residential ☐ Relocatable ☐ Healthcare Facilities ☐ Other (Write In):

B. PROJECT SCOPE

Table Instructions: Include any electrical service systems that are within the scope of the permit application.

01	02	03	04	05	06
Electrical Service Designation/ Description	Scope of Work[1]	Rating (kVA)	Utility Provided Metering System Exception to §130.5(a)[2]	System subject to CA Elec Code Article 517 Exception to §130.5(a)&(b)	Demand Response Controls: Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections §120.2, §130.1 and §130.3 and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will indicate when demand response controls are required.
MS	Add/Alt to feeders and branch circuits only		☐	☐	

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required.
[2] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

C. COMPLIANCE RESULTS

Table Instructions: If this table says "DOES NOT COMPLY" refer to Table D. for guidance and review the Table that indicates "No".

01		02		03		04	05
Service Electrical Metering §130.5(a)	AND	Separation for Monitoring §130.5(b)	AND	Voltage Drop §130.5(c)	AND	Controlled Receptacles §130.5(d)	**Compliance Results**
(See Table F)		(See Table G)		(See Table H)		(See Table I)	
	AND		AND	Yes	AND		**COMPLIES**

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name: Earl Warren Jr. High		Report Page:	Page 2 of 4
Project Address: 4615 Mountain Vista Drive, Bakersfield, CA 93311		Date Prepared:	11/30/2022

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. SERVICE ELECTRICAL METERING

This Section Does Not Apply

G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING

This Section Does Not Apply

H. VOLTAGE DROP

Table Instructions: Please complete this table for entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with §130.5(c). For alterations, only the altered circuits must demonstrate compliance per §141.0(b)2Piii.

01	02		03	04	05	
Electrical Service Designation/ Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method		Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
					Pass	Fail
	☑ Voltage drop < 5%	☐ Permitted by CA Elec Code (Exception to §130.5(c))*	In construction documents	2-XE-201, Single Line Diagram	☐	☐

**NOTES If "Permitted by CA Elec Code*" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*
[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

I. CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES

This Section Does Not Apply

STATE OF CALIFORNIA
Electrical Power Distribution
NRCC-ELC-E (Created 01/20) CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-ELC-E
Project Name: Earl Warren Jr. High		Report Page:	Page 3 of 4
Project Address: 4615 Mountain Vista Drive, Bakersfield, CA 93311		Date Prepared:	11/30/2022

J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

YES	NO	Form/Title	Field Inspector	
			Pass	Fail
◉	○	NRCI-ELC-01-E - Must be submitted for all buildings.	☐	☐

K. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no Certificates of Acceptance applicable to electrical power distribution requirements.

DSA File No.: 15-95

DSA Application No.: 03-122615

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

General Notes

THOMA ENGINEERING
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P.O. Box 1167 - 3562 Empleo St.
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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA NO. 10757 ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26
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Consultant

Earl Warren Junior High School Modernization Phase 1

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Bakersfield, CA 93313

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TITLE 24 POWER COMPLIANCE FORMS

Drawing

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LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA

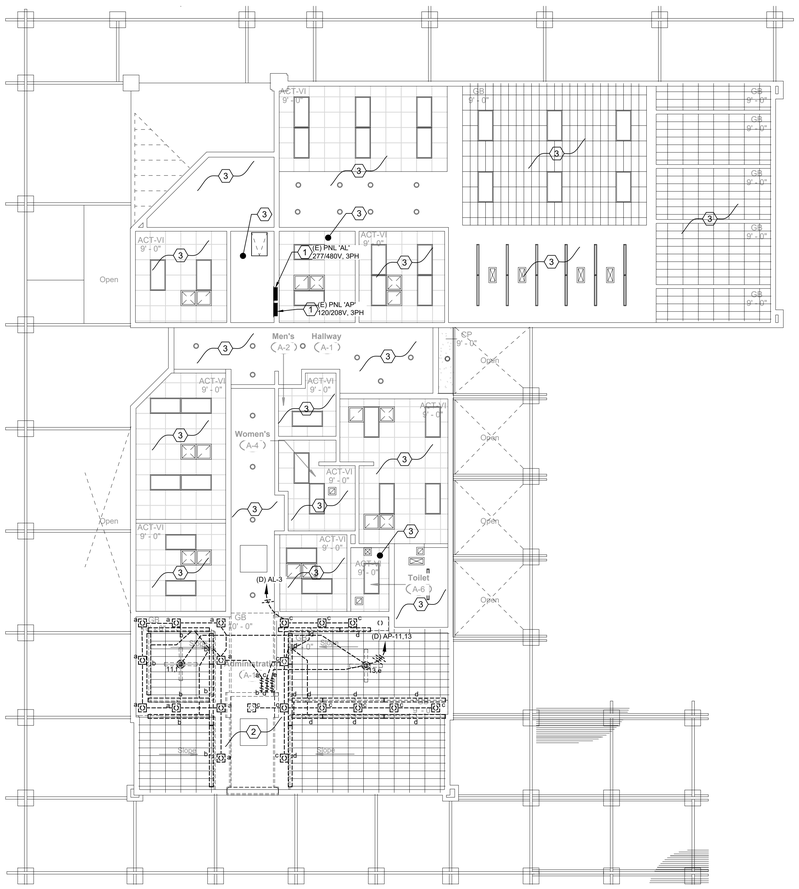
Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	X/E503
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

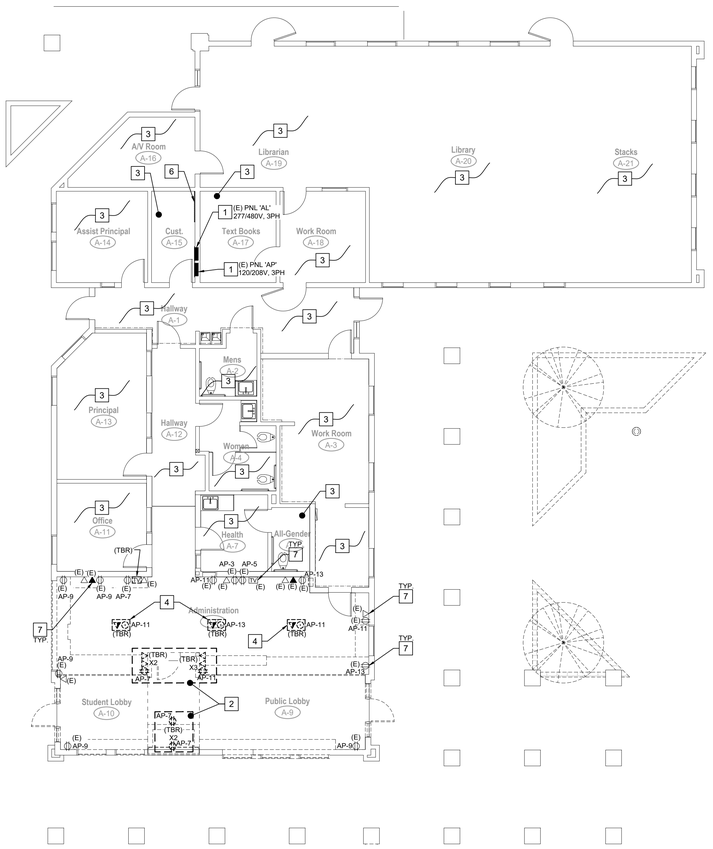
K:\ENG\2022\22-8087\22-8087_08-XE501~XE503 T24 FORMS.dwg - Pat - Mar 22, 2023 - 7:47am



BUILDING A LIGHTING DEMOLITION FLOOR PLAN

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

NORTH



BUILDING A POWER AND SIGNAL DEMOLITION FLOOR PLAN

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

NORTH

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

POWER AND SIGNAL DEMOLITION REFERENCE NOTES

1. (E) ELECTRICAL SUB-PANEL TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). (E) HOMERUN BRANCH CIRCUITS ARE TO REMAIN SERVING AREA OF DEMOLITION.
2. DEMOLISH (E) POWER WIRING DEVICE(S) AND (E) COMMUNICATIONS OUTLET(S) AFFECTED BY DEMOLITION OF (E) WALLS WITHIN THIS AREA. SAFE OFF CIRCUITS WITH NO REMAINING POWER DEVICES; IF DEVICES REMAIN ON CIRCUITS AFFECTED BY DEMOLITION, DEVICES REMOVED SHALL HAVE CONDUIT AND WIRING ALSO REMOVED BACK TO THE LAST FIXTURE, OUTLET, DEVICE, ETC., REMAINING IN SERVICE. REMOVE DATA CABLING BACK TO SOURCE.
3. (E) POWER CIRCUITS AND DEVICES IN ROOM TO REMAIN--NO DEMOLITION SCOPE OF WORK.
4. DEMOLISH (E) DUPLEX RECEPTACLE AND (E) DATA OUTLET INSIDE (E) FLUSH IN FLOOR BOXES. PROVIDE (N) STAINLESS STEEL FLUSH COVER PLATE OVER (E) FLOOR BOX--ABANDON (E) FLOOR BOX AND (E) IN-SLAB CONDUITS SERVING FLOOR BOX IN PLACE.
5. NOT USED.
6. (E) MAIN TELEPHONE AND CATV BACKBOARD TO REMAIN.
7. DEVICE MARKED AS "(E)" IS EXISTING TO REMAIN AND BE PROTECTED IN PLACE DURING DEMOLITION WORK. FOR POWER RECEPTACLES, REPLACE (E) RECEPTACLE IN PLACE WITH A (N) TAMPER RESISTANT TYPE RECEPTACLE--PROVIDE (N) RECEPTACLE FACEPLATE PER PROJECT SPECIFICATIONS. FOR (E) DATA AND (E) TELEPHONE OUTLETS, PROVIDE (N) FACEPLATE PER PROJECT SPECIFICATIONS AND MATCH (E) DATA/TELEPHONE JACK/PORT COUNT. FOR (E) TV OUTLETS, PROVIDE (N) FACEPLATE PER PROJECT SPECIFICATIONS AND MATCH (E) GANG AND PORT CONFIGURATION.

(#) LIGHTING DEMOLITION REFERENCE NOTES

1. (E) ELECTRICAL SUB-PANEL TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). DISCONNECT (E) BRANCH CIRCUITS SLATED FOR DEMOLITION AS SHOWN ON THIS SHEET. AFTER DISCONNECTION OF (E) BRANCH CIRCUIT, IF (E) BRANCH CIRCUIT BREAKER IS NOT RE-USED AS SHOWN ON THE PANEL SCHEDULES OR NEW POWER AND LIGHTING FLOOR PLAN SHEETS, LABEL BRANCH CIRCUIT BREAKER AS "SPARE".
2. DISCONNECT AND DEMOLISH (E) LIGHTING FIXTURES (277V) AND CEILING FANS (120V) IN ADMINISTRATION AND LOBBIES AREAS SHOWN. REFER TO ARCHITECTURAL SHEETS FOR FURTHER DEMOLITION INFORMATION IN THIS AREA. REFER TO LIGHTING FLOOR PLAN FOR NEW WORK IN AREA.
3. (E) LIGHTING IN ROOM TO REMAIN--NO DEMOLITION SCOPE OF WORK.

General Notes

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Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING A ELECTRICAL DEMOLITION FLOOR PLAN

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LICENSED ARCHITECT GEORGE K. FERGUSON No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	A/E001
Project Number: 2228	Checked By: JT	
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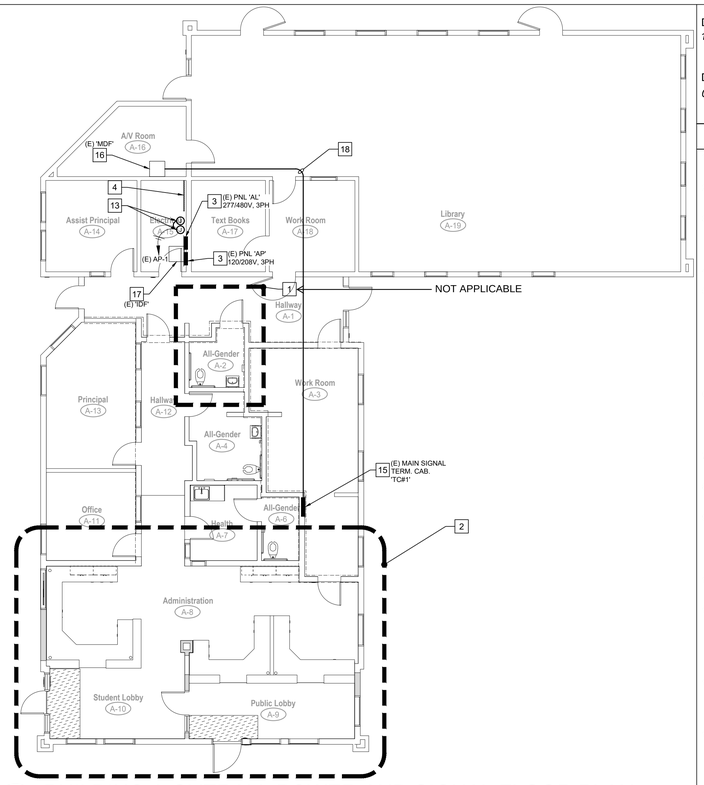


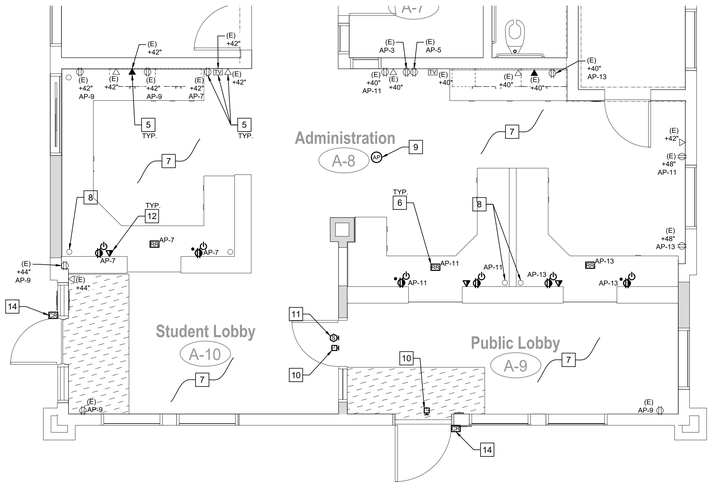
NORTH

BUILDING A OVERALL POWER AND SIGNAL FLOOR PLAN

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

(E) PANEL "AP" LOAD CHANGE SUMMARY:		
CIRCUIT AP-7		
REMOVED (3) DUPLEX RECEPTACLES	3*-180VA =	-540VA
ADDED (2) DUPLEX RECEPTACLES	2*180VA =	+360VA
NET REDUCED LOAD ON AP-7 OF 180VA		
CIRCUIT AP-11		
REMOVED (3) DUPLEX RECEPTACLES	3*-180VA =	-540VA
ADDED (2) DUPLEX RECEPTACLES	2*180VA =	+360VA
NET REDUCED LOAD ON AP-11 OF 180VA		
CIRCUIT AP-13		
REMOVED (1) DUPLEX RECEPTACLE	1*-180VA =	-180VA
ADDED (2) DUPLEX RECEPTACLES	2*180VA =	+360VA
NET INCREASED LOAD ON AP-13 OF 180VA		
CIRCUIT AP-20		
ADDED (1) CEILING J-BOX	1*180VA =	180VA
TOTAL OF ALL BRANCH CIRCUIT CHANGES ON "AP"	=	0A

THE EXISTING BRANCH PANELBOARD HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD CHANGES AS SHOWN ON THESE PLANS.



2 ENLARGED LOBBBY AND ADMIN. POWER AND SIGNAL PLAN

SCALE: 1/4" - 1' 0"

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES (APPLY TO BOTH FLOOR PLANS)

1. REFER TO ENLARGED FLOOR PLAN VIEW ON THIS SHEET FOR WORK IN THIS AREA.
2. (E) POWER CIRCUITS AND DEVICES TO REMAIN IN (E) BUILDING UNLESS NOTED OTHERWISE.
3. (E) ELECTRICAL SUB-PANEL TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) CIRCUITS OR MODIFY (E) CIRCUITS AS INDICATED ON THIS SHEET IN AREA OF MODERNIZATION/RENOVATION IN MAIN ADMIN OFFICE/LOBBY.
4. (E) MAIN TELEPHONE AND CATV BACKBOARD TO REMAIN.
5. DEVICE MARKED AS "(E)" IS EXISTING TO REMAIN AND BE PROTECTED IN PLACE DURING DEMOLITION WORK. FOR POWER RECEPTACLES, REPLACE (E) RECEPTACLE IN PLACE WITH A (N) TAMPER RESISTANT TYPE RECEPTACLE--PROVIDE (N) RECEPTACLE FACEPLATE PER PROJECT SPECIFICATIONS. FOR (E) DATA AND (E) TELEPHONE OUTLETS, PROVIDE (N) FACEPLATE PER PROJECT SPECIFICATIONS AND MATCH (E) DATA/TELEPHONE JACK/PORT COUNT. FOR (E) TV OUTLETS, PROVIDE (N) FACEPLATE PER PROJECT SPECIFICATIONS AND MATCH (E) GANG AND PORT CONFIGURATION.
6. RELAY PACK FOR PLUG LOAD CONTROL, PER CALIFORNIA ENERGY CODE 130.5(d). LOCATE IN A CONCEALED SPACE (NOT NECESSARILY WHERE SHOWN ON PLAN). REFER TO SHEET X/E203 FOR LIGHTING CONTROL SYSTEM LEGEND AND NLIGHT SYSTEM WIRING DIAGRAMS. TEXT ADJACENT TO RELAY PACK SYMBOL INDICATES CIRCUIT NUMBER BEING CONTROLLED.
7. ALL 15A AND 20A, 125V AND 250V NON-LOCKING TYPE RECEPTACLES IN THIS ROOM SHALL BE TAMPER RESISTANT PER CEC 406.12.
8. PROVIDE GROMMET IN DESK COUNTER FOR POWER AND DATA CONNECTION TO OUTLETS BELOW. COORDINATE REQUIREMENTS WITH ARCHITECT.
9. CEILING MOUNTED WIRELESS ACCESS POINT HARDWARE TO BE PROVIDED BY DISTRICT STAFF AND INSTALLED BY CONTRACTOR. ROUTE (2) CAT6A CABLES TO BISCUIT IN ACCESSIBLE CEILING SPACE. SEE DETAIL 4 ON SHEET X/E303. ROUTE CATEGORY CABLING IN ACCESSIBLE CEILING SPACE TO BUILDING 'IDF' RACK IN CONDUIT.
10. (N) BATTERY OPERATED CLOCK TO MATCH EXISTING SITE CLOCK SYSTEM, CONTRACTOR TO FIELD VERIFY EXISTING CLOCKS ON SITE.
11. (N) WALL MOUNTED SPEAKERS FOR INTERCOM/PA. CONTRACTOR SHALL INSTALL (N) 5-INCH BACKBOX WITH 1-GANG PLASTER RING AND (1) 1-1/4"C TO 'IDF' IN BUILDING. CONTRACTOR SHALL PROVIDE (1) CAT6 CABLE FOR POE CAPABLE DEVICE HOMERUNNED TO 'IDF'. SPEAKER DEVICE TO BE PROVIDED BY DISTRICT STAFF; CONTRACTOR SHALL INSTALL. VERIFY EXACT MOUNTING HEIGHT WITH DISTRICT REPRESENTATIVE PRIOR TO ROUGH-IN.
12. (N) 4-PORT DATA OUTLET WITH (2) DEDICATED CAT6 CABLES (UNLESS NOTED OTHERWISE ON PLAN). INSTALL (N) 5-INCH BACKBOX WITH 2-GANG MUD RING AND (1) 1-1/4"C TO 'IDF' IN BUILDING. CONTRACTOR SHALL PROVIDE LOW VOLTAGE CABLING, TERMINATION AND TESTING.
13. PROVIDE 120V POWER TO (N) FIRE ALARM EQUIPMENT (SHOWN ON BUILDING 'A' FIRE ALARM FLOOR PLAN SHEET A/E401 AND FIRE ALARM RISER DIAGRAM SHEET X/E401) FROM PANEL 'AP' VIA (E)(1) 20A/1P CIRCUIT. CONTRACTOR SHALL ENSURE (E) CIRCUIT BREAKER HAS RED LOCKING HANDLE; REPLACE (E) BREAKER WITH (N) TO MEET REQUIREMENTS INDICATED AS REQUIRED. ENSURE PANEL DIRECTORY AND PANEL FRONT ARE CLEARLY LABELED "FIRE ALARM CIRCUIT".
14. COORDINATE CARD READER ROUGH-IN AND PATHWAY ROUTING REQUIREMENTS WITH SECURITY SYSTEM INSTALLER SHOP DRAWINGS.
15. (E) MAIN SIGNAL TERMINATION CABINET 'TC#1' TO REMAIN. ALL SIGNAL SYSTEMS THAT SERVE (E) CAMPUS BUILDINGS ROUTE THROUGH THIS CABINET TO (E) CAMPUS UNDERGROUND CONDUIT PATHWAYS.
16. APPROXIMATE LOCATION (E) CAMPUS MAIN DISTRIBUTION FRAME 'MDF' TO REMAIN. CONNECT (N) FIBER OPTIC CABLING FOR (N) BUILDING DATA SYSTEMS, PER COMMUNICATIONS RISER DIAGRAM ON SHEET X/E202, TO (E) FIBER PATCH PANEL AT (E) 'MDF'. COORDINATE WITH DISTRICT IT STAFF.
17. APPROXIMATE LOCATION (E) BUILDING 'A' INTERMEDIATE DISTRIBUTION FRAME 'IDF' TO REMAIN. CONNECT (N) BUILDING 'A' DATA DEVICES TO (E) 'IDF' PATCH PANEL, PER COMMUNICATIONS RISER DIAGRAM ON SHEET X/E202. COORDINATE WITH DISTRICT IT STAFF.
18. SHOULD (E) PATHWAYS NOT EXIST BETWEEN (E) 'TC#1' AND (E) 'MDF' (FIELD VERIFY (E) CONDITIONS), PROVIDE (N)(1) 2"C PATHWAY IN ABOVE CEILING ACCESSIBLE SPACES FOR (N) FIBER DATA CABLING ROUTING, PER COMMUNICATIONS RISER DIAGRAM ON SHEET X/E202.

General Notes

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Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
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Architect

No.	Revision/Submission	Date

Revision

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Scale: AS NOTED	Drawn By: KH	A/E101
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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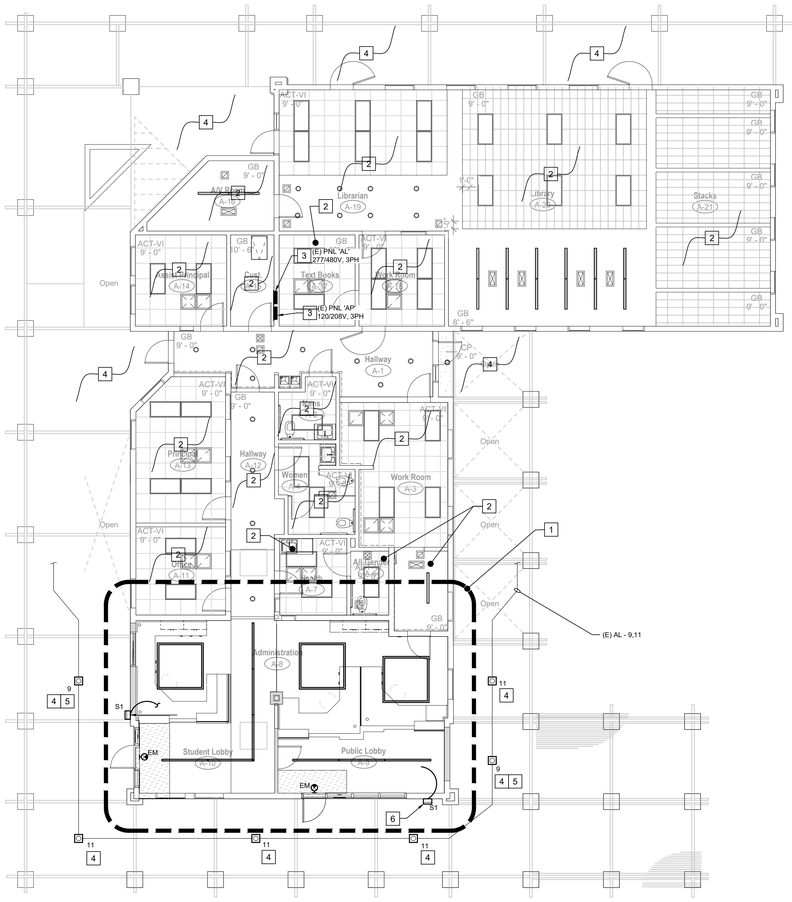
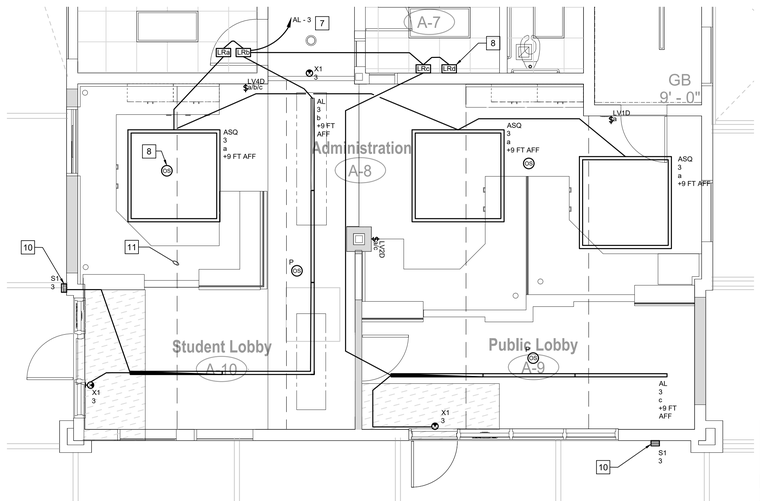


BUILDING A OVERALL LIGHTING FLOOR PLAN

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

NORTH



SEE SHEET X/E203 FOR (N) LUMINAIRE SCHEDULE & CONTROLS.

BUILDING A ENLARGED LIGHTING FLOOR PLAN

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

NORTH

• WHERE NOT SPECIFIED; FINISHES TO BE VERIFI

PANEL 'AL' LIGHTING LOAD CHANGE		
Cir. # 3		Load (v)

DSA File No.:
15-95

DSA Application No.:
03-122615

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APP: 03-122615 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SHEET REFERENCE NOTES

1. REFER TO ENLARGED FLOOR PLAN VIEW ON THIS SHEET FOR WORK IN THIS AREA.
2. (E) LIGHTING IN ROOM TO REMAIN.
3. (E) ELECTRICAL SUB-PANEL TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) CIRCUITS OR MODIFY (E) CIRCUITS AS INDICATED ON THIS SHEET IN AREA OF MODERNIZATION/RENOVATION IN MAIN ADMIN OFFICE/LOBBY, AS WELL AS (N) EXTERIOR LIGHTING NEAR THIS AREA.
4. (E) BUILDING MOUNTED EXTERIOR LIGHTING TO REMAIN UNLESS NOTED OTHERWISE.
5. (E) EXTERIOR LIGHTING CIRCUIT AL-9 IS CONNECTED THRU PHOTO CONTROL ON ROOF FOR NIGHT-LIGHT OPERATION.
6. (N) WALL PACK WITH EMERGENCY EGRESS LIGHTING BATTERY PACK AND INTEGRAL PHOTO-CONTROL. CONNECT TO A CONSTANT HOT LEG OF THE INTERIOR 277V LIGHTING CIRCUIT, AL-3.
7. UTILIZE (E) BRANCH CIRCUIT CONDUIT TO INSTALL NEW LIGHT CIRCUIT FOR LOBBY LIGHTING. REUSE (E) LOBBY LIGHTING 277V CIRCUIT BREAKER.
8. REFER TO SHEET X/E203 FOR LIGHTING CONTROL COMPONENTS SPECIFICATIONS AND WIRING DIAGRAMS.
9. "EM" INDICATES LIGHT WITH INTEGRAL EMERGENCY BATTERY PACK. CONNECT WITH SWITCH LEG AS SHOWN AND CONSTANT HOT TO CHARGE BATTERY.
10. ROUTE UNSWITCHED HOT LEG TO LUMINAIRE FOR CONTINUOUS BATTERY CHARGING.
11. SEE PENDANT LIGHT MOUNTING DETAIL. RUN A TAUT WIRE FROM WALL TO WALL, AND SECURED TO LIGHT SUSPENSION CABLE JUST ABOVE FIXTURE TO PREVENT SWING INTO WALLS (TYP 4 ROWS)

General Notes

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Panama-Buena Vista Union School District
Bakersfield, CA 93313

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LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Rev. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

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Scale: AS NOTED	Drawn By: KH	A/E201
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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APP: 03-122615 INC:
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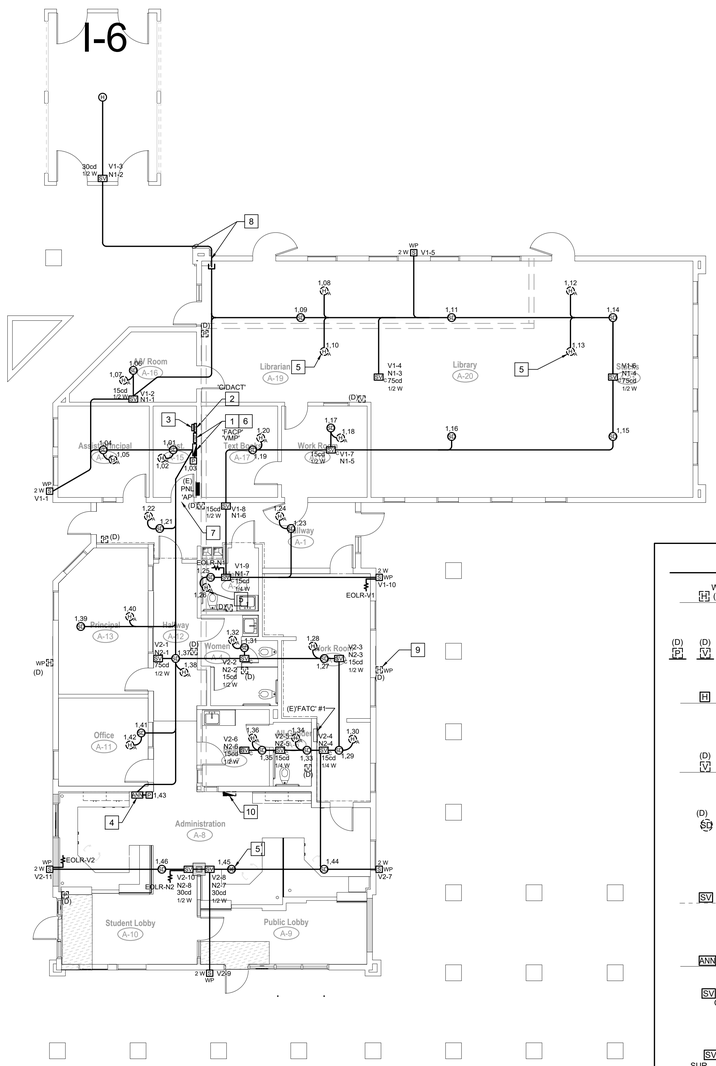
DATE: 07/20/2023

Agency Approval



BUILDING A FIRE ALARM FLOOR PLAN

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

NORTH

FIRE ALARM DEVICE SYMBOLS

"SEE SHEET X/E401" FOR FURTHER INFORMATION

WP (D)	FIRE ALARM, Exterior Horn (EH). PAINTING. Paint exterior cement plaster wall, joint to joint. Paint wall after the (E) FA device is removed and before the new device is installed. Provide a mock-up on the method of installing the new device and sealing the wall from water intrusion.
(D) F (D) V (D) H	ELECTRICAL, New stainless steel cover plate at (E) FA Pull Station or (E) Strobe device that is to be removed from service. Provide oversized plate when required to cover paint cut lines.
H	FIRE ALARM, Interior Horn (IH). PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. When Vinyl Covered Tackboard (TB) occurs, remove and replace a whole sheet of tackboard, and repair the rubber floor base.
(D) V	FIRE ALARM, (E) Visual Device. Remove and replace. See Electrical. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. (AV) Horn/Strobe at similar conditions.
(D) S	FIRE ALARM, (E) Smoke Detector mounted to bottom of acoustical ceiling system. Remove and Replace. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV	FIRE ALARM, New Visual Speaker Device with a Cut-In Electrical Box. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. Paint raceway to match wall color and sheen.
ANN	FIRE ALARM, Annunciator. CUT & PATCH. Cut & Patch (E) wall finish to accommodate a New FA Device. Remove and replace an entire tackboard panel. Match (E) Vinyl Panel, Typ.
SV C	FIRE ALARM, Visual Horn device mounted to bottom of acoustical ceiling system. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV SUR	FIRE ALARM, Visual Horn device mounted to bottom of exposed structure and new exposed to view pathway and pull boxes. PAINTING, Paint the new electrical pathway and match the existing surface color and sheen. Refer to the Ceiling Plan for ceiling conditions.

☐ SHEET REFERENCE NOTES

1. MAIN FIRE ALARM FIRE ALARM CONTROL PANEL "FACP" AND MAIN VOICE EVAC CONTROL PANEL.
2. FIRE ALARM "C/DACT" CELLULAR DIGITAL ALARM COMMUNICATOR TRANSMITTER.
3. FIRE ALARM DOCUMENTATION CABINET. LABEL CABINET, "SYSTEM RECORD DOCUMENTS".
4. FIRE ALARM REMOTE ANNUNCIATOR. COORDINATE EXACT LOCATION WITH THE SCHOOL DISTRICT PRIOR TO INSTALLATION.
5. MOUNT DETECTOR WITHIN 3FT OF PEAK OF ROOF.
6. REFER TO SHEET A/E101 FOR 120V POWER REQUIREMENTS FOR (N) FIRE ALARM EQUIPMENT.
7. PROVIDE SIGNAGE FOR FACP / EVAC PANEL ON DOOR. SEE ARCHITECTURAL.
8. REFER TO REFERENCE NOTE 6 ON SHEET E/E401.
9. EXISTING FIRE ALARM DEVICE TO BE REMOVED (TYP.).
10. EXISTING FIRE ALARM EQUIPMENT TO BE REMOVED.

GENERAL FIRE ALARM PLAN NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, AND CONDUCTORS SHALL BE REMOVED. EXISTING RACEWAYS AND SUPPORTS CAN REMAIN AND BE REUSED FOR INSTALLATION OF NEW FIRE ALARM SYSTEM. STAINLESS STEEL BLANK COVERS SHALL BE INSTALLED ON ALL BOXES NOT USED DURING INSTALLATION OF NEW FIRE ALARM SYSTEM. OVERSIZED BLANK STAINLESS STEEL COVER PLATES SHALL BE USED TO COMPLETELY CONCEAL EXISTING OUTLET BOXES.
2. ALL NEW FIRE ALARM CABLING TO BE INSTALLED IN NEW RACEWAYS AND NEW J-HOOKS, MINIMUM CONDUIT SIZE IS 3/4" WITH CONDUIT FILL NOT TO EXCEED 40%. EXISTING RACEWAYS AND J-HOOKS MAY BE REUSED WHERE AVAILABLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ACCESSIBLE CEILING SPACES AND INACCESSIBLE CEILING SPACES. NEW RACEWAY SHALL BE CONCEALED WERE POSSIBLE.
3. FIRE WATCH - DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.
4. MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN SMOKE DETECTORS AND AIR SUPPLIES. SMOKE DETECTOR INSTALLATION SHALL BE AS CLOSE TO PLAN AS POSSIBLE WITH MEETING THE 3'-0" RULE.
5. CO DETECTOR LOCATIONS - BASED ON AS-BUILT DRAWING AND LIMITED FIELD INVESTIGATION, CO DETECTORS HAVE BEEN PROVIDED AND LOCATED NEAREST TO THE FIRST SUPPLY REGISTER COMING FROM THE HVAC UNIT INTO THE CLASSROOM.
6. ATTIC ACCESS DOORS - WHERE EQUIPMENT IS INSTALLED IN AREAS ABOVE INACCESSIBLE CEILING SPACES, CONTRACTOR TO PROVIDE AND INSTALL REQUIRED ACCESS DOORS FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT, CONTRACTOR TO FIELD VERIFY LOCATIONS WHERE ACCESS DOORS WILL BE REQUIRED, REFER TO ARCHITECTURAL PLANS FOR ACCESS DOOR INFORMATION.
7. CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING AND WALL FINISHES IN KIND AS REQUIRED FOR INSTALLATION OF NEW WORK, FIELD COORDINATE AND VERIFY EXISTING CEILINGS AND WALL FINISHES WITH ARCHITECTURAL PLANS.

General Notes

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THOMA #22-8087

Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
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LICENSED ARCHITECT RICHARD K. FERRERO No. C23724 Exp. 4-30-24 STATE OF CALIFORNIA

Architect

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Revision

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Scale: AS NOTED	Drawn By: KH	A/E401
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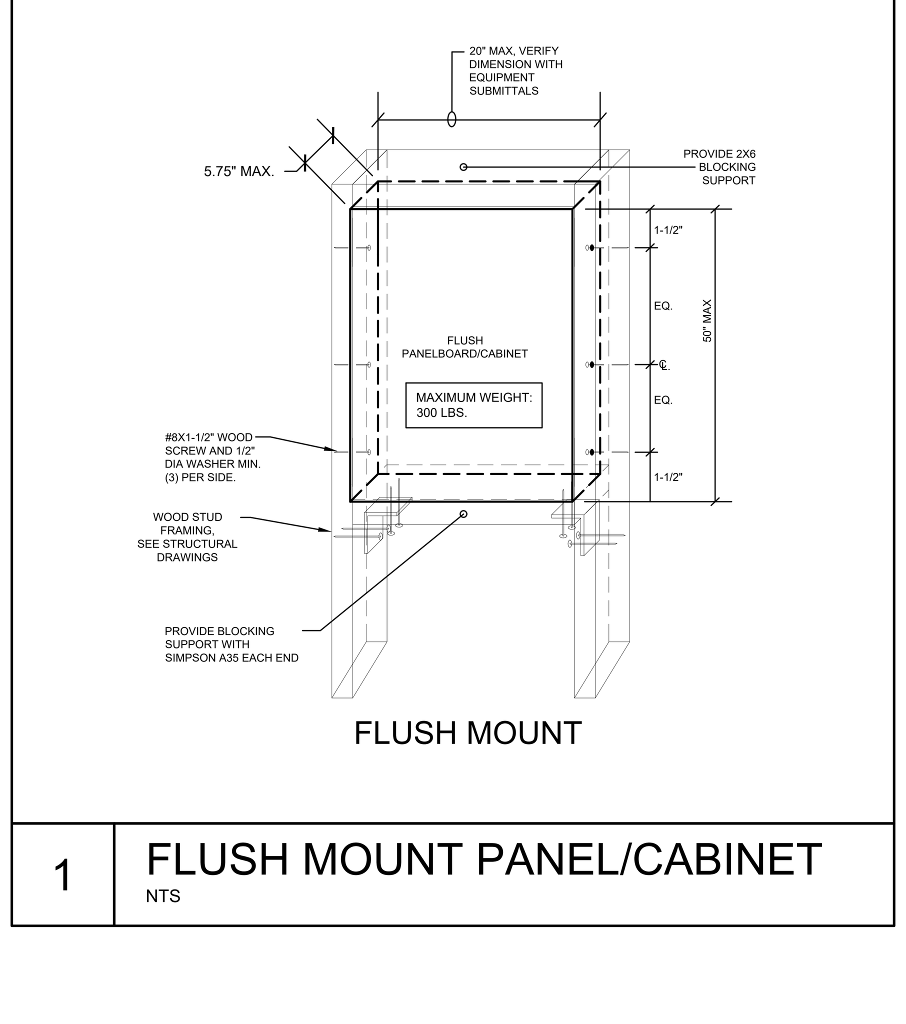


1 FLUSH MOUNT PANEL/CABINET

NTS

BUS RATING: 100A 120/208V, 3PH, 4W
MAIN: 100A MAIN CIRCUIT BREAKER
SPACES: 24 FULL SIZE BOLT-ON CB SPACES
AIC RATING: 10 KAIC PANEL

(E) PANEL
BP

FLUSH MOUNT, NEMA 1
LOCATION: BUILDING B NEAR INTERIOR RESTROOMS
WITH EQUIPMENT GND BUS

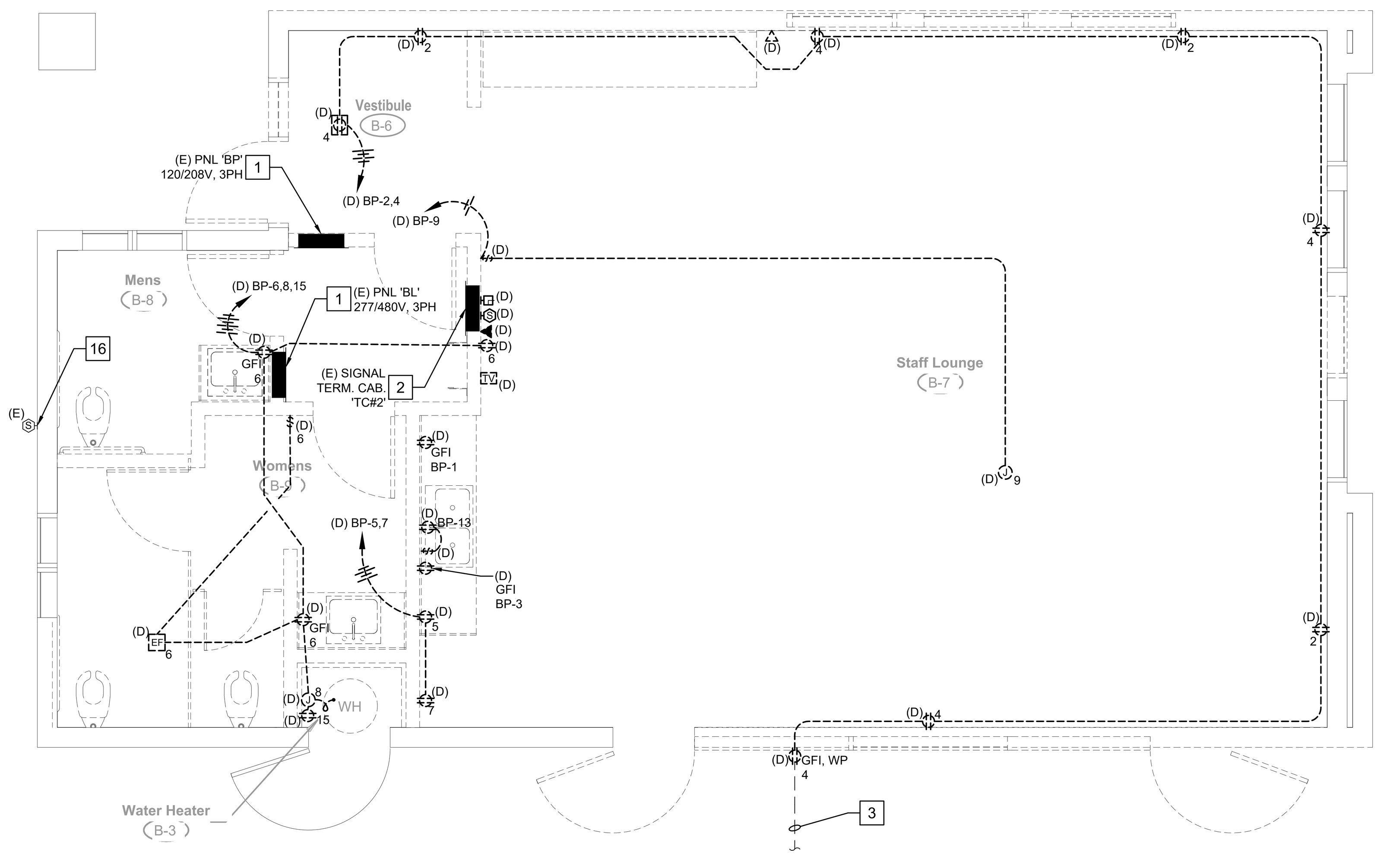
CKT %VD	DIST (FT)	NOTES	LOAD TYPE	CKT	DESCRIPTION	TRIP	POLES	COND SIZE	CONNECTED VA PHASE A	CONNECTED VA PHASE B	CONNECTED VA PHASE C	COND SIZE	POLES	TRIP	DESCRIPTION	CKT	LOAD TYPE	NOTES	DIST (FT)	CKT %VD
0.59%	40		R	1	RECEPT. - BREAKROOM	20	1	12	540 / 900			12	1	20	RECEPT. - VESTIBULE AND CONFERENCE	2	R		40	0.99%
0.99%	30		K	3	MICROWAVE	20	1	12		1200 / 720		12	1	20	RECEPT. - CONFERENCE	4	R		55	1.09%
0.83%	25		K	5	REFRIG.	20	1	12			1200 / 540	12	1	20	RECEPT. - RESTROOMS	6	R		25	0.37%
1.09%	55		R	7	RECEPT. - BREAKROOM	20	1	12	720 / 500			12	1	20	WATER HEATER	8	C		35	0.48%
1.34%	65		C	9	(F) PRINTER/COPIER	20	1	10		1200 / 250		12	1	20	(E) MARQUEE SIGN	10	L		230	1.58%
0.99%	30		K	11	DISPOSAL	20	1	12			1200 / 1000	12	1	20	ELECTRIC HAND DRYER	12	N		20	0.55%
0.54%	55		R	13	EXTERIOR RECEPT.	20	1	12	360 / 1000			12	1	20	ELECTRIC HAND DRYER	14	N		30	0.83%
0.15%	30		R	15	WATER HEATER CLOSET RECEPT.	20	1	12		180 / 696		12	1	15	EXHAUST FAN EF-B1	16	M	1	40	0.77%
0.30%	30	1	R	17	IDF RECEPT.	20	1	12			360				SPACE	18				
				19	SPACE										SPACE	20				
				21	SPACE										SPACE	22				
				23	SPACE										SPACE	24				

	PHASE A	PHASE B	PHASE C
CON:	4020	4246	4300
25%:	125	363	0
SUB:	0	0	0
TOT:	4145	4609	4300
AMPS	35	38	36

PANEL NOTES:
1. PROVIDE (N) CIRCUIT BREAKER IN (E) PANEL.

LOAD (VA)	LOAD TYPE LEGEND	
4320	R	RECEPTACLE
250	L	LIGHTING (125% OF CONNECTED LOAD CEC 215.2)
696	M	MECHANICAL
3600	K	KITCHEN APPLIANCE
2000	N	NON-CONTINUOUS MISC.
1700	C	CONTINUOUS MISC. (125% OF CONNECTED LOAD CEC 215.2)

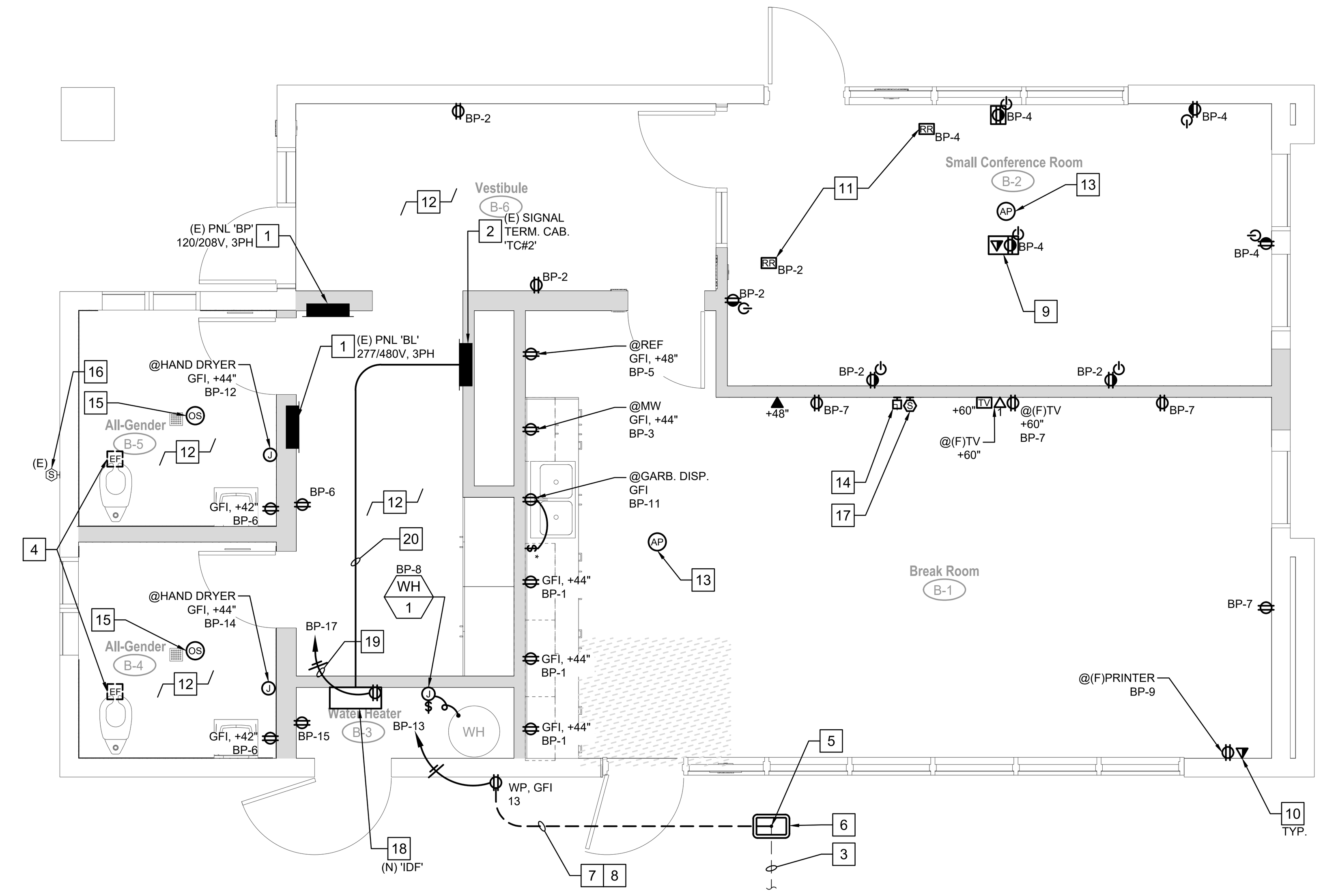
THE EXISTING BRANCH PANELBOARD 'BP' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD CHANGES AS SHOWN ON THESE PLANS.



BUILDING B DEMO POWER FLOOR PLAN

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

NORTH



BUILDING B NEW POWER FLOOR PLAN

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

NORTH

DSA File No.:
15-95

DSA Application No.:
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DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES (APPLY TO BOTH FLOOR PLANS)

1. (E) ELECTRICAL SUB-PANEL TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) CIRCUITS OR MODIFY (E) CIRCUITS AS INDICATED ON THIS SHEET. ADJUST PANEL POSITION IN WALL AS NECESSARY TO ENSURE IT SITS FLUSH WITH (N) FINISHED SURFACE CALLED FOR BY THE ARCHITECT. SEE FLUSH MOUNT CABINET MOUNTING DETAIL. 1-B/E101.
2. (E) SIGNAL TERMINAL CABINET TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). ADJUST PANEL POSITION IN WALL AS NECESSARY TO ENSURE IT SITS FLUSH WITH (N) FINISHED SURFACE CALLED FOR BY THE ARCHITECT. SEE FLUSH MOUNT CABINET MOUNTING DETAIL. 1-B/E101.
3. (E) UNDERGROUND CONDUIT PATHWAY AND BRANCH CIRCUIT TO (E) EXTERIOR WEATHER PROOF RECEPTACLE ON CIRCUIT 'BP-4' TO REMAIN FOR INTERCEPTION AND RE-FEED TO CIRCUIT INDICATED ON NEW FLOOR POWER PLAN. NEW BUILDING WORK SHALL RE-ESTABLISH THE (E) ELECTRICAL CONNECTION TO THIS (E) EXTERIOR RECEPTACLE (APPROXIMATELY 16FT SOUTH OF BUILDING B SOUTHERN EXTERIOR WALL).
4. (N) RESTROOM CEILING EXHAUST FANS POWERED FROM (N) EXHAUST FAN MOTOR ROOFTOP UNIT (REFER TO SHEET B/E301).
5. INTERCEPT (E) UNDERGROUND CONDUIT AND BRANCH CIRCUIT RUN TO (E) EXTERIOR WEATHERPROOF RECEPTACLE UNDER (E) SHADE STRUCTURE (APPROXIMATELY 16FT SOUTH OF BUILDING B SOUTHERN EXTERIOR WALL) WITH (N) IN-GRADE PULLBOX. FIELD VERIFY LOCATION OF (E) UNDERGROUND CONDUIT. PULL (N) #12AWG CU BRANCH CIRCUIT WIRING BETWEEN (E) SOURCE PANEL AND (N) PULLBOX AND SPLICE (E) BRANCH CIRCUIT IN (N) PULLBOX.
6. (N) 10W" X 15"L X 12"D IN-GRADE POWER PULL BOX (B.O.D CHRISTY B09). LABEL LID "ELECTRIC". REFER TO DETAIL 2, SHEET X/E301.
7. (N) 1"C UNDERGROUND FOR POWER TO (E) EXTERIOR RECEPTACLE. PULL (N) #12AWG CU BRANCH CIRCUIT WIRING BETWEEN (E) SOURCE PANEL AND (N) PULLBOX, AND SPLICE TO (E) BRANCH CIRCUIT CONDUCTORS IN (N) PULLBOX. REFER TO DETAIL 1, SHEET X/E301 FOR TRENCH.
8. PROPOSED ROUTE REQUIRES SAW CUT AND PATCH OF (E) HARD SURFACES. REPAIR TO MATCH (E) SURFACE AND THICKNESS. FIELD VERIFY ROUTING– LOCATE AND PROTECT (E) UNDERGROUND UTILITIES.
9. PROVIDE COMBINATION POWER / DATA FLOOR BOX MONUMENT FLUSH IN FLOOR. COORDINATE EXACT LOCATION WITH ARCHITECT / OWNER PRIOR TO ROUGH-IN. DATA OUTLET IN FLOOR BOX SHALL BE 4-PORT WITH (4) DEDICATED CAT6 CABLES HOME-RUNNED TO IDF IN BUILDING.
10. (N) 4-PORT DATA OUTLET WITH (2) DEDICATED CAT6 CABLES (UNLESS NOTED OTHERWISE ON PLAN). INSTALL (N) 5-INCH BACKBOX WITH 2-GANG MUD RING AND (1) 1-1/4"C TO 'IDF' IN BUILDING. CONTRACTOR SHALL PROVIDE LOW VOLTAGE CABLING, TERMINATION AND TESTING.
11. RELAY PACK FOR PLUG LOAD CONTROL, PER CALIFORNIA ENERGY CODE 130.5(d). LOCATE IN A CONCEALED SPACE (NOT NECESSARILY WHERE SHOWN ON PLAN). REFER TO SHEET X/E203 FOR LIGHTING CONTROL SYSTEM LEGEND AND NLIGHT SYSTEM WIRING DIAGRAMS. TEXT ADJACENT TO RELAY PACK SYMBOL INDICATES CIRCUIT NUMBER BEING CONTROLLED.
12. ALL 15A AND 20A, 125V AND 250V NON-LOCKING TYPE RECEPTACLES IN THIS ROOM SHALL BE TAMPER RESISTANT PER CEC 406.12.
13. CEILING MOUNTED WIRELESS ACCESS POINT HARDWARE TO BE PROVIDED BY DISTRICT STAFF AND INSTALLED BY CONTRACTOR. ROUTE (2) CAT6A CABLES TO BISCUIT IN ACCESSIBLE CEILING SPACE. SEE DETAIL 4 ON SHEET X/E302. ROUTE CATEGORY CABLING IN ACCESSIBLE CEILING SPACE TO BUILDING 'IDF' RACK IN CONDUIT.
14. (N) BATTERY OPERATED CLOCK TO MATCH EXISTING SITE CLOCK SYSTEM, CONTRACTOR TO FIELD VERIFY EXISTING CLOCKS ON SITE.
15. (N) CEILING MOUNTED OCCUPANCY SENSOR (LINE VOLTAGE–ACUITY CMR-9, OR APPROVED EQUAL) TO CONTROL ROOFTOP EXHAUST FAN 'EF-B1' ONLY (DOES NOT CONTROL ROOM LIGHTING). FAN SHALL ENERGIZE WHEN ROOM IS OCCUPIED. DELAYED TIME OFF REQUIREMENTS PER MECHANICAL.
16. (E) EXTERIOR PA SPEAKER TO REMAIN. (E) PATHWAY AND CONNECTION SHALL REMAIN INTACT AFTER DEMOLITION WORK IS COMPLETE.
17. (N) WALL MOUNTED SPEAKERS FOR INTERCOM/PA. CONTRACTOR SHALL INSTALL (N) 5-INCH BACKBOX WITH 1-GANG PLASTER RING AND (1) 1-1/4"C TO 'IDF' IN BUILDING. CONTRACTOR SHALL PROVIDE (1) CAT6 CABLE FOR POE CAPABLE DEVICE HOMERUNNED TO 'IDF'. SPEAKER DEVICE TO BE PROVIDED BY DISTRICT STAFF; CONTRACTOR SHALL INSTALL. VERIFY EXACT MOUNTING HEIGHT WITH DISTRICT REPRESENTATIVE PRIOR TO ROUGH-IN.
18. (N) WALL MOUNTED INTERMEDIATE DISTRIBUTION FRAME ' IDF' CABINET PER DISTRICT IT STANDARDS. CONFIRM LOCATION WITH DISTRICT PRIOR TO INSTALLATION. PROVIDE (N) FIBER OPTIC CABLING CONNECTIONS TO (N) FIBER OPTIC TERMINATION POINT IN (N) IDF CABINET, PER COMMUNICATIONS RISER DIAGRAM (SHEET X/E202). REFER TO DETAIL 2/X/E302 FOR CABINET AND CONTENTS INFORMATION AND DETAIL 3/X/E302 FOR MOUNTING.
19. PROVIDE (N) DEDICATED CIRCUIT POWER CONNECTION TO (N) DUPLEX RECEPTACLE IN (N) IDF CABINET (PER DETAIL 2/X/E302).
20. PROVIDE (N)(1) 2"C PATHWAY IN ABOVE CEILING ACCESSIBLE SPACE FOR (N) FIBER DATA CABLING ROUTING, PER COMMUNICATIONS RISER DIAGRAM ON SHEET X/E202.

General Notes

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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA NO. 10757 ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26
THOMA #22-8087
Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING B ELECTRICAL FLOOR PLAN

Drawing

darden architects
ARCHITECTURE PLANNING INTERIORS
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LICENSED ARCHITECT MICHAEL K. FENNACY No. C23724 Ren. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	B/E101
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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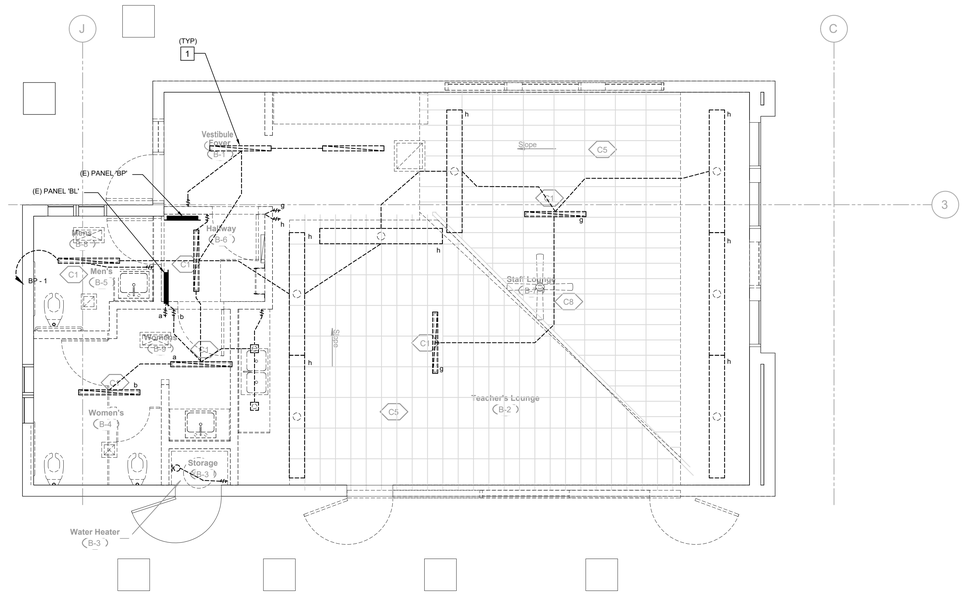
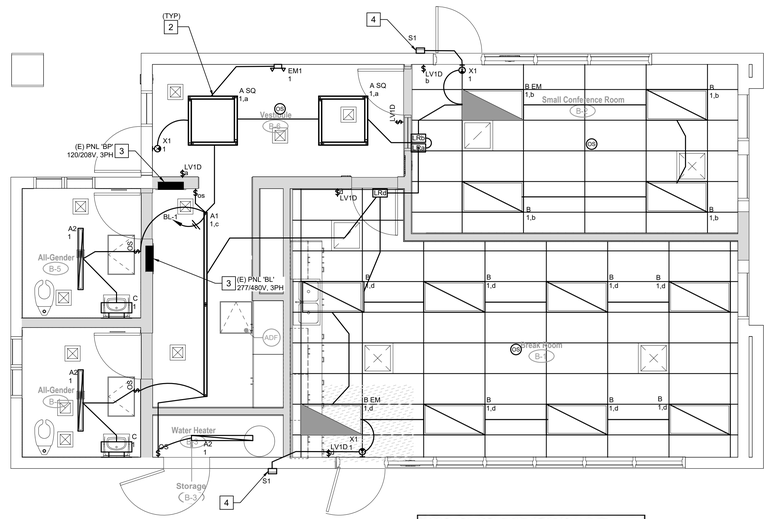


BUILDING B DEMO LIGHTING FLOOR PLAN

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

NORTH



PANEL 'BL' LIGHTING LOAD CHANGE		
Cir. # 1		Load (v)
(E) Load		1417
(N) Load		493
Delta		924

SEE SHEET X/E203 FOR (N) LUMINAIRE SCHEDULE & CONTROLS.

BUILDING B NEW LIGHTING FLOOR PLAN

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

NORTH

DSA File No.:
15-95

DSA Application No.:
03-122615

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES (APPLY TO BOTH FLOOR PLANS)

1. DEMO EXISTING LIGHT FIXTURES, (E) CIRCUITS, (E) CONDUIT PATHWAYS AND (E) SWITCHES.
2. RECONNECT (N) LIGHT FIXTURES WITH (E) CIRCUIT.
3. (E) ELECTRICAL SUB-PANEL TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) CIRCUITS OR MODIFY (E) CIRCUITS AS INDICATED ON THIS SHEET. ADJUST PANEL POSITION IN WALL AS NECESSARY TO ENSURE IT SITS FLUSH WITH (N) FINISHED SURFACE CALLED FOR BY THE ARCHITECT.
4. ROUTE UNSWITCHED HOT LEG TO LUMINAIRE FOR CONTINUOUS BATTERY CHARGING

General Notes

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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26
THOMA #22-8087

Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
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Project

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LICENSED ARCHITECT ROBERT K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	B/E201
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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PBVUSD WARREN JR. HIGH MODERNIZATION 11/2/2022

ELECTRICAL DETAIL FOR HVAC UPGRADES TE# 22-8087

BLDG #	EXISTING - DEMOLITION								
ROOM NO.	HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [EST FLA]	CIRC. BRKR. (A/#P)	WIRE (AWG, CU)	DIS. SW.	NOTES
"B"									
Rm. B2	AC-5	BL-7/9/11	480	3	13.0	20(3)	#12	TBR	D1
Rm. B4	EF -3	BP-6	120	1	4.4	20/1	#12	TBR	D1

NEW WORK (REPLACEMENT EQUIPMENT)										
HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [HP]	CIRC. BRKR. (A/#P) [MOCP]	WIRE (AWG, CU) [MCA]	DIS. SW.	CHANGE IN LOAD (AMPS)	DUCT DETECTOR REQD.	NOTES
HC-B1	BL-7/9/11	480	3	12	20/3 [20A]	#12 [14]	30AS/20AF, 3P	-1.0	NO*	N1, N2, N3
EF-B1	BP-16	120	1	5.8 [.25]	15/1 [15A]	#12 [7.2]	SPST, NF	1.4	N/A	N1, N2, N3

* UNIT SUPPLY ≤2000CFM

DEMOLITION NOTES

D1 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO THE (E) MECHANICAL EQUIPMENT.

TBR = TO BE REMOVED

SPST = SINGLE POLE - SINGLE THROW

NF = NON-FUSED

NEW WORK NOTES

N1 PROVIDE NEW ELECTRICAL CONNECTION TO REPLACEMENT EQUIPMENT.

N2 PROVIDE NEW DISCONNECT SWITCH (FUSED AS NOTED)

N3 PROVIDE NEW BRANCH CIRCUIT CONDUCTORS IN EXISITNG CONDUIT. CONNECT TO NEW BRANCH CIRCUIT BREAKER IN (E) PANEL.

PROPOSED (N) ROOFTOP MECHANICAL EQUIPMENT ON PANEL 'BL' HAS A REDUCED LOAD IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'BL' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.

PROPOSED (N) ROOFTOP MECHANICAL EQUIPMENT ON PANEL 'BP' HAS A MARGINAL INCREASE IN LOAD (1.4A AT 120V, 1PH) IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'BP' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.

ROOF PLAN NOTES

A. PROVIDE SEALTITE POWER & CONTROL CONNECTIONS TO ALL MECHANICAL UNITS.

B. ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.

C. VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

D. PROVIDE INDEPENDENT SUPPORT OF ELECTRICAL DISCONNECT SWITCH(ES) UNLESS THE MECHANICAL UNIT IS DESIGNED FOR MOUNTING THE DISCONNECT SWITCH TO THE UNIT.

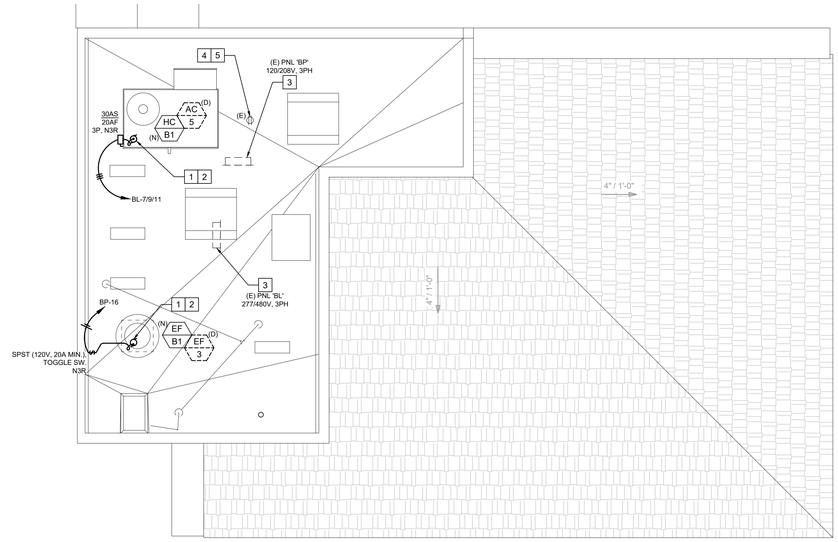
E. NEW CONDUIT (WHERE (E) PATHWAYS ARE FOUND TO BE INADEQUATE) SHALL BE ROUTED IN ACCESSIBLE CEILING SPACE BELOW ROOF DECK.

F. NO ROOF MOUNT CONDUIT IS ALLOWED UNLESS OTHERWISE NOTED, OR WITH PRIOR APPROVAL OF THE ARCHITECT AND DISTRICT REPRESENTATIVE.

G. FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING.

H. ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS WITH APPROVED MATERIALS.

I. NOTE: REQUIRED ROOF LEVEL 120V WP/GFI RECEPTACLES ARE EXISTING TO REMAIN. RECEPTACLES MAY BE MOUNTED ON HVAC EQUIPMENT TO BE REMOVED/REPLACED. IN THAT CASE, PROVIDE A NEW RECEPTACLE, BOX AND W.P. COVER TO REPLACE THE RECEPTACLE. REUSE THE (E) BRANCH CIRCUIT. MOUNT REPLACEMENT RECEPTACLE ON PEDESTAL OR ON NEW HVAC UNIT WHERE ALLOWED.



BUILDING B ELECTRICAL ROOF PLAN

NORTH

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

DSA File No.:
15-95

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Agency Approval

SHEET REFERENCE NOTES

1. DISCONNECT AND REMOVE (E) ROOF MOUNTED MECHANICAL UNIT.
2. (N) ROOF MOUNTED MECHANICAL EQUIPMENT TO REPLACE (E) MECHANICAL EQUIPMENT SLATED FOR DEMOLITION PER MECHANICAL PLANS. PROVIDE (N) ELECTRICAL CONNECTIONS BETWEEN (E) SUB-PANEL(S) IN BUILDING BELOW AND (N) EQUIPMENT AS SHOWN. REUTILIZE (E) CONDUIT PATHWAY (VERIFY 3/4" MINIMUM) WHERE POSSIBLE TO SOURCE PANELS, AND EXTEND CONDUIT AS NECESSARY TO (N) UNIT DISCONNECT.
3. (E) ELECTRICAL SUB-PANEL BELOW INSIDE (E) BUILDING TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) BRANCH CIRCUIT BREAKER AND CONNECTION FOR (N) MECHANICAL UNIT, PER "NEW WORK (REPLACEMENT EQUIPMENT)" TABLE ON THIS SHEET. (N) BREAKER TO MATCH AIC RATING OF (E) BREAKERS IN (E) SUB-PANEL AND SHALL BE HACR RATED.
4. APPROXIMATE LOCATION (E) GFCI. WEATHERPROOF WHILE IN-USE, HVAC SERVICE EQUIPMENT RECEPTACLE TO REMAIN. FIELD VERIFY.
5. HVAC SERVICE EQUIPMENT RECEPTACLE OUTLET REQUIRED WITHIN 25' OF EQUIPMENT, PER CEC 210.63 & CMC 303.8.5(2).

General Notes

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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26

Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

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Project

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LICENSED ARCHITECT JEFFREY K. TOMICH No. C23724 REG. 4-30-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	B/E301
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

K:\ENG\2022\22-8087\22-8087_BE301_BLDG B ELEC ROOF PLN.dwg - Pat - Mar 22, 2023 - 7:47am

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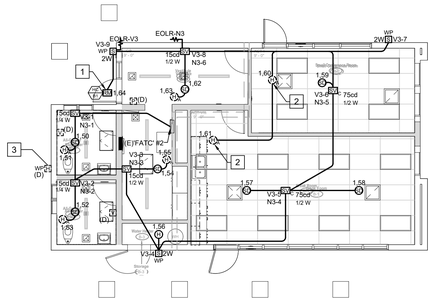
FIRE ALARM DEVICE SYMBOLS
"SEE SHEET X/E401" FOR FURTHER INFORMATION

WP H (D)	FIRE ALARM, Exterior Horn (EH). PAINTING. Paint exterior cement plaster wall, joint to joint. Paint wall after the (E) FA device is removed and before the new device is installed. Provide a mock-up on the method of installing the new device and sealing the wall from water intrusion.
(D) P, (D) V, (D) H	ELECTRICAL, New stainless steel cover plate at (E) FA Pull Station or (E) Strobe device that is to be removed from service. Provide oversized plate when required to cover paint cut lines.
H	FIRE ALARM, Interior Horn (IH). PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. When Vinyl Covered Tackboard (TB) occurs, remove and replace a whole sheet of tackboard, and repair the rubber floor base.
(D) V	FIRE ALARM, (E) Visual Device. Remove and replace. See Electrical. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. (AV) Horn/Strobe at similar conditions.
(D) SD	FIRE ALARM, (E) Smoke Detector mounted to bottom of acoustical ceiling system. Remove and Replace. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV	FIRE ALARM, New Visual Speaker Device with a Cut-In Electrical Box. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. Paint raceway to match wall color and sheen.
ANN	FIRE ALARM, Annunciator. CUT & PATCH. Cut & Patch (E) wall finish to accommodate a New FA Device. Remove and replace an entire tackboard panel. Match (E) Vinyl Panel, Typ.
SV C	FIRE ALARM, Visual Horn device mounted to bottom of acoustical ceiling system. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV SUR	FIRE ALARM, Visual Horn device mounted to bottom of exposed structure and new exposed to view pathway and pull boxes. PAINTING, Paint the new electrical pathway and match the existing surface color and sheen. Refer to the Ceiling Plan for ceiling conditions.



BUILDING B FIRE ALARM FLOOR PLAN

NORTH

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

☐ SHEET REFERENCE NOTES

1. PROVIDE FIRE ALARM RELAY MODULE AT HVAC UNIT TO SHUT DOWN UNIT UPON FIRE ALARM ACTIVATION FIELD VERIFY EXACT LOCATION. SEE DETAIL 3-X/E403
2. MOUNT DETECTOR WITHIN 3FT OF PEAK OF ROOF.
3. EXISTING FIRE ALARM DEVICE TO BE REMOVED (TYP.)

GENERAL FIRE ALARM PLAN NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, AND CONDUCTORS SHALL BE REMOVED. EXISTING RACEWAYS AND SUPPORTS CAN REMAIN AND BE REUSED FOR INSTALLATION OF NEW FIRE ALARM SYSTEM. STAINLESS STEEL BLANK COVERS SHALL BE INSTALLED ON ALL BOXES NOT USED DURING INSTALLATION OF NEW FIRE ALARM SYSTEM. OVERSIZED BLANK STAINLESS STEEL COVER PLATES SHALL BE USED TO COMPLETELY CONCEAL EXISTING OUTLET BOXES.
2. ALL NEW FIRE ALARM CABLING TO BE INSTALLED IN NEW RACEWAYS AND NEW J-HOOKS, MINIMUM CONDUIT SIZE IS 3/4" WITH CONDUIT FILL NOT TO EXCEED 40%. EXISTING RACEWAYS AND J-HOOKS MAY BE REUSED WHERE AVAILABLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ACCESSIBLE CEILING SPACES AND INACCESSIBLE CEILING SPACES. NEW RACEWAY SHALL BE CONCEALED WERE POSSIBLE.
3. FIRE WATCH - DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.
4. MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN SMOKE DETECTORS AND AIR SUPPLIES. SMOKE DETECTOR INSTALLATION SHALL BE AS CLOSE TO PLAN AS POSSIBLE WITH MEETING THE 3'-0" RULE.
5. CO DETECTOR LOCATIONS - BASED ON AS-BUILT DRAWING AND LIMITED FIELD INVESTIGATION, CO DETECTORS HAVE BEEN PROVIDED AND LOCATED NEAREST TO THE FIRST SUPPLY REGISTER COMING FROM THE HVAC UNIT INTO THE CLASSROOM.
6. ATTIC ACCESS DOORS - WHERE EQUIPMENT IS INSTALLED IN AREAS ABOVE INACCESSIBLE CEILING SPACES, CONTRACTOR TO PROVIDE AND INSTALL REQUIRED ACCESS DOORS FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT, CONTRACTOR TO FIELD VERIFY LOCATIONS WHERE ACCESS DOORS WILL BE REQUIRED, REFER TO ARCHITECTURAL PLANS FOR ACCESS DOOR INFORMATION.
7. CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING AND WALL FINISHES IN KIND AS REQUIRED FOR INSTALLATION OF NEW WORK, FIELD COORDINATE AND VERIFY EXISTING CEILINGS AND WALL FINISHES WITH ARCHITECTURAL PLANS.

General Notes

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EXPIRES: 06/30/26
THOMA #22-8087

Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING B FIRE ALARM FLOOR PLAN

Drawing

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LICENSED ARCHITECT JEFFREY K. TERPSTRA No. C29724 Exp. 4-30-24 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	B/E401
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

K:\ENG\2022\22-8087\22-8087_BE401_BLDG B FA FLR PLN.dwg - Pat - Mar 22, 2023 - 7:47am

PBVUSD WARREN JR. HIGH MODERNIZATION 11/2/2022

ELECTRICAL DETAIL FOR HVAC UPGRADES TE# 22-8087

BLDG #	EXISTING - DEMOLITION								
ROOM NO.	HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [EST FLA]	CIRC. BRKR. (A/#P)	WIRE (AWG, CU)	DIS. SW.	NOTES
"C"									
Rm. C8	AC-4	CL- 9/11/13	480	3	11.0	20/3	#12	TBR	D1
Rm. C1	AC-4	CL- 2/4/6	480	3	11.0	20/3	#12	TBR	D1
Rm. C7	AC-4	CL-15/17/19	480	3	11.0	20/3	#12	TBR	D1
Rm. C2	AC-4	CL- 8/10/12	480	3	11.0	20/3	#12	TBR	D1
Rm. C6	AC-4	CL- 21/23/25	480	3	11.0	20/3	#12	TBR	D1
Rm. C3	AC-4	CL- 14/16/18	480	3	11.0	20/3	#12	TBR	D1
Rm. C5	AC-4	CL-26/28/30	480	3	11.0	20/3	#12	TBR	D1
Rm. C4	AC-4	CL- 20/22/24	480	3	11.0	20/3	#12	TBR	D1

	NEW WORK (REPLACEMENT EQUIPMENT)										
HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [HP]	CIRC. BRKR. (A/#P) [MOCP]	WIRE (AWG, CU) [MCA]	DIS. SW.	CHANGE IN LOAD (AMPS)	DUCT DETECTOR REQD.	NOTES
HC-C1	CL- 9/11/13	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
HC-C2	CL- 2/4/6	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
HC-C3	CL-15/17/19	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
HC-C4	CL- 8/10/12	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
HC-C5	CL- 21/23/25	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
HC-C6	CL- 14/16/18	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
HC-C7	CL-26/28/30	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
HC-C8	CL- 20/22/24	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3

DEMOLITION NOTES

D1 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO THE (E) HVAC UNIT.

TBR = TO BE REMOVED

SPST = SINGLE POLE - SINGLE THROW

NF = NON-FUSED

NEW WORK NOTES

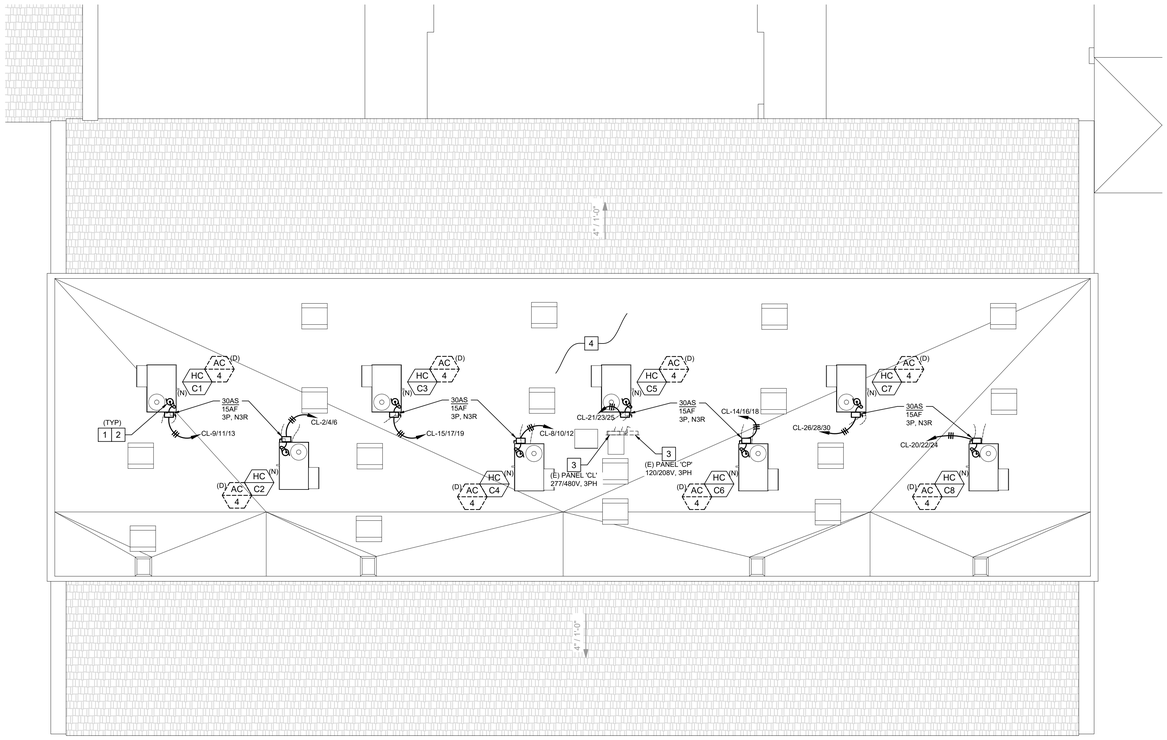
N1 PROVIDE NEW ELECTRICAL CONNECTION TO REPLACEMENT EQUIPMENT.

N2 PROVIDE NEW DISCONNECT SWITCH (FUSED AS NOTED)

N3 PROVIDE NEW BRANCH CIRCUIT CONDUCTORS IN EXISITNG CONDUIT. CONNECT TO NEW BRANCH CIRCUIT BREAKER IN (E) PANEL.

* UNIT SUPPLY ≤2000CFM

PROPOSED (N) ROOFTOP MECHANICAL EQUIPMENT ON PANEL 'CL' HAS A REDUCED LOAD IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'CL' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.



BUILDING C ELECTRICAL ROOF PLAN

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

NORTH

ROOF PLAN NOTES

A. PROVIDE SEALTITE POWER & CONTROL CONNECTIONS TO ALL MECHANICAL UNITS.

B. ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.

C. VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

D. PROVIDE INDEPENDENT SUPPORT OF ELECTRICAL DISCONNECT SWITCH(ES) UNLESS THE MECHANICAL UNIT IS DESIGNED FOR MOUNTING THE DISCONNECT SWITCH TO THE UNIT.

E. NEW CONDUIT (WHERE (E) PATHWAYS ARE FOUND TO BE INADEQUATE) SHALL BE ROUTED IN ACCESSIBLE CEILING SPACE BELOW ROOF DECK.

F. NO ROOF MOUNT CONDUIT IS ALLOWED UNLESS OTHERWISE NOTED, OR WITH PRIOR APPROVAL OF THE ARCHITECT AND DISTRICT REPRESENTATIVE.

G. FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING.

H. ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS WITH APPROVED MATERIALS.

I. NOTE: REQUIRED ROOF LEVEL 120V WP/GFI RECEPTACLES ARE EXISTING AND ARE NOT SHOWN ON THIS PLAN. RECEPTACLES MAY BE MOUNTED ON HVAC EQUIPMENT TO BE REMOVED/REPLACED. IN THAT CASE, PROVIDE A NEW RECEPTACLE, BOX AND W.P. COVER TO REPLACE THE RECEPTACLE. REUSE THE (E) BRANCH CIRCUIT. MOUNT REPLACEMENT RECEPTACLE ON PEDESTAL OR ON NEW HVAC UNIT WHERE ALLOWED.

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

1. DISCONNECT AND REMOVE (E) ROOF MOUNTED MECHANICAL UNIT.
2. (N) ROOF MOUNTED MECHANICAL EQUIPMENT TO REPLACE (E) MECHANICAL EQUIPMENT SLATED FOR DEMOLITION PER MECHANICAL PLANS. PROVIDE (N) ELECTRICAL CONNECTIONS BETWEEN (E) SUB-PANEL(S) IN BUILDING BELOW AND (N) EQUIPMENT AS SHOWN. REUTILIZE (E) CONDUIT PATHWAY (VERIFY 3/4" MINIMUM) WHERE POSSIBLE TO SOURCE PANELS, AND EXTEND CONDUIT AS NECESSARY TO (N) UNIT DISCONNECT.
3. (E) ELECTRICAL SUB-PANEL BELOW INSIDE (E) BUILDING TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) BRANCH CIRCUIT BREAKER AND CONNECTION FOR (N) MECHANICAL UNIT, PER "NEW WORK (REPLACEMENT EQUIPMENT)" TABLE ON THIS SHEET. (N) BREAKER TO MATCH AIC RATING OF (E) BREAKERS IN (E) SUB-PANEL AND SHALL BE HACR RATED.
4. CONCERNING HVAC EQUIPMENT SERVICE RECEPTACLES, REFER TO ROOF PLAN NOTES ITEM #I ON THIS SHEET. AN HVAC SERVICE EQUIPMENT RECEPTACLE OUTLET IS REQUIRED WITHIN 25' OF EQUIPMENT, PER CEC 210.63 & CMC 303.8.5(2).

General Notes

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Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING C ELECTRICAL ROOF PLAN

Drawing

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LICENSED ARCHITECT RICHARD K. FUSATO No. C23724 Exp. 4-30-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: PM

Drawn By: KH

Checked By: JT

Reviewed By: JT

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Scale: AS NOTED

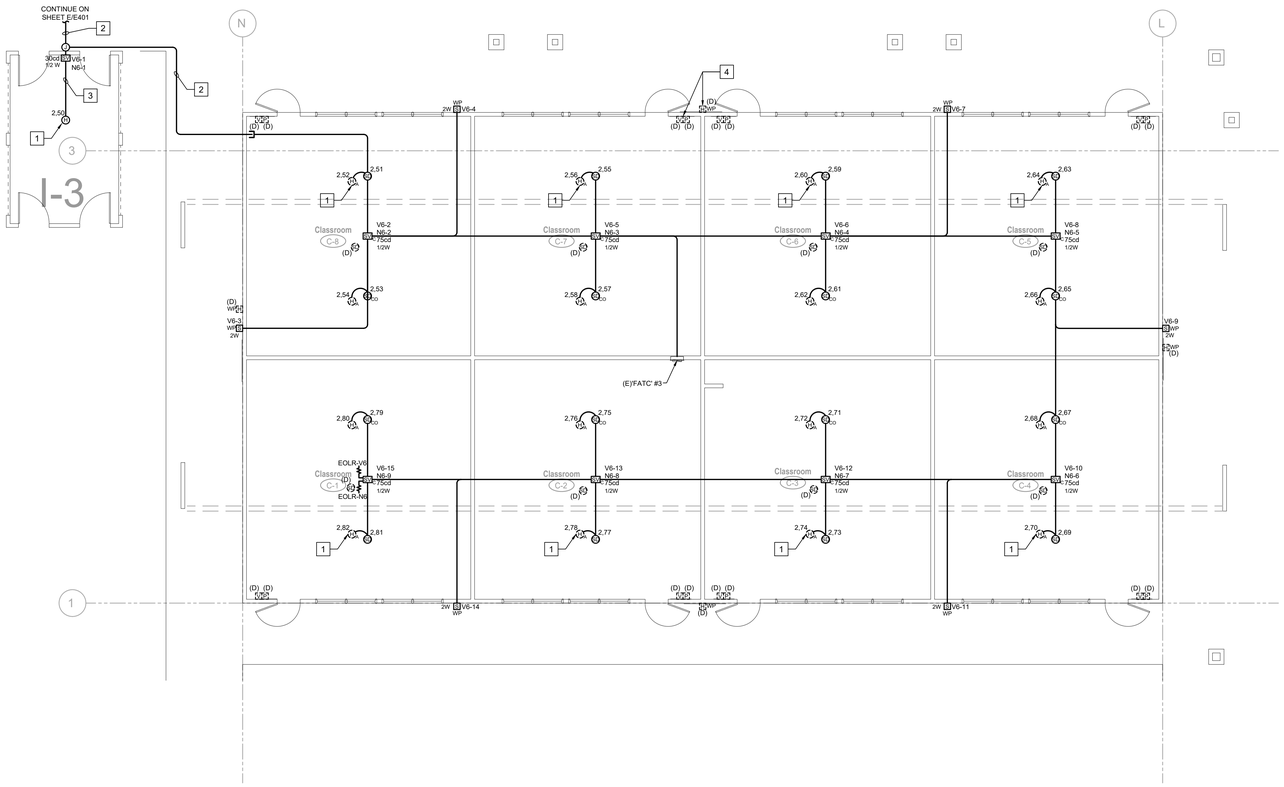
Project Number: 2228

Date: 03/22/2023

C/E301

FIRE ALARM DEVICE SYMBOLS
"SEE SHEET X/E401" FOR FURTHER INFORMATION

WP H (D)	FIRE ALARM, Exterior Horn (EH). PAINTING. Paint exterior cement plaster wall, joint to joint. Paint wall after the (E) FA device is removed and before the new device is installed. Provide a mock-up on the method of installing the new device and sealing the wall from water intrusion.
(D) P, (D) V, (D) H	ELECTRICAL, New stainless steel cover plate at (E) FA Pull Station or (E) Strobe device that is to be removed from service. Provide oversized plate when required to cover paint cut lines.
H	FIRE ALARM, Interior Horn (IH). PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. When Vinyl Covered Tackboard (TB) occurs, remove and replace a whole sheet of tackboard, and repair the rubber floor base.
(D) V	FIRE ALARM, (E) Visual Device. Remove and replace. See Electrical. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. (AV) Horn/Strobe at similar conditions.
(D) SD	FIRE ALARM, (E) Smoke Detector mounted to bottom of acoustical ceiling system. Remove and Replace. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV	FIRE ALARM, New Visual Speaker Device with a Cut-In Electrical Box. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. Paint raceway to match wall color and sheen.
ANN	FIRE ALARM, Annunciator. CUT & PATCH. Cut & Patch (E) wall finish to accommodate a New FA Device. Remove and replace an entire tackboard panel. Match (E) Vinyl Panel, Typ.
SV C	FIRE ALARM, Visual Horn device mounted to bottom of acoustical ceiling system. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV SUR	FIRE ALARM, Visual Horn device mounted to bottom of exposed structure and new exposed to view pathway and pull boxes. PAINTING, Paint the new electrical pathway and match the existing surface color and sheen. Refer to the Ceiling Plan for ceiling conditions.



BUILDING C & I-3 FIRE ALARM FLOOR PLAN
SCALE: 1/8"=1'-0"

NORTH

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

1. MOUNT DETECTOR WITHIN 3FT OF THE PEAK OF THE ROOF.
2. PROVIDE (1)1" FIRE ALARM CONDUIT MOUNTED UNDER COVERED WALKWAY, STUB INTO BUILD ABOVE ACCESSIBLE CEILING SPACE. PAINT TO MATCH.
3. INTERIOR SURFACE MOUNTED RACEWAY SHALL BE WIREMOLD OR APPROVED EQUAL AND SHALL BE SECURELY MOUNTED TO STRUCTURE WITH MANUFACTURES RECOMMENDED FASTENERS.
4. EXISTING FIRE ALARM DEVICE TO BE REMOVED (TYP.).

GENERAL FIRE ALARM PLAN NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, AND CONDUCTORS SHALL BE REMOVED. EXISTING RACEWAYS AND SUPPORTS CAN REMAIN AND BE REUSED FOR INSTALLATION OF NEW FIRE ALARM SYSTEM. STAINLESS STEEL BLANK COVERS SHALL BE INSTALLED ON ALL BOXES NOT USED DURING INSTALLATION OF NEW FIRE ALARM SYSTEM. OVERSIZED BLANK STAINLESS STEEL COVER PLATES SHALL BE USED TO COMPLETELY CONCEAL EXISTING OUTLET BOXES.
2. ALL NEW FIRE ALARM CABLING TO BE INSTALLED IN NEW RACEWAYS AND NEW J-HOOKS, MINIMUM CONDUIT SIZE IS 3/4" WITH CONDUIT FILL NOT TO EXCEED 40%. EXISTING RACEWAYS AND J-HOOKS MAY BE REUSED WHERE AVAILABLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ACCESSIBLE CEILING SPACES AND INACCESSIBLE CEILING SPACES. NEW RACEWAY SHALL BE CONCEALED WERE POSSIBLE.
3. FIRE WATCH - DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.
4. MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN SMOKE DETECTORS AND AIR SUPPLIES. SMOKE DETECTOR INSTALLATION SHALL BE AS CLOSE TO PLAN AS POSSIBLE WITH MEETING THE 3'-0" RULE.
5. CO DETECTOR LOCATIONS - BASED ON AS-BUILT DRAWING AND LIMITED FIELD INVESTIGATION, CO DETECTORS HAVE BEEN PROVIDED AND LOCATED NEAREST TO THE FIRST SUPPLY REGISTER COMING FROM THE HVAC UNIT INTO THE CLASSROOM.
6. ATTIC ACCESS DOORS - WHERE EQUIPMENT IS INSTALLED IN AREAS ABOVE INACCESSIBLE CEILING SPACES, CONTRACTOR TO PROVIDE AND INSTALL REQUIRED ACCESS DOORS FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT, CONTRACTOR TO FIELD VERIFY LOCATIONS WHERE ACCESS DOORS WILL BE REQUIRED, REFER TO ARCHITECTURAL PLANS FOR ACCESS DOOR INFORMATION.
7. CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING AND WALL FINISHES IN KIND AS REQUIRED FOR INSTALLATION OF NEW WORK, FIELD COORDINATE AND VERIFY EXISTING CEILINGS AND WALL FINISHES WITH ARCHITECTURAL PLANS.

General Notes

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EXPIRES: 06/30/26
THOMA #22-8087
Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING C & I-3 FIRE ALARM FLOOR PLAN

Drawing

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LICENSED ARCHITECT RICHARD K. FERRERO No. C23724 Exp. 4-30-23 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	C/E401
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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FIRE ALARM DEVICE SYMBOLS
"SEE SHEET X/E401" FOR FURTHER INFORMATION

WP [H] (D)	FIRE ALARM, Exterior Horn (EH). PAINTING. Paint exterior cement plaster wall, joint to joint. Paint wall after the (E) FA device is removed and before the new device is installed. Provide a mock-up on the method of installing the new device and sealing the wall from water intrusion.
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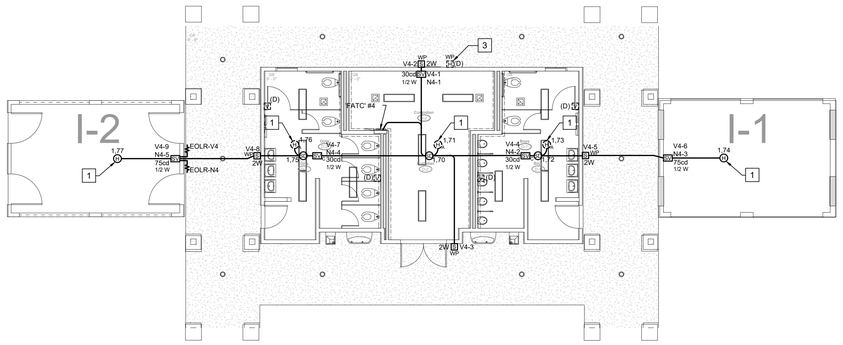
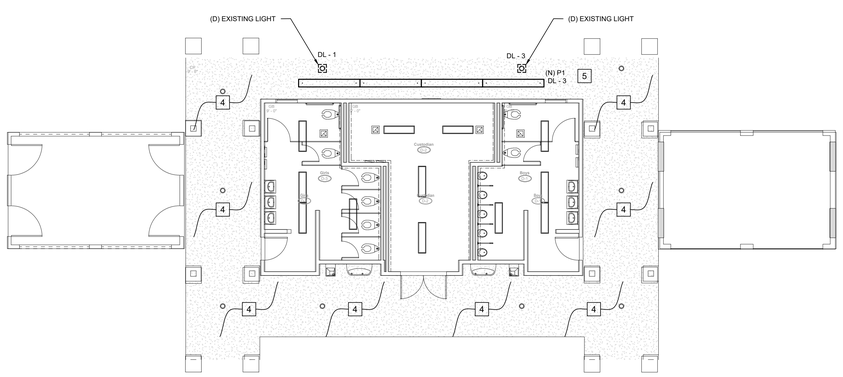
[H]	FIRE ALARM, Interior Horn (IH). PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. When Vinyl Covered Tackboard (TB) occurs, remove and replace a whole sheet of tackboard, and repair the rubber floor base.
(D) [V]	FIRE ALARM, (E) Visual Device. Remove and replace. See Electrical. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. (AV) Horn/Strobe at similar conditions.
(D) (SD)	FIRE ALARM, (E) Smoke Detector mounted to bottom of acoustical ceiling system. Remove and Replace. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
[SV]	FIRE ALARM, New Visual Speaker Device with a Cut-In Electrical Box. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. Paint raceway to match wall color and sheen.
[ANN]	FIRE ALARM, Annunciator. CUT & PATCH. Cut & Patch (E) wall finish to accommodate a New FA Device. Remove and replace an entire tackboard panel. Match (E) Vinyl Panel, Typ.
[SV] C	FIRE ALARM, Visual Horn device mounted to bottom of acoustical ceiling system. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
[SV] SUR	FIRE ALARM, Visual Horn device mounted to bottom of exposed structure and new exposed to view pathway and pull boxes. PAINTING, Paint the new electrical pathway and match the existing surface color and sheen. Refer to the Ceiling Plan for ceiling conditions.



BUILDING D, I-1 AND I-2 FIRE ALARM FLOOR PLAN
SCALE: 1/8"=1'-0"
NORTH



BUILDING D - LIGHTING FLOOR PLAN
SCALE: 1/8"=1'-0"
NORTH

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SHEET REFERENCE NOTES

1. MOUNT DETECTOR WITHIN 3FT OF PEAK OF ROOF.
2. PROVIDE (1)1" FIRE ALARM CONDUIT MOUNTED UNDER COVERED WALKWAY AS SHOWN. PAINT TO MATCH.
3. EXISTING FIRE ALARM DEVICE TO BE REMOVED (TYP.).
4. (E) BUILDING MOUNTED EXTERIOR LIGHTING TO REMAIN UNLESS NOTED OTHERWISE.
5. SHEET METAL WILL BE INSTALLED TO COVER OVER (D) FIXTURES.

General Notes

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EXPIRES: 06/30/26
Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING D FIRE ALARM FLOOR PLAN

Drawing

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LICENSED ARCHITECT BRADLEY K. FERRARO No. C23724 Exp. 4-30-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	D/E401
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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PBVUSD WARREN JR. HIGH MODERNIZATION 11/2/2022

ELECTRICAL DETAIL FOR HVAC UPGRADES TE# 22-8087

BLDG #	EXISTING - DEMOLITION									NEW WORK (REPLACEMENT EQUIPMENT)										
ROOM NO.	HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [EST FLA]	CIRC. BRKR. (A/#P)	WIRE (AWG, CU)	DIS. SW.	NOTES	HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [HP]	CIRC. BRKR. (A/#P) [MOCP]	WIRE (AWG, CU) [MCA]	DIS. SW.	CHANGE IN LOAD (AMPS)	DUCT DETECTOR REQD.	NOTES
"E"																				
Rm. E8	AC-4	EL- 9/11/13	480	3	11.0	20/3	#12	TBR	D1	HC-E1	EL- 9/11/13	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
Rm. E1	AC-4	EL- 2/4/6	480	3	11.0	20/3	#12	TBR	D1	HC-E2	EL- 2/4/6	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
Rm. E7	AC-4	EL - 15/17/19	480	3	11.0	20/3	#12	TBR	D1	HC-E3	EL - 15/17/19	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
Rm. E2	AC-4	EL- 8/10/12	480	3	11.0	20/3	#12	TBR	D1	HC-E4	EL- 8/10/12	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
Rm. E6	AC-4	EL- 21/23/25	480	3	11.0	20/3	#12	TBR	D1	HC-E5	EL- 21/23/25	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
Rm. E3	AC-4	EL - 14/16/18	480	3	11.0	20/3	#12	TBR	D1	HC-E6	EL - 14/16/18	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
Rm. E5	AC-4	EL - 26/28/30	480	3	11.0	20/3	#12	TBR	D1	HC-E7	EL - 26/28/30	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
Rm. E4	AC-4	EL - 20/22/24	480	3	11.0	20/3	#12	TBR	D1	HC-E8	EL - 20/22/24	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3

DEMOLITION NOTES

D1 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO THE (E) HVAC UNIT.

TBR = TO BE REMOVED

SPST = SINGLE POLE - SINGLE THROW

NF = NON-FUSED

NEW WORK NOTES

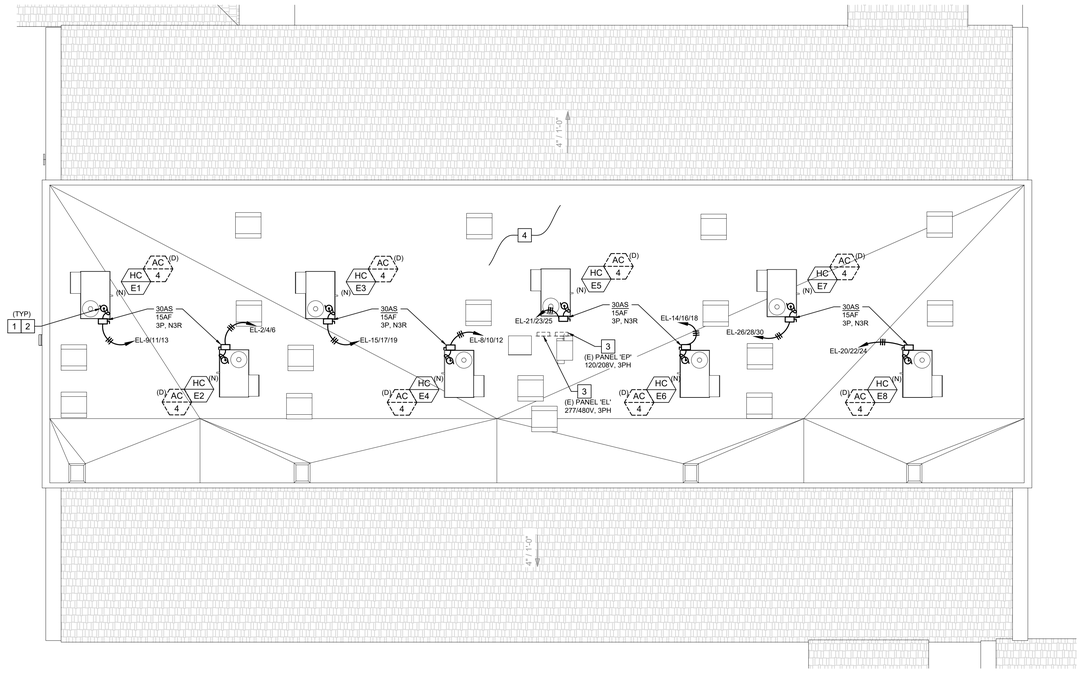
N1 PROVIDE NEW ELECTRICAL CONNECTION TO REPLACEMENT EQUIPMENT.

N2 PROVIDE NEW DISCONNECT SWITCH (FUSED AS NOTED)

N3 PROVIDE NEW BRANCH CIRCUIT CONDUCTORS IN EXISITNG CONDUIT. CONNECT TO NEW BRANCH CIRCUIT BREAKER IN (E) PANEL.

* UNIT SUPPLY ≤2000CFM

PROPOSED (N) ROOFTOP MECHANICAL EQUIPMENT ON PANEL 'EL' HAS A REDUCED LOAD IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'EL' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.



BUILDING E ELECTRICAL ROOF PLAN

NORTH

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

ROOF PLAN NOTES

A. PROVIDE SEALTITE POWER & CONTROL CONNECTIONS TO ALL MECHANICAL UNITS.

B. ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.

C. VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

D. PROVIDE INDEPENDENT SUPPORT OF ELECTRICAL DISCONNECT SWITCH(ES) UNLESS THE MECHANICAL UNIT IS DESIGNED FOR MOUNTING THE DISCONNECT SWITCH TO THE UNIT.

E. NEW CONDUIT (WHERE (E) PATHWAYS ARE FOUND TO BE INADEQUATE) SHALL SHALL ROUTED IN ACCESSIBLE CEILING SPACE BELOW ROOF DECK.

F. NO ROOF MOUNT CONDUIT IS ALLOWED UNLESS OTHERWISE NOTED, OR WITH PRIOR APPROVAL OF THE ARCHITECT AND DISTRICT REPRESENTATIVE.

G. FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING.

H. ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS WITH APPROVED MATERIALS.

I. NOTE: REQUIRED ROOF LEVEL 120V WP/GFI RECEPTACLES ARE EXISTING AND ARE NOT SHOWN ON THIS PLAN. RECEPTACLES MAY BE MOUNTED ON HVAC EQUIPMENT TO BE REMOVED/REPLACED. IN THAT CASE, PROVIDE A NEW RECEPTACLE, BOX AND W.P. COVER TO REPLACE THE RECEPTACLE. REUSE THE (E) BRANCH CIRCUIT. MOUNT REPLACEMENT RECEPTACLE ON PEDESTAL OR ON NEW HVAC UNIT WHERE ALLOWED.

DSA File No.:
15-95

DSA Application No.:
03-122615

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DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

1. DISCONNECT AND REMOVE (E) ROOF MOUNTED MECHANICAL UNIT.
2. (N) ROOF MOUNTED MECHANICAL EQUIPMENT TO REPLACE (E) MECHANICAL EQUIPMENT SLATED FOR DEMOLITION PER MECHANICAL PLANS. PROVIDE (N) ELECTRICAL CONNECTIONS BETWEEN (E) SUB-PANEL(S) IN BUILDING BELOW AND (N) EQUIPMENT AS SHOWN. REUTILIZE (E) CONDUIT PATHWAY (VERIFY 3/4" MINIMUM) WHERE POSSIBLE TO SOURCE PANELS, AND EXTEND CONDUIT AS NECESSARY TO (N) UNIT DISCONNECT.
3. (E) ELECTRICAL SUB-PANEL BELOW INSIDE (E) BUILDING TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) BRANCH CIRCUIT BREAKER AND CONNECTION FOR (N) MECHANICAL UNIT, PER "NEW WORK (REPLACEMENT EQUIPMENT)" TABLE ON THIS SHEET. (N) BREAKER TO MATCH AIC RATING OF (E) BREAKERS IN (E) SUB-PANEL AND SHALL BE HACR RATED.
4. CONCERNING HVAC EQUIPMENT SERVICE RECEPTACLES, REFER TO ROOF PLAN NOTES ITEM #I ON THIS SHEET. AN HVAC SERVICE EQUIPMENT RECEPTACLE OUTLET IS REQUIRED WITHIN 25' OF EQUIPMENT, PER CEC 210.63 & CMC 303.8.5(2).

General Notes

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EXPIRES: 06/30/26

Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING E ELECTRICAL ROOF PLAN

Drawing

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ARCHITECTURE
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LICENSED ARCHITECT RODNEY K. A. DARDEN No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	E/E301
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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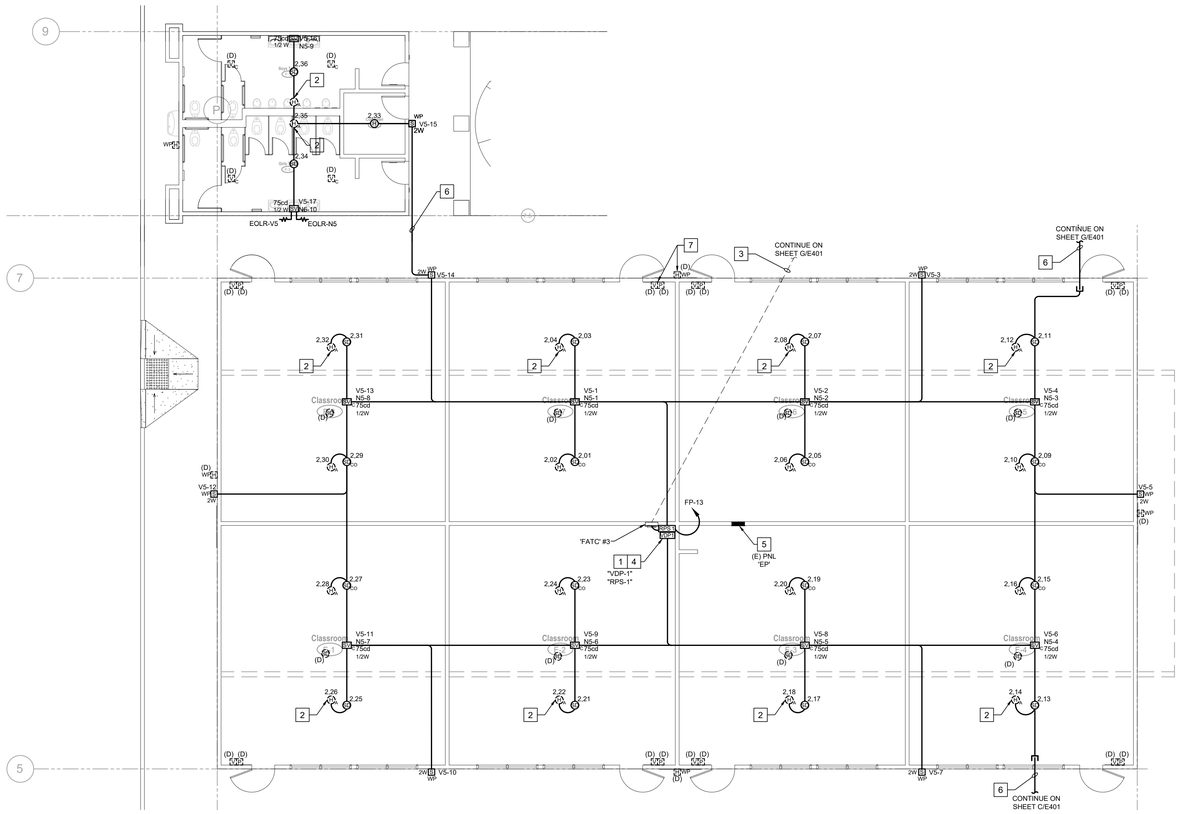

BUILDING E & F FIRE ALARM FLOOR PLAN

NORTH

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

FIRE ALARM DEVICE SYMBOLS

"SEE SHEET X/E401" FOR FURTHER INFORMATION

WP [H] (D)	FIRE ALARM, Exterior Horn (EH). PAINTING. Paint exterior cement plaster wall, joint to joint. Paint wall after the (E) FA device is removed and before the new device is installed. Provide a mock-up on the method of installing the new device and sealing the wall from water intrusion.
(D) [P] (D) [V] (D) [H]	ELECTRICAL, New stainless steel cover plate at (E) FA Pull Station or (E) Strobe device that is to be removed from service. Provide oversized plate when required to cover paint cut lines.
[H]	FIRE ALARM, Interior Horn (IH). PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. When Vinyl Covered Tackboard (TB) occurs, remove and replace a whole sheet of tackboard, and repair the rubber floor base.
(D) [V]	FIRE ALARM, (E) Visual Device. Remove and replace. See Electrical. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. (AV) Horn/Strobe at similar conditions.
(D) [S]	FIRE ALARM, (E) Smoke Detector mounted to bottom of acoustical ceiling system. Remove and Replace. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
[SV]	FIRE ALARM, New Visual Speaker Device with a Cut-In Electrical Box. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. Paint raceway to match wall color and sheen.
[ANN]	FIRE ALARM, Annunciator. CUT & PATCH. Cut & Patch (E) wall finish to accommodate a New FA Device. Remove and replace an entire tackboard panel. Match (E) Vinyl Panel, Typ.
[SV] C	FIRE ALARM, Visual Horn device mounted to bottom of acoustical ceiling system. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
[SV] SUR	FIRE ALARM, Visual Horn device mounted to bottom of exposed structure and new exposed to view pathway and pull boxes. PAINTING, Paint the new electrical pathway and match the existing surface color and sheen. Refer to the Ceiling Plan for ceiling conditions.

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DATE: 07/20/2023

Agency Approval

SHEET REFERENCE NOTES

1. FIRE ALARM VOICE DISTRIBUTION PANEL 'VDP-1' AND REMOTE POWER SUPPLY 'RPS-1'. SEE FIRE ALARM RISER DIAGRAM X-X/F401.
2. MOUNT DETECTOR WITHIN 3FT OF THE PEAK OF THE ROOF.
3. EXISTING UNDERGROUND FIRE ALARM CONDUITS. SEE FIRE ALARM SITE PLAN SHEET SD/E102.
4. PROVIDE (N) 120V POWER CONNECTION ((1) 3/4"C - (2) #12 AND (1) #12 GND), TO POWER (N) FIRE ALARM EQUIPMENT--CONNECT TO (E) SPARE 20A/1P CIRCUIT BREAKER IN (E) PANEL 'EP' OR PROVIDE (N) 20A/1P BREAKER. CONTRACTOR SHALL ENSURE CIRCUIT BREAKER HAS RED, LOCKING HANDLE.
5. (E) ELECTRICAL PANEL TO REMAIN. REFER TO OTHER REFERENCE NOTES ON THIS SHEET FOR (N) 120V POWER CONNECTIONS TO (N) FIRE ALARM EQUIPMENT.
6. PROVIDE (1)1" FIRE ALARM CONDUIT MOUNTED UNDER COVERED WALKWAY, STUB INTO BUILD ABOVE ACCESSIBLE CEILING SPACE. PAINT TO MATCH.
7. EXISTING FIRE ALARM DEVICE TO BE REMOVED (TYP.)

GENERAL FIRE ALARM PLAN NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, AND CONDUCTORS SHALL BE REMOVED. EXISTING RACEWAYS AND SUPPORTS CAN REMAIN AND BE REUSED FOR INSTALLATION OF NEW FIRE ALARM SYSTEM. STAINLESS STEEL BLANK COVERS SHALL BE INSTALLED ON ALL BOXES NOT USED DURING INSTALLATION OF NEW FIRE ALARM SYSTEM. OVERSIZED BLANK STAINLESS STEEL COVER PLATES SHALL BE USED TO COMPLETELY CONCEAL EXISTING OUTLET BOXES.
2. ALL NEW FIRE ALARM CABLING TO BE INSTALLED IN NEW RACEWAYS AND NEW J-HOOKS, MINIMUM CONDUIT SIZE IS 3/4" WITH CONDUIT FILL NOT TO EXCEED 40%. EXISTING RACEWAYS AND J-HOOKS MAY BE REUSED WHERE AVAILABLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ACCESSIBLE CEILING SPACES AND INACCESSIBLE CEILING SPACES. NEW RACEWAY SHALL BE CONCEALED WERE POSSIBLE.
3. FIRE WATCH - DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.
4. MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN SMOKE DETECTORS AND AIR SUPPLIES. SMOKE DETECTOR INSTALLATION SHALL BE AS CLOSE TO PLAN AS POSSIBLE WITH MEETING THE 3'-0" RULE.
5. CO DETECTOR LOCATIONS - BASED ON AS-BUILT DRAWING AND LIMITED FIELD INVESTIGATION, CO DETECTORS HAVE BEEN PROVIDED AND LOCATED NEAREST TO THE FIRST SUPPLY REGISTER COMING FROM THE HVAC UNIT INTO THE CLASSROOM.
6. ATTIC ACCESS DOORS - WHERE EQUIPMENT IS INSTALLED IN AREAS ABOVE INACCESSIBLE CEILING SPACES, CONTRACTOR TO PROVIDE AND INSTALL REQUIRED ACCESS DOORS FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT, CONTRACTOR TO FIELD VERIFY LOCATIONS WHERE ACCESS DOORS WILL BE REQUIRED, REFER TO ARCHITECTURAL PLANS FOR ACCESS DOOR INFORMATION.
7. CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING AND WALL FINISHES IN KIND AS REQUIRED FOR INSTALLATION OF NEW WORK, FIELD COORDINATE AND VERIFY EXISTING CEILINGS AND WALL FINISHES WITH ARCHITECTURAL PLANS.

General Notes

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EXPIRES: 06/30/26
THOMA #22-8087
Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING E & F FIRE ALARM FLOOR PLAN

Drawing

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LICENSED ARCHITECT TRUPREET K. DHALIWAL No. C23724 Exp. 4-30-24 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	E/E401
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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PBVUSD WARREN JR. HIGH MODERNIZATION 11/2/2022

ELECTRICAL DETAIL FOR HVAC UPGRADES TE# 22-8087

BLDG #	EXISTING - DEMOLITION									NEW WORK (REPLACEMENT EQUIPMENT)										
ROOM NO.	HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [EST FLA]	CIRC. BRKR. (A/#P)	WIRE (AWG, CU)	DIS. SW.	NOTES	HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [HP]	CIRC. BRKR. (A/#P) [MOCP]	WIRE (AWG, CU) [MCA]	DIS. SW.	CHANGE IN LOAD (AMPS)	DUCT DETECTOR REQD.	NOTES
"G"																				
Rm. G12	AC-5	GL- 8/10/12	480	3	13.0	25/3	#8	TBR	D1	HC-G1	GL- 8/10/12	480	3	12	20/3 [20A]	#12 [14]	30AS/20AF, 3P	-1.0	NO*	N1, N2, N3
Rm. G6	AC-4	GL- 2/4/6	480	3	11.0	20/3	#8	TBR	D1	HC-G2	GL- 2/4/6	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
Rm. G6	AC-1.5	GP - 22/24	208	1	13.8	20/2	#12	TBR	D1	HC-G3	GP - 22/24	208	1	16.5	30/2 [30A]	#10 [19.4]	30AS/30AF, 2P	2.7	NO*	N1, N2, N3
Rm. G11	AC-5	GL- 20/22/24	480	3	13.0	25/3	#8	TBR	D1	HC-G4	GL- 20/22/24	480	3	12	20/3 [20A]	#12 [14]	30AS/20AF, 3P	-1.0	NO*	N1, N2, N3
Rm. G5	AC-4	GL- 26/28/30	480	3	11.0	20/3	#8	TBR	D1	HC-G5	GL- 26/28/30	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
Rm. G10	AC-5	GL- 14/16/18	480	3	13.0	25/3	#8	TBR	D1	HC-G6	GL- 14/16/18	480	3	12	20/3 [20A]	#12 [14]	30AS/20AF, 3P	-1.0	NO*	N1, N2, N3
Rm.G4	AC-4	GL- 13/15/17	480	3	11.0	20/3	#8	TBR	D1	HC-G7	GL- 13/15/17	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N3
Rm. G4	AC-1.5	GP - 18/20	208	1	13.8	20/2	#12	TBR	D1	HC-G8	GP - 18/20	208	1	16.5	30/2 [30A]	#10 [19.4]	30AS/30AF, 2P	2.7	NO*	N1, N2, N3

* UNIT SUPPLY ≤2000CFM

DEMOLITION NOTES

D1 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO THE (E) HVAC UNIT.

TBR = TO BE REMOVED

SPST = SINGLE POLE - SINGLE THROW

NF = NON-FUSED

NEW WORK NOTES

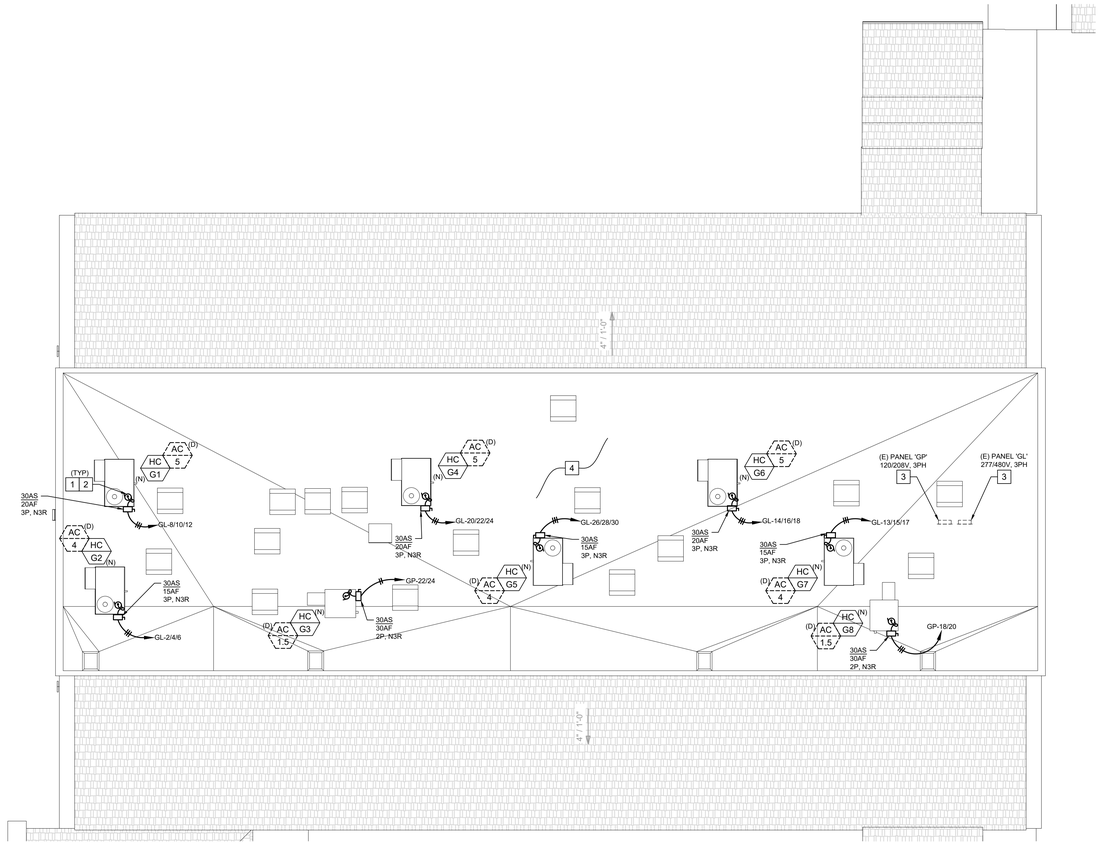
N1 PROVIDE NEW ELECTRICAL CONNECTION TO REPLACEMENT EQUIPMENT.

N2 PROVIDE NEW DISCONNECT SWITCH (FUSED AS NOTED)

N3 PROVIDE NEW BRANCH CIRCUIT CONDUCTORS IN EXISITNG CONDUIT. CONNECT TO NEW BRANCH CIRCUIT BREAKER IN (E) PANEL.

PROPOSED (N) ROOFTOP MECHANICAL EQUIPMENT ON PANEL 'GL' HAS A REDUCED LOAD IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'GL' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.

PROPOSED (N) ROOFTOP MECHANICAL EQUIPMENT ON PANEL 'GP' HAS A MARGINAL INCREASE IN LOAD (5.4A AT 208V, 1PH) IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'GP' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.



NORTH

BUILDING G ELECTRICAL ROOF PLAN

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

ROOF PLAN NOTES

A. PROVIDE SEALTITE POWER & CONTROL CONNECTIONS TO ALL MECHANICAL UNITS.

B. ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.

C. VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

D. PROVIDE INDEPENDENT SUPPORT OF ELECTRICAL DISCONNECT SWITCH(ES) UNLESS THE MECHANICAL UNIT IS DESIGNED FOR MOUNTING THE DISCONNECT SWITCH TO THE UNIT.

E. NEW CONDUIT (WHERE (E) PATHWAYS ARE FOUND TO BE INADEQUATE) SHALL BE ROUTED IN ACCESSIBLE CEILING SPACE BELOW ROOF DECK.

F. NO ROOF MOUNT CONDUIT IS ALLOWED UNLESS OTHERWISE NOTED, OR WITH PRIOR APPROVAL OF THE ARCHITECT AND DISTRICT REPRESENTATIVE.

G. FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING.

H. ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS WITH APPROVED MATERIALS.

I. NOTE: REQUIRED ROOF LEVEL 120V WP/GFI RECEPTACLES ARE EXISTING AND ARE NOT SHOWN ON THIS PLAN. RECEPTACLES MAY BE MOUNTED ON HVAC EQUIPMENT TO BE REMOVED/REPLACED. IN THAT CASE, PROVIDE A NEW RECEPTACLE, BOX AND W.P. COVER TO REPLACE THE RECEPTACLE. REUSE THE (E) BRANCH CIRCUIT. MOUNT REPLACEMENT RECEPTACLE ON PEDESTAL OR ON NEW HVAC UNIT WHERE ALLOWED.

DSA File No.:
15-95

DSA Application No.:
03-122615

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APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

1. DISCONNECT AND REMOVE (E) ROOF MOUNTED MECHANICAL UNIT.
2. (N) ROOF MOUNTED MECHANICAL EQUIPMENT TO REPLACE (E) MECHANICAL EQUIPMENT SLATED FOR DEMOLITION PER MECHANICAL PLANS. PROVIDE (N) ELECTRICAL CONNECTIONS BETWEEN (E) SUB-PANEL(S) IN BUILDING BELOW AND (N) EQUIPMENT AS SHOWN. REUTILIZE (E) CONDUIT PATHWAY (VERIFY 3/4" MINIMUM) WHERE POSSIBLE TO SOURCE PANELS, AND EXTEND CONDUIT AS NECESSARY TO (N) UNIT DISCONNECT.
3. (E) ELECTRICAL SUB-PANEL BELOW INSIDE (E) BUILDING TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) BRANCH CIRCUIT BREAKER AND CONNECTION FOR (N) MECHANICAL UNIT, PER "NEW WORK (REPLACEMENT EQUIPMENT)" TABLE ON THIS SHEET. (N) BREAKER TO MATCH AIC RATING OF (E) BREAKERS IN (E) SUB-PANEL AND SHALL BE HACR RATED.
4. CONCERNING HVAC EQUIPMENT SERVICE RECEPTACLES, REFER TO ROOF PLAN NOTES ITEM #I ON THIS SHEET. AN HVAC SERVICE EQUIPMENT RECEPTACLE OUTLET IS REQUIRED WITHIN 25' OF EQUIPMENT, PER CEC 210.63 & CMC 303.8.5(2).

General Notes

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EXPIRES: 06/30/26

Consultant THOMA #22-8087

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BUILDING G ELECTRICAL ROOF PLAN

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LICENSED ARCHITECT MICHAEL K. FERRARO No. C23724 Exp. 4-30-23 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: PM

Drawn By: KH

Checked By: JT

Reviewed By: JT

Scale: AS NOTED

Project Number: 2228

Date: 03/22/2023

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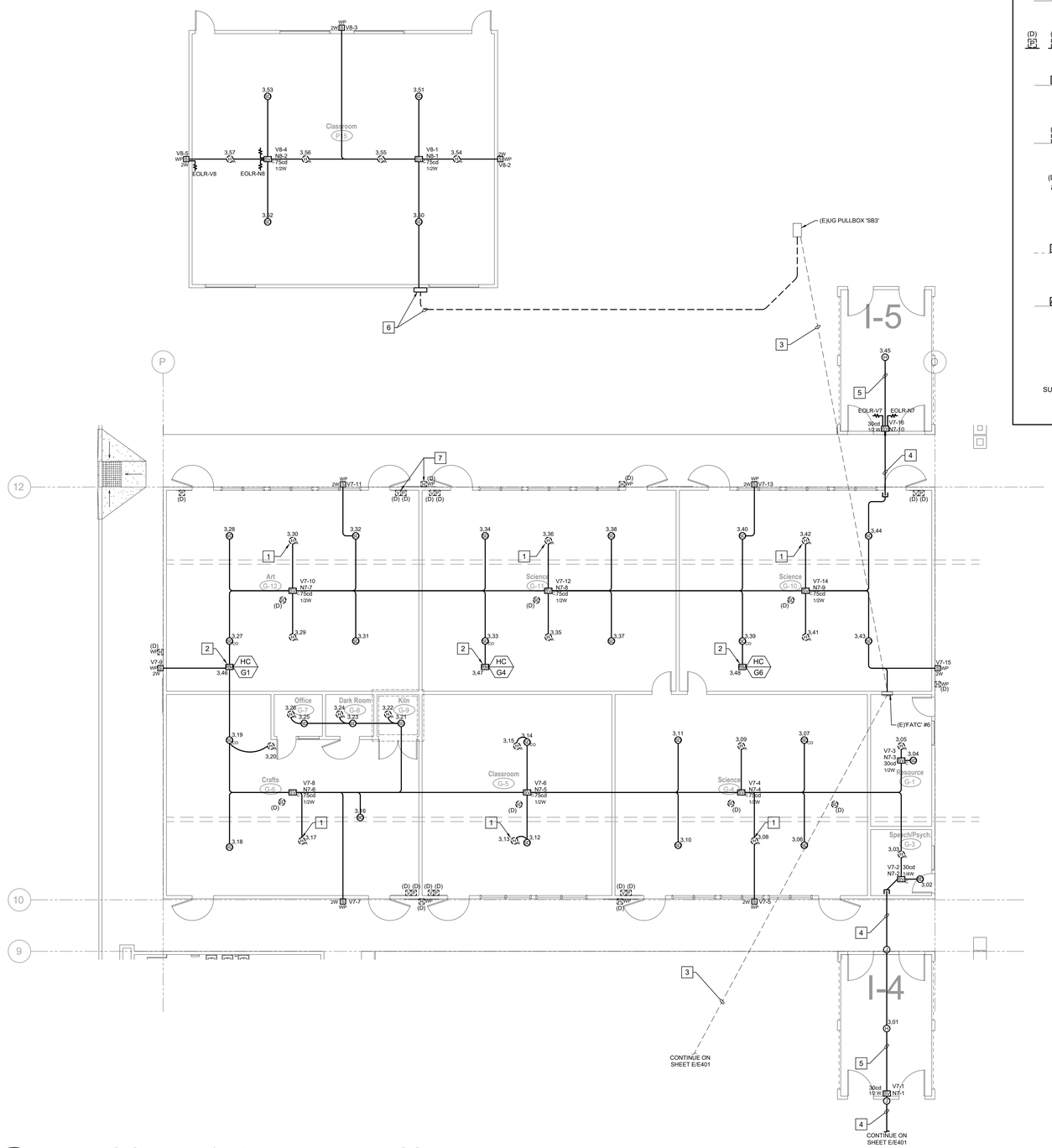
G/E301



BUILDING G, I-4, I-5 & P15 FIRE ALARM FLOOR PLAN

NORTH

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

FIRE ALARM DEVICE SYMBOLS

"SEE SHEET X/E401" FOR FURTHER INFORMATION

Symbol	Description
WP H (D)	FIRE ALARM, Exterior Horn (EH). PAINTING. Paint exterior cement plaster wall, joint to joint. Paint wall after the (E) FA device is removed and before the new device is installed. Provide a mock-up on the method of installing the new device and sealing the wall from water intrusion.
(D) P, (D) V, (D) H	ELECTRICAL, New stainless steel cover plate at (E) FA Pull Station or (E) Strobe device that is to be removed from service. Provide oversized plate when required to cover paint cut lines.
H	FIRE ALARM, Interior Horn (IH). PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. When Vinyl Covered Tackboard (TB) occurs, remove and replace a whole sheet of tackboard, and repair the rubber floor base.
(D) V	FIRE ALARM, (E) Visual Device. Remove and replace. See Electrical. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. (AV) Horn/Strobe at similar conditions.
(D) SD	FIRE ALARM, (E) Smoke Detector mounted to bottom of acoustical ceiling system. Remove and Replace. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV	FIRE ALARM, New Visual Speaker Device with a Cut-In Electrical Box. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. Paint raceway to match wall color and sheen.
ANN	FIRE ALARM, Annunciator. CUT & PATCH. Cut & Patch (E) wall finish to accommodate a New FA Device. Remove and replace an entire tackboard panel. Match (E) Vinyl Panel, Typ.
SV C	FIRE ALARM, Visual Horn device mounted to bottom of acoustical ceiling system. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV SUR	FIRE ALARM, Visual Horn device mounted to bottom of exposed structure and new exposed to view pathway and pull boxes. PAINTING, Paint the new electrical pathway and match the existing surface color and sheen. Refer to the Ceiling Plan for ceiling conditions.

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023
Agency Approval

SHEET REFERENCE NOTES

1. MOUNT DETECTOR WITHIN 3FT OF THE PEAK OF THE ROOF.
2. PROVIDE FIRE ALARM RELAY MODULE AT HVAC UNIT TO SHUT DOWN UNIT UPON ACTIVATION OF THE FIRE ALARM SYSTEM. SEE DETAIL 3-X/E403. FIELD VERIFY EXACT LOCATION.
3. EXISTING UNDERGROUND FIRE ALARM CONDUITS. SEE FIRE ALARM SITE PLAN SHEET SD/E102.
4. PROVIDE (1)1" FIRE ALARM CONDUIT MOUNTED UNDER COVERED WALKWAY, STUB INTO BUILD ABOVE ACCESSIBLE CEILING SPACE. PAINT TO MATCH.
5. INTERIOR SURFACE MOUNTED RACEWAY SHALL BE WIREMOLD OR APPROVED EQUAL AND SHALL BE SECURELY MOUNTED TO STRUCTURE WITH MANUFACTURES RECOMMENDED FASTENERS.
6. NEW UNDERGROUND FIRE ALARM CONDUIT AND SIGNAL CABINET. SEE BUILDING 15 AND SHADE STRUCTURE ENLARGED ELECTRICAL SITE PLAN SHEET SD/E201.
7. EXISTING FIRE ALARM DEVICE TO BE REMOVED (TYP.).

GENERAL FIRE ALARM PLAN NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, AND CONDUCTORS SHALL BE REMOVED. EXISTING RACEWAYS AND SUPPORTS CAN REMAIN AND BE REUSED FOR INSTALLATION OF NEW FIRE ALARM SYSTEM. STAINLESS STEEL BLANK COVERS SHALL BE INSTALLED ON ALL BOXES NOT USED DURING INSTALLATION OF NEW FIRE ALARM SYSTEM. OVERSIZED BLANK STAINLESS STEEL COVER PLATES SHALL BE USED TO COMPLETELY CONCEAL EXISTING OUTLET BOXES.
2. ALL NEW FIRE ALARM CABLING TO BE INSTALLED IN NEW RACEWAYS AND NEW J-HOOKS, MINIMUM CONDUIT SIZE IS 3/4" WITH CONDUIT FILL NOT TO EXCEED 40%. EXISTING RACEWAYS AND J-HOOKS MAY BE REUSED WHERE AVAILABLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ACCESSIBLE CEILING SPACES AND INACCESSIBLE CEILING SPACES. NEW RACEWAY SHALL BE CONCEALED WERE POSSIBLE.
3. FIRE WATCH - DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.
4. MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN SMOKE DETECTORS AND AIR SUPPLIES. SMOKE DETECTOR INSTALLATION SHALL BE AS CLOSE TO PLAN AS POSSIBLE WITH MEETING THE 3'-0" RULE.
5. CO DETECTOR LOCATIONS - BASED ON AS-BUILT DRAWING AND LIMITED FIELD INVESTIGATION, CO DETECTORS HAVE BEEN PROVIDED AND LOCATED NEAREST TO THE FIRST SUPPLY REGISTER COMING FROM THE HVAC UNIT INTO THE CLASSROOM.
6. ATTIC ACCESS DOORS - WHERE EQUIPMENT IS INSTALLED IN AREAS ABOVE INACCESSIBLE CEILING SPACES, CONTRACTOR TO PROVIDE AND INSTALL REQUIRED ACCESS DOORS FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT. CONTRACTOR TO FIELD VERIFY LOCATIONS WHERE ACCESS DOORS WILL BE REQUIRED, REFER TO ARCHITECTURAL PLANS FOR ACCESS DOOR INFORMATION.
7. CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING AND WALL FINISHES IN KIND AS REQUIRED FOR INSTALLATION OF NEW WORK, FIELD COORDINATE AND VERIFY EXISTING CEILINGS AND WALL FINISHES WITH ARCHITECTURAL PLANS.

General Notes

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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. TAYLOR No. 0[illegible] ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26
Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313
Project

BUILDING G, I-4, I-5 & P15 FIRE ALARM FLOOR PLAN
Drawing

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LICENSED ARCHITECT RICHARD K. FENECO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	G/E401
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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PBVUSD WARREN JR. HIGH MODERNIZATION 11/2/2022

ELECTRICAL DETAIL FOR HVAC UPGRADES TE# 22-8087

BLDG #	EXISTING - DEMOLITION								
ROOM NO.	HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [EST FLA]	CIRC. BRKR. (A/#P)	WIRE (AWG, CU)	DIS. SW.	NOTES
"H"									
Rm. H1	AC-10	HL-26/28/30	480	3	25.0	45/3	#8	TBR	D1
Rm. H9	AC-5	HL-8/10/12	480	3	13.0	25/3	#10	TBR	D1
Rm. H14	AC-2	HS-15/17	208	1	17.3	30/2	#10	TBR	D1
Rm. H16	AC-8.5	HL-14/16/18	480	3	21.0	40/3	#8	TBR	D1
Rm. H16	AC-4	HL - 31/33/35	480	3	11.0	20/3	#12	TBR	D1
Rm. H1	AC- 10	HL-20/22/24	480	3	25.0	45/3	#8	TBR	D1
Rm. H1	AC- 10	HL - 32/34/36	480	3	25.0	45/3	#8	TBR	D1
Rm.H18	AC- 4	HL - 37/39/41	480	3	11.0	20/3	#12	TBR	D1

	NEW WORK (REPLACEMENT EQUIPMENT)									
HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [HP]	CIRC. BRKR. (A/#P) [MOCP]	WIRE (AWG, CU) [MCA]	DIS. SW.	CHANGE IN LOAD (AMPS)	DUCT DETECTOR REQD.	NOTES
HC-H1	HL-26/28/30	480	3	22.6	30/3 [30A]	#10 [25]	30AS/30AF, 3P	-2.4	NO**	N1, N2, N3
HC-H2	HL-8/10/12	480	3	12	20/3 [20A]	#12 [14]	20AS/30AF, 3P	-1.0	NO*	N1, N2, N3
HC-H3	HS-15/17	208	1	16.5	30/2 [30A]	#10 [19.4]	30AS/30AF, 2P	-0.8	NO*	N1, N2, N4
HC-H4	HL-14/16/18	480	3	17.5	25/3 [25A]	#12 [20]	30AS/25AF, 3P	-3.5	NO**	N1, N2, N3
HC-H5	HL - 31/33/35	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N4
HC-H6	HL-20/22/24	480	3	22.6	30/3 [30A]	#10 [25]	30AS/30AF, 3P	-2.4	NO**	N1, N2, N3
HC-H7	HL - 32/34/36	480	3	22.6	30/3 [30A]	#10 [25]	30AS/30AF, 3P	-2.4	NO**	N1, N2, N3
HC-H8	HL - 37/39/41	480	3	10.3	15/3 [15A]	#12 [12]	30AS/15AF, 3P	-0.7	NO*	N1, N2, N4

DEMOLITION NOTES

D1 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO THE (E) HVAC UNIT.

TBR	=	TO BE REMOVED
SPST	=	SINGLE POLE - SINGLE THROW
NF	=	NON-FUSED

NEW WORK NOTES

N1 PROVIDE NEW ELECTRICAL CONNECTION TO REPLACEMENT EQUIPMENT.

N2 PROVIDE NEW DISCONNECT SWITCH (FUSED AS NOTED)

N3 PROVIDE NEW BRANCH CIRCUIT CONDUCTORS IN EXISITNG CONDUIT. CONNECT TO NEW BRANCH CIRCUIT BREAKER IN (E) PANEL.

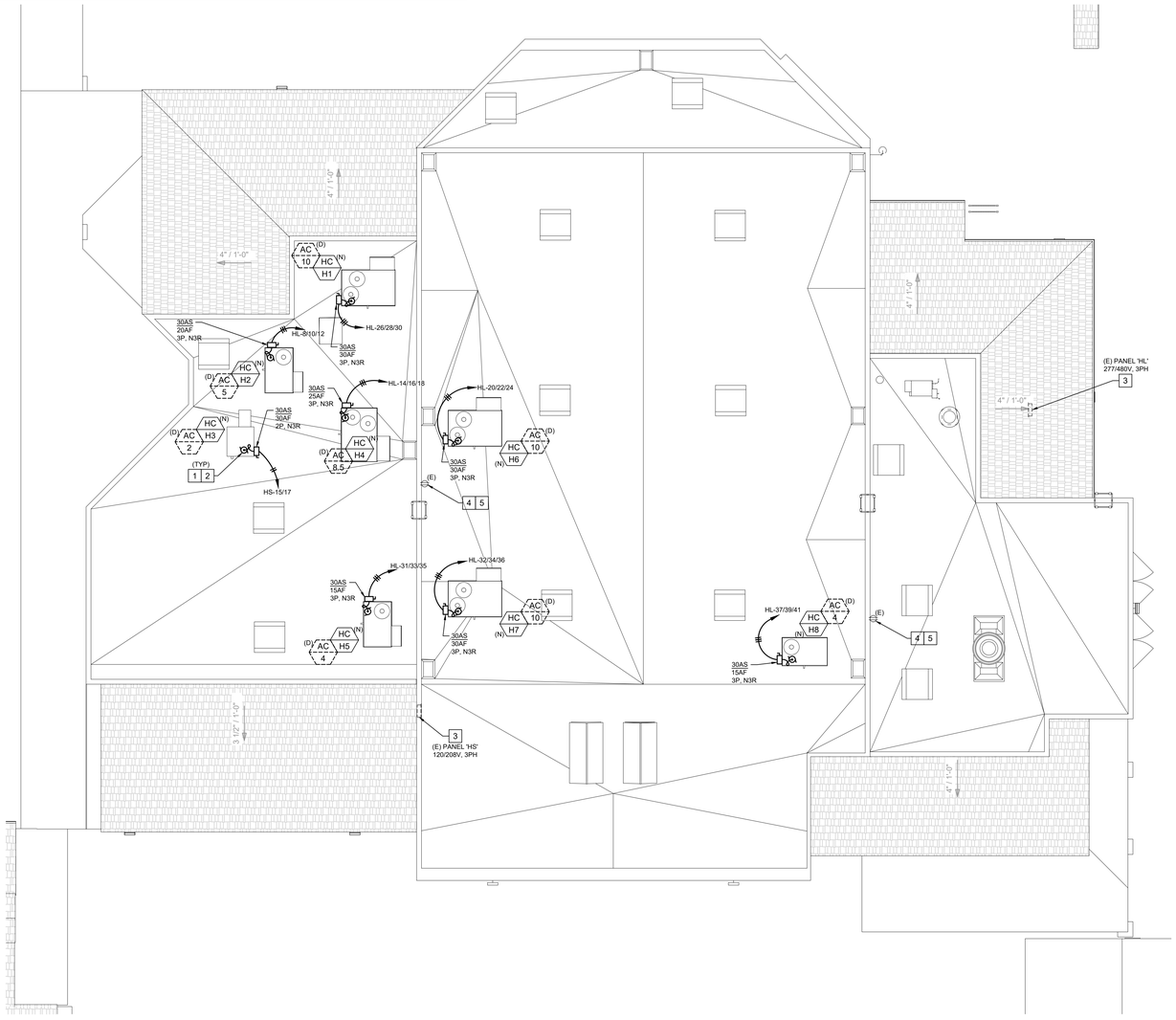
N4 PROVIDE NEW BRANCH CIRCUIT CONDUCTORS IN EXISITNG CONDUIT. CONNECT TO EXISTING BRANCH CIRCUIT BREAKER IN (E) PANEL.

* UNIT SUPPLY ≤2000CFM

** CMC 608.1, EXCEPTION #1

PROPOSED (N) ROOFTOP MECHANICAL EQUIPMENT ON PANEL 'HL' HAS A REDUCED LOAD IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'HL' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.

PROPOSED (N) ROOFTOP MECHANICAL EQUIPMENT ON PANEL 'HS' HAS A REDUCED LOAD IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'HS' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.



NORTH

BUILDING H ELECTRICAL ROOF PLAN

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

ROOF PLAN NOTES

A. PROVIDE SEALTITE POWER & CONTROL CONNECTIONS TO ALL MECHANICAL UNITS.

B. ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.

C. VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

D. PROVIDE INDEPENDENT SUPPORT OF ELECTRICAL DISCONNECT SWITCH(ES) UNLESS THE MECHANICAL UNIT IS DESIGNED FOR MOUNTING THE DISCONNECT SWITCH TO THE UNIT.

E. NEW CONDUIT (WHERE (E) PATHWAYS ARE FOUND TO BE INADEQUATE) SHALL BE ROUTED IN ACCESSIBLE CEILING SPACE BELOW ROOF DECK.

F. NO ROOF MOUNT CONDUIT IS ALLOWED UNLESS OTHERWISE NOTED, OR WITH PRIOR APPROVAL OF THE ARCHITECT AND DISTRICT REPRESENTATIVE.

G. FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING.

H. ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS WITH APPROVED MATERIALS.

I. NOTE: REQUIRED ROOF LEVEL 120V WP/GFI RECEPTACLES ARE EXISTING TO REMAIN. RECEPTACLES MAY BE MOUNTED ON HVAC EQUIPMENT TO BE REMOVED/REPLACED. IN THAT CASE, PROVIDE A NEW RECEPTACLE, BOX AND W.P. COVER TO REPLACE THE RECEPTACLE. REUSE THE (E) BRANCH CIRCUIT. MOUNT REPLACEMENT RECEPTACLE ON PEDESTAL OR ON NEW HVAC UNIT WHERE ALLOWED.

DSA File No.:
15-95

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03-122615

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APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

1. DISCONNECT AND REMOVE (E) ROOF MOUNTED MECHANICAL UNIT.
2. (N) ROOF MOUNTED MECHANICAL EQUIPMENT TO REPLACE (E) MECHANICAL EQUIPMENT SLATED FOR DEMOLITION PER MECHANICAL PLANS. PROVIDE (N) ELECTRICAL CONNECTIONS BETWEEN (E) SUB-PANEL(S) IN BUILDING BELOW AND (N) EQUIPMENT AS SHOWN. REUTILIZE (E) CONDUIT PATHWAY (VERIFY 3/4" MINIMUM) WHERE POSSIBLE TO SOURCE PANELS, AND EXTEND CONDUIT AS NECESSARY TO (N) UNIT DISCONNECT.
3. (E) ELECTRICAL SUB-PANEL BELOW INSIDE (E) BUILDING TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) BRANCH CIRCUIT BREAKER AND CONNECTION FOR (N) MECHANICAL UNIT, PER "NEW WORK (REPLACEMENT EQUIPMENT)" TABLE ON THIS SHEET. (N) BREAKER TO MATCH AIC RATING OF (E) BREAKERS IN (E) SUB-PANEL AND SHALL BE HACR RATED.
4. APPROXIMATE LOCATION (E) GFCI. WEATHERPROOF WHILE IN-USE, HVAC SERVICE EQUIPMENT RECEPTACLE TO REMAIN. FIELD VERIFY.
5. HVAC SERVICE EQUIPMENT RECEPTACLE OUTLET REQUIRED WITHIN 25' OF EQUIPMENT, PER CEC 210.63 & CMC 303.8.5(2).

General Notes

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REGISTERED PROFESSIONAL ENGINEER WILLIAM A. THOMA ELECTRICAL STATE OF CALIFORNIA
EXPIRES: 06/30/26

Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING H ELECTRICAL ROOF PLAN

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LICENSED ARCHITECT RICHARD K. FERGUSON No. C29724 Exp. 4-30-24 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

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Scale: AS NOTED	Drawn By: KH	H/E301
Project Number: 2228	Checked By: JT	
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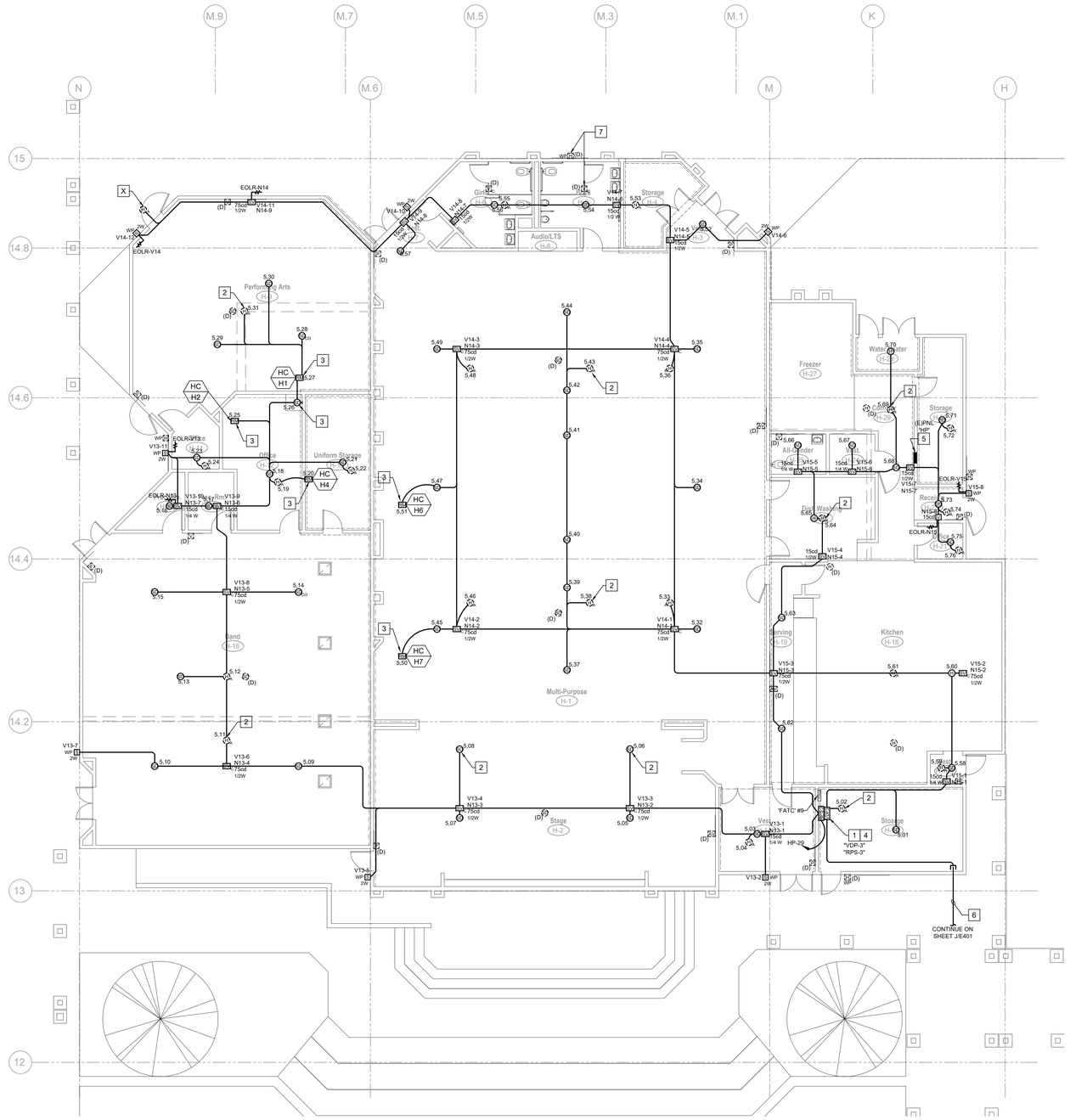

BUILDING H FIRE ALARM FLOOR PLAN

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

NORTH

FIRE ALARM DEVICE SYMBOLS

"SEE SHEET X/E401" FOR FURTHER INFORMATION

WP (H) (D)	FIRE ALARM, Exterior Horn (EH). PAINTING. Paint exterior cement plaster wall, joint to joint. Paint wall after the (E) FA device is removed and before the new device is installed. Provide a mock-up on the method of installing the new device and sealing the wall from water intrusion.
(D) (F) (D) (V) (D) (H)	ELECTRICAL, New stainless steel cover plate at (E) FA Pull Station or (E) Strobe device that is to be removed from service. Provide oversized plate when required to cover paint cut lines.
(H)	FIRE ALARM, Interior Horn (IH). PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. When Vinyl Covered Tackboard (TB) occurs, remove and replace a whole sheet of tackboard, and repair the rubber floor base.
(D) (V)	FIRE ALARM, (E) Visual Device. Remove and replace. See Electrical. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. (AV) Horn/Strobe at similar conditions.
(D) (S)	FIRE ALARM, (E) Smoke Detector mounted to bottom of acoustical ceiling system. Remove and Replace. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
(SV)	FIRE ALARM, New Visual Speaker Device with a Cut-In Electrical Box. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. Paint raceway to match wall color and sheen.
(ANN)	FIRE ALARM, Annunciator. CUT & PATCH. Cut & Patch (E) wall finish to accommodate a New FA Device. Remove and replace an entire tackboard panel. Match (E) Vinyl Panel, Typ.
(SV) C	FIRE ALARM, Visual Horn device mounted to bottom of acoustical ceiling system. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
(SV) SUR	FIRE ALARM, Visual Horn device mounted to bottom of exposed structure and new exposed to view pathway and pull boxes. PAINTING, Paint the new electrical pathway and match the existing surface color and sheen. Refer to the Ceiling Plan for ceiling conditions.

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SHEET REFERENCE NOTES

1. FIRE ALARM VOICE DISTRIBUTION PANEL 'VDP-3' AND REMOTE POWER SUPPLY 'RPS-3'. SEE FIRE ALARM RISER DIAGRAM SHEET X/E402.
2. MOUNT DETECTOR WITHIN 3FT OF THE PEAK OF THE ROOF.
3. PROVIDE FIRE ALARM RELAY MODULE AT EXISTING AIR HANDLER UNIT TO SHUT DOWN UNIT UPON ACTIVATION OF THE FIRE ALARM SYSTEM. SEE DETAIL 3-X/E403.
4. PROVIDE (N) 120V POWER CONNECTION ((1) 3/4"C - (2) #12 AND (1) #12 GND), TO POWER (N) FIRE ALARM EQUIPMENT--CONNECT TO (E) SPARE CIRCUIT BREAKER IN (E) PANEL HPP' OR PROVIDE (N) 20A/1P BREAKER. CONTRACTOR SHALL ENSURE CIRCUIT BREAKER HAS RED, LOCKING HANDLE.
5. (E) ELECTRICAL PANEL TO REMAIN. REFER TO OTHER REFERENCE NOTES ON THIS SHEET FOR (N) 120V POWER CONNECTIONS TO (N) FIRE ALARM EQUIPMENT.
6. PROVIDE (1)1" FIRE ALARM CONDUIT MOUNTED UNDER COVERED WALKWAY, STUB INTO BUILD ABOVE ACCESSIBLE CEILING SPACE. PAINT TO MATCH.
7. EXISTING FIRE ALARM DEVICE TO BE REMOVED (TYP.).

GENERAL FIRE ALARM PLAN NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, AND CONDUCTORS SHALL BE REMOVED. EXSITING RACEWAYS AND SUPPORTS CAN REMAIN AND BE REUSED FOR INSTALLATION OF NEW FIRE ALARM SYSTEM. STAINLESS STEEL BLANK COVERS SHALL BE INSTALLED ON ALL BOXES NOT USED DURING INSTALLATION OF NEW FIRE ALARM SYSTEM. OVERSIZED BLANK STAINLESS STEEL COVER PLATES SHALL BE USED TO COMPLETELY CONCEAL EXISTING OUTLET BOXES.
2. ALL NEW FIRE ALARM CABLING TO BE INSTALLED IN NEW RACEWAYS AND NEW J-HOOKS, MINIMUM CONDUIT SIZE IS 3/4" WITH CONDUIT FILL NOT TO EXCEED 40%. EXISTING RACEWAYS AND J-HOOKS MAY BE REUSED WHERE AVAILABLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ACCESSIBLE CEILING SPACES AND INACCESSIBLE CEILING SPACES. NEW RACEWAY SHALL BE CONCEALED WERE POSSIBLE.
3. FIRE WATCH - DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.
4. MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN SMOKE DETECTORS AND AIR SUPPLIES. SMOKE DETECTOR INSTALLATION SHALL BE AS CLOSE TO PLAN AS POSSIBLE WITH MEETING THE 3'-0" RULE.
5. CO DETECTOR LOCATIONS - BASED ON AS-BUILT DRAWING AND LIMITED FIELD INVESTIGATION, CO DETECTORS HAVE BEEN PROVIDED AND LOCATED NEAREST TO THE FIRST SUPPLY REGISTER COMING FROM THE HVAC UNIT INTO THE CLASSROOM.
6. ATTIC ACCESS DOORS - WHERE EQUIPMENT IS INSTALLED IN AREAS ABOVE INACCESSIBLE CEILING SPACES, CONTRACTOR TO PROVIDE AND INSTALL REQUIRED ACCESS DOORS FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT, CONTRACTOR TO FIELD VERIFY LOCATIONS WHERE ACCESS DOORS WILL BE REQUIRED, REFER TO ARCHITECTURAL PLANS FOR ACCESS DOOR INFORMATION.
7. CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING AND WALL FINISHES IN KIND AS REQUIRED FOR INSTALLATION OF NEW WORK, FIELD COORDINATE AND VERIFY EXISTING CEILINGS AND WALL FINISHES WITH ARCHITECTURAL PLANS.

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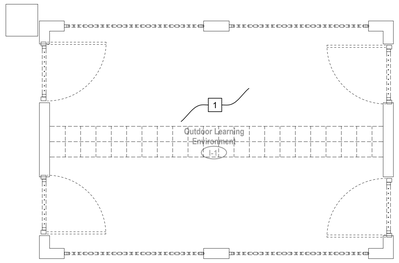
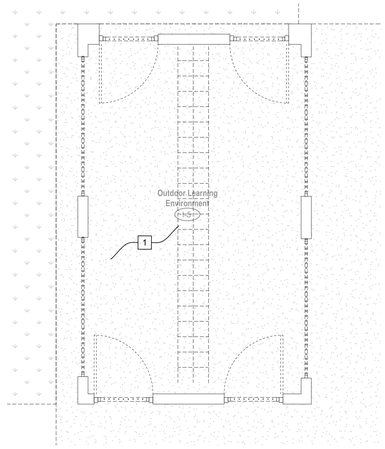


BUILDING I-1 DEMO POWER AND SIGNAL FLOOR PLAN

NORTH

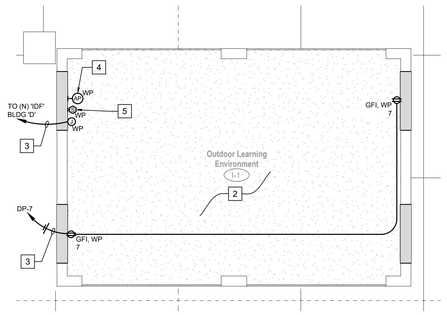
SCALE: 1/4" = 1'-0"



BUILDING I-5 DEMO POWER AND SIGNAL FLOOR PLAN

NORTH

SCALE: 1/4" = 1' 0"

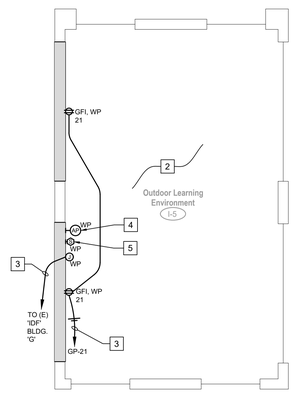


BUILDING I-1 NEW POWER & SIGNAL FLOOR PLAN

NORTH

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

PROPOSED (N) RECEPTACLE LOADS (360VA) ON PANEL 'DP' HAVE BEEN INVESTIGATED AND PANEL 'DP' IS FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AS SHOWN ON THESE PLANS.



BUILDING I-5 NEW POWER & SIGNAL FLOOR PLAN

NORTH

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

PROPOSED (N) RECEPTACLE LOADS (360VA) ON PANEL 'GP' HAVE BEEN INVESTIGATED AND PANEL 'GP' IS FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AS SHOWN ON THESE PLANS.

GENERAL COMMUNICATION PLAN NOTES

A. DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.

B. ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

C. EXTERIOR AP OUTLETS SHALL BE MOUNTED AT A MINIMUM +10' ABOVE FINISHED GRADE UNLESS NOTED OTHERWISE OR DIRECTED OTHERWISE BY DISTRICT IT STAFF.

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SHEET REFERENCE NOTES

1. PER AVAILABLE RECORD DRAWINGS, BUILDING DOES NOT CONTAIN ANY (E) 120V WIRING DEVICES/EQUIPMENT, NOR ANY (E) SIGNAL/COMMUNICATIONS DEVICES. THEREFORE, NO POWER/SIGNAL DEMOLITION SCOPE OF WORK IS SHOWN (REFER TO SHEET I/E201 FOR LIGHTING DEMOLITION SCOPE OF WORK). FIELD VERIFY (E) CONDITIONS AND NOTIFY ENGINEER OF RECORD SHOULD RECORD DRAWING CONDITIONS NOT MATCH ACTUAL FIELD CONDITIONS.
2. RECEPTACLES IN THIS ROOM SHALL BE TAMPER RESISTANT TYPE.
3. REFER TO SHEET SD/E101 FOR (N) CONDUIT PATHWAY TO BE PROVIDED BETWEEN (E) BUILDING SOURCE PANELS/IDF CABINETS AND RENOVATED 'I' BUILDING.
4. (N) OUTDOOR WIRELESS ACCESS POINT MOUNTED TO (N) BUILDING FINISHED SURFACE; HARDWARE TO BE PROVIDED BY DISTRICT STAFF AND INSTALLED BY CONTRACTOR. EC SHALL PROVIDE (N) 5" SQUARE, FLUSH-MOUNTED, WEATHERPROOF JUNCTION BOX WITH 2-PORT BISCUIT WITH DATA OUTLETS TERMINATED AND READY FOR CONNECTION. REFER TO DETAIL 5/X/E302 FOR MOUNTING REQUIREMENTS.
5. INSTALL (N) SURFACE MOUNTED WEATHERPROOF INTERCOM SPEAKER . VERIFY MOUNTING HEIGHT WITH DISTRICT; DISTRICT TO PROVIDE DEVICE, CONTRACTOR TO INSTALL. PROVIDE (1) CAT6 OSP CABLE (BLUE) WITH FEMALE TERMINATION FOR POE CAPABLE DEVICE, HOMERUN TO IDF IN NEIGHBORING BUILDING.

General Notes

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Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING I ELECTRICAL FLOOR PLANS

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LICENSED ARCHITECT RICHARD K. FUNAI No. C23724 Exp. 4-30-24 STATE OF CALIFORNIA
Architect

No.	Revision/Submission	Date

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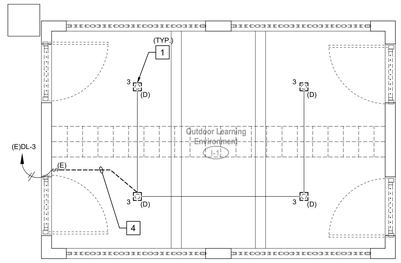
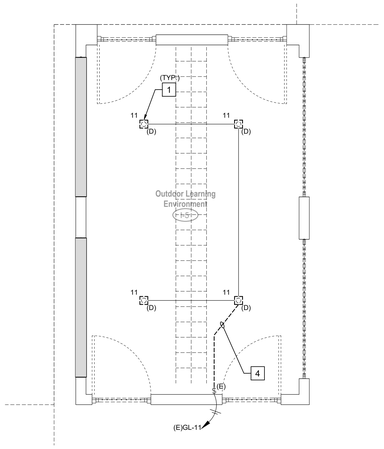


BUILDING I-1 DEMO LIGHTING FLOOR PLAN

NORTH

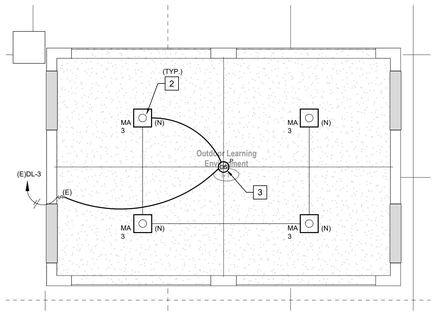
SCALE: 1/4" = 1'-0"



BUILDING I-5 DEMO LIGHTING FLOOR PLAN

NORTH

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



BUILDING I-1 NEW LIGHTING FLOOR PLAN

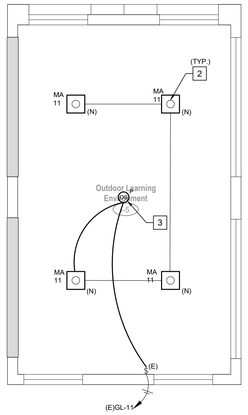
NORTH

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

PROPOSED (N) LIGHTING ON PANEL 'DL' HAS A REDUCED LOAD IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'DL' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.

SEE SHEET X/E203 FOR (N) LUMINAIRE SCHEDULE & CONTROLS.

PANEL 'DL' LIGHTING LOAD CHANGE		
Cir. # 3		Load (v)
(E) Load		248
(N) Load		120
Delta		128



BUILDING I-5 NEW LIGHTING FLOOR PLAN

NORTH

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

PROPOSED (N) LIGHTING ON PANEL 'GL' HAS A REDUCED LOAD IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'GL' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.

SEE SHEET X/E203 FOR (N) LUMINAIRE SCHEDULE & CONTROLS.

PANEL 'GL' LIGHTING LOAD CHANGE		
Cir. # 11		Load (v)
(E) Load		1012
(N) Load		120
Delta		892

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☐ SHEET REFERENCE NOTES

1. DEMO (E) LIGHT FIXTURE. (E) CIRCUIT AND (E) CONDUIT PATHWAY TO REMAIN FOR REUSE.
2. (N) LIGHT FIXTURE TO BE CONNECTED TO (E) LIGHTING CIRCUIT (REFER TO SHEET SD/E101 FOR (E) SOURCE PANEL LOCATION). MOUNT FIXTURE OVER DEMOLISHED FIXTURE BACKBOX.
3. (N) CEILING MOUNTED OCCUPANCY SENSOR WITH PHOTOCELL (LINE VOLTAGE--ACUITY CMR-9-PC, OR APPROVED EQUAL) TO CONTROL AUTO-OFF OF BUILDING LIGHTING. DELAYED TIME OFF SET TO 15 MINUTES. INTERCEPT AND RE-ROUTE (E) 277V LIGHTING CIRCUIT AS NECESSARY TO WIRE THROUGH LINE VOLTAGE SENSOR AS SHOWN.
4. DEMOLISH (E) CONDUIT PATHWAY BETWEEN (E) WALL SWITCH AND (E) LIGHTING FIXTURES. REFER TO NEW FLOOR PLAN ON THIS SHEET FOR RE-ROUTING.

General Notes

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LICENSED ARCHITECT RICHARD K. FERGUSON No. C29724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

Designed By: PM

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Scale: AS NOTED
Drawn By: KH
Project Number: 2228
Checked By: JT
Date: 03/22/2023
Reviewed By: JT

I/E201

PBVUSD WARREN JR. HIGH MODERNIZATION 11/2/2022

ELECTRICAL DETAIL FOR HVAC UPGRADES TE# 22-8087

BLDG #	EXISTING - DEMOLITION									NEW WORK (REPLACEMENT EQUIPMENT)										
ROOM NO.	HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [EST FLA]	CIRC. BRKR. (A/#P)	WIRE (AWG, CU)	DIS. SW.	NOTES	HVAC EQUIP. TAG	(E)PANEL CIRCUIT NO.	VOLTAGE	PHASE	FLA [HP]	CIRC. BRKR. (A/#P) [MOCP]	WIRE (AWG, CU) [MCA]	DIS. SW.	CHANGE IN LOAD (AMPS)	DUCT DETECTOR REQD.	NOTES
"J"																				
Rm.J3	AC-6	JL-11 /13/15	480	3	13.0	25/3	#10	TBR	D1	HC-J1	JL-11 /13/15	480	3	13.1	20/3 [20A]	#12 [15]	30AS/20AF, 3P	0.1	NO**	N1, N2, N3
Rm.J3	AC -1.5	JS-15/17	208	1	13.8	20/2	#12	TBR	D1	HC-J2	JS-15/17	208	1	16.5	30/2 [30A]	#10 [19.4]	30AS/30AF, 2P	2.7	NO*	N1, N2, N3
Rm.J8	AC-6	JL - 5/7/9	480	3	13.0	25/3	#10	TBR	D1	HC-J3	JL - 5/7/9	480	3	13.1	20/3 [20A]	#12 [15]	30AS/20AF, 3P	0.1	NO**	N1, N2, N3

DEMOLITION NOTES

D1 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO THE (E) HVAC UNIT.

TBR = TO BE REMOVED

SPST = SINGLE POLE - SINGLE THROW

NF = NON-FUSED

NEW WORK NOTES

N1 PROVIDE NEW ELECTRICAL CONNECTION TO REPLACEMENT EQUIPMENT.

N2 PROVIDE NEW DISCONNECT SWITCH (FUSED AS NOTED)

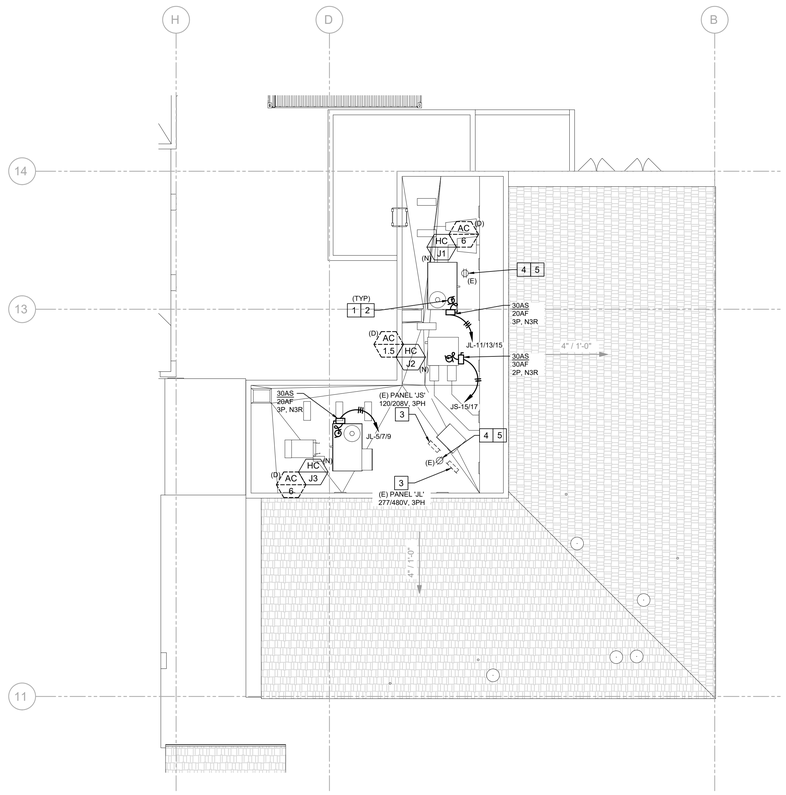
N3 PROVIDE NEW BRANCH CIRCUIT CONDUCTORS IN EXISITNG CONDUIT. CONNECT TO NEW BRANCH CIRCUIT BREAKER IN (E) PANEL.

* UNIT SUPPLY ≤2000CFM

** CMC 608.1, EXCEPTION #1

PROPOSED (N) ROOFTOP MECHANICAL EQUIPMENT ON PANEL 'JL' HAS A MARGINAL INCREASE IN LOAD (0.2A AT 480V, 3PH) IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'JL' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.

PROPOSED (N) ROOFTOP MECHANICAL EQUIPMENT ON PANEL 'JS' HAS A MARGINAL INCREASE IN LOAD (2.7A AT 208V, 1PH) IN COMPARISON TO (E) EQUIPMENT SLATED FOR DEMOLITION. PANEL 'JS' HAS BEEN INVESTIGATED AND FOUND TO HAVE ADEQUATE CAPACITY FOR THE PROPOSED LOAD ADDITIONS AND REMOVALS AS SHOWN ON THESE PLANS.



BUILDING J ELECTRICAL ROOF PLAN

NORTH

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

ROOF PLAN NOTES

A. PROVIDE SEALTITE POWER & CONTROL CONNECTIONS TO ALL MECHANICAL UNITS.

B. ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.

C. VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

D. PROVIDE INDEPENDENT SUPPORT OF ELECTRICAL DISCONNECT SWITCH(ES) UNLESS THE MECHANICAL UNIT IS DESIGNED FOR MOUNTING THE DISCONNECT SWITCH TO THE UNIT.

E. NEW CONDUIT (WHERE (E) PATHWAYS ARE FOUND TO BE INADEQUATE) SHALL BE ROUTED IN ACCESSIBLE CEILING SPACE BELOW ROOF DECK.

F. NO ROOF MOUNT CONDUIT IS ALLOWED UNLESS OTHERWISE NOTED, OR WITH PRIOR APPROVAL OF THE ARCHITECT AND DISTRICT REPRESENTATIVE.

G. FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING.

H. ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS WITH APPROVED MATERIALS.

I. NOTE: REQUIRED ROOF LEVEL 120V WP/GFI RECEPTACLES ARE EXISTING TO REMAIN. RECEPTACLES MAY BE MOUNTED ON HVAC EQUIPMENT TO BE REMOVED/REPLACED. IN THAT CASE, PROVIDE A NEW RECEPTACLE, BOX AND W.P. COVER TO REPLACE THE RECEPTACLE. REUSE THE (E) BRANCH CIRCUIT. MOUNT REPLACEMENT RECEPTACLE ON PEDESTAL OR ON NEW HVAC UNIT WHERE ALLOWED.

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☐ SHEET REFERENCE NOTES

1. DISCONNECT AND REMOVE (E) ROOF MOUNTED MECHANICAL UNIT.
2. (N) ROOF MOUNTED MECHANICAL EQUIPMENT TO REPLACE (E) MECHANICAL EQUIPMENT SLATED FOR DEMOLITION PER MECHANICAL PLANS. PROVIDE (N) ELECTRICAL CONNECTIONS BETWEEN (E) SUB-PANEL(S) IN BUILDING BELOW AND (N) EQUIPMENT AS SHOWN. REUTILIZE (E) CONDUIT PATHWAY (VERIFY 3/4" MINIMUM) WHERE POSSIBLE TO SOURCE PANELS, AND EXTEND CONDUIT AS NECESSARY TO (N) UNIT DISCONNECT.
3. (E) ELECTRICAL SUB-PANEL BELOW INSIDE (E) BUILDING TO REMAIN. FIELD VERIFY (E) LOCATION (LOCATION SHOWN BASED ON AVAILABLE RECORD DRAWINGS). PROVIDE (N) BRANCH CIRCUIT BREAKER AND CONNECTION FOR (N) MECHANICAL UNIT, PER "NEW WORK (REPLACEMENT EQUIPMENT)" TABLE ON THIS SHEET. (N) BREAKER TO MATCH AIC RATING OF (E) BREAKERS IN (E) SUB-PANEL AND SHALL BE HACR RATED.
4. APPROXIMATE LOCATION (E) GFCI. WEATHERPROOF WHILE IN-USE, HVAC SERVICE EQUIPMENT RECEPTACLE TO REMAIN. FIELD VERIFY.
5. HVAC SERVICE EQUIPMENT RECEPTACLE OUTLET REQUIRED WITHIN 25' OF EQUIPMENT, PER CEC 210.63 & CMC 303.8.5(2).

General Notes

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BUILDING J ELECTRICAL ROOF PLAN

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Architect

No.	Revision/Submission	Date

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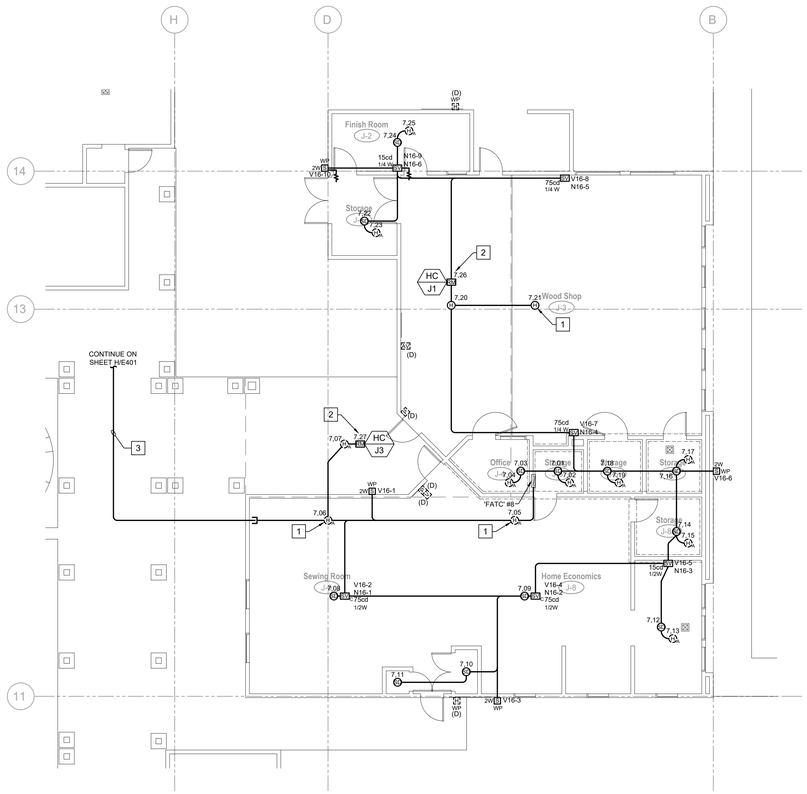

BUILDING J FIRE ALARM FLOOR PLAN

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

NORTH

FIRE ALARM DEVICE SYMBOLS

"SEE SHEET X/E401" FOR FURTHER INFORMATION

WP (D) H	FIRE ALARM, Exterior Horn (EH). PAINTING. Paint exterior cement plaster wall, joint to joint. Paint wall after the (E) FA device is removed and before the new device is installed. Provide a mock-up on the method of installing the new device and sealing the wall from water intrusion.
(D) P (D) V (D) H	ELECTRICAL, New stainless steel cover plate at (E) FA Pull Station or (E) Strobe device that is to be removed from service. Provide oversized plate when required to cover paint cut lines.
H	FIRE ALARM, Interior Horn (IH). PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. When Vinyl Covered Tackboard (TB) occurs, remove and replace a whole sheet of tackboard, and repair the rubber floor base.
(D) V	FIRE ALARM, (E) Visual Device. Remove and replace. See Electrical. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. (AV) Horn/Strobe at similar conditions.
(D) S	FIRE ALARM, (E) Smoke Detector mounted to bottom of acoustical ceiling system. Remove and Replace. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV	FIRE ALARM, New Visual Speaker Device with a Cut-In Electrical Box. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. Paint raceway to match wall color and sheen.
ANN	FIRE ALARM, Annunciator. CUT & PATCH. Cut & Patch (E) wall finish to accommodate a New FA Device. Remove and replace an entire tackboard panel. Match (E) Vinyl Panel, Typ.
SV C	FIRE ALARM, Visual Horn device mounted to bottom of acoustical ceiling system. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV SUR	FIRE ALARM, Visual Horn device mounted to bottom of exposed structure and new exposed to view pathway and pull boxes. PAINTING, Paint the new electrical pathway and match the existing surface color and sheen. Refer to the Ceiling Plan for ceiling conditions.

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☐ SHEET REFERENCE NOTES

1. MOUNT DETECTOR WITHIN 3FT OF THE PEAK OF THE ROOF.
2. PROVIDE FIRE ALARM RELAY MODULE AT EXISTING AIR HANDLER UNIT TO SHUT DOWN UNIT UPON ACTIVATION OF THE FIRE ALARM SYSTEM. SEE DETAIL 3-X/E403.
3. PROVIDE (1)1" FIRE ALARM CONDUIT MOUNTED UNDER COVERED WALKWAY, STUB INTO BUILD ABOVE ACCESSIBLE CEILING SPACE. PAINT TO MATCH.

GENERAL FIRE ALARM PLAN NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, AND CONDUCTORS SHALL BE REMOVED. EXSITING RACEWAYS AND SUPPORTS CAN REMAIN AND BE REUSED FOR INSTALLATION OF NEW FIRE ALARM SYSTEM. STAINLESS STEEL BLANK COVERS SHALL BE INSTALLED ON ALL BOXES NOT USED DURING INSTALLATION OF NEW FIRE ALARM SYSTEM. OVERSIZED BLANK STAINLESS STEEL COVER PLATES SHALL BE USED TO COMPLETELY CONCEAL EXISTING OUTLET BOXES.
2. ALL NEW FIRE ALARM CABLING TO BE INSTALLED IN NEW RACEWAYS AND NEW J-HOOKS, MINIMUM CONDUIT SIZE IS 3/4" WITH CONDUIT FILL NOT TO EXCEED 40%. EXISTING RACEWAYS AND J-HOOKS MAY BE REUSED WHERE AVAILABLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ACCESSIBLE CEILING SPACES AND INACCESSIBLE CEILING SPACES. NEW RACEWAY SHALL BE CONCEALED WERE POSSIBLE.
3. FIRE WATCH - DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.
4. MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN SMOKE DETECTORS AND AIR SUPPLIES. SMOKE DETECTOR INSTALLATION SHALL BE AS CLOSE TO PLAN AS POSSIBLE WITH MEETING THE 3'-0" RULE.
5. CO DETECTOR LOCATIONS - BASED ON AS-BUILT DRAWING AND LIMITED FIELD INVESTIGATION, CO DETECTORS HAVE BEEN PROVIDED AND LOCATED NEAREST TO THE FIRST SUPPLY REGISTER COMING FROM THE HVAC UNIT INTO THE CLASSROOM.
6. ATTIC ACCESS DOORS - WHERE EQUIPMENT IS INSTALLED IN AREAS ABOVE INACCESSIBLE CEILING SPACES, CONTRACTOR TO PROVIDE AND INSTALL REQUIRED ACCESS DOORS FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT, CONTRACTOR TO FIELD VERIFY LOCATIONS WHERE ACCESS DOORS WILL BE REQUIRED. REFER TO ARCHITECTURAL PLANS FOR ACCESS DOOR INFORMATION.
7. CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING AND WALL FINISHES IN KIND AS REQUIRED FOR INSTALLATION OF NEW WORK, FIELD COORDINATE AND VERIFY EXISTING CEILINGS AND WALL FINISHES WITH ARCHITECTURAL PLANS.

General Notes

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EXPIRES: 06/30/26

Consultant THOMA #22-8087

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LICENSED ARCHITECT ROBERT K. FERRARO No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

Architect

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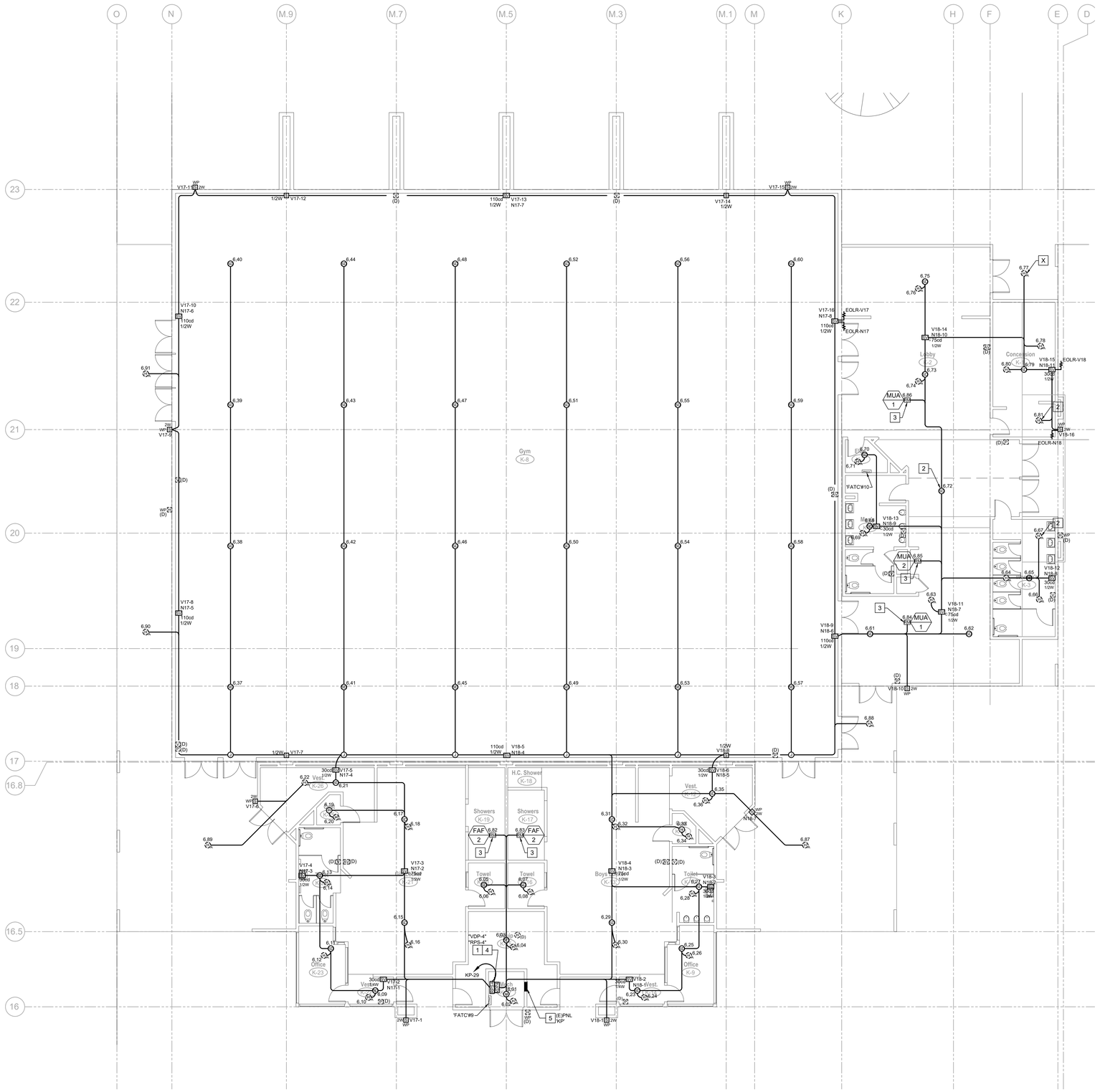
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

K:\ENG\2022\22-8087\22-8087_JE401_BLDG J FA FLR PLN.dwg - khanjiev - May 16, 2023 - 5:08pm

FIRE ALARM DEVICE SYMBOLS

"SEE SHEET X/E401" FOR FURTHER INFORMATION

WP H (D)	FIRE ALARM, Exterior Horn (EH). PAINTING. Paint exterior cement plaster wall, joint to joint. Paint wall after the (E) FA device is removed and before the new device is installed. Provide a mock-up on the method of installing the new device and sealing the wall from water intrusion.
(D) P, (D) V, (D) H	ELECTRICAL, New stainless steel cover plate at (E) FA Pull Station or (E) Strobe device that is to be removed from service. Provide oversized plate when required to cover paint cut lines.
H	FIRE ALARM, Interior Horn (IH). PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. When Vinyl Covered Tackboard (TB) occurs, remove and replace a whole sheet of tackboard, and repair the rubber floor base.
(D) V	FIRE ALARM, (E) Visual Device. Remove and replace. See Electrical. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. (AV) Horn/Strobe at similar conditions.
(D) SD	FIRE ALARM, (E) Smoke Detector mounted to bottom of acoustical ceiling system. Remove and Replace. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV	FIRE ALARM, New Visual Speaker Device with a Cut-In Electrical Box. PAINTING. Paint interior wall surfaces, and feather in the paint to match the existing paint. Match the existing color and sheen. Paint wall surfaces after the (E) FA device is removed before the new device is installed. Paint raceway to match wall color and sheen.
ANN	FIRE ALARM, Annunciator. CUT & PATCH. Cut & Patch (E) wall finish to accommodate a New FA Device. Remove and replace an entire tackboard panel. Match (E) Vinyl Panel, Typ.
SV C	FIRE ALARM, Visual Horn device mounted to bottom of acoustical ceiling system. Account 15% of room area for ceiling tile breakage during construction. Replace all broken acoustical tiles. Match the existing acoustical tile. Refer to the Ceiling Plan for ceiling conditions. Coordinate installation with all other ceiling mounted items. See Fire Alarm Plans for other ceiling devices.
SV SUR	FIRE ALARM, Visual Horn device mounted to bottom of exposed structure and new exposed to view pathway and pull boxes. PAINTING, Paint the new electrical pathway and match the existing surface color and sheen. Refer to the Ceiling Plan for ceiling conditions.



BUILDING K FIRE ALARM FLOOR PLAN

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

NORTH

DSA File No.:
15-95

DSA Application No.:
03-122615

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

Agency Approval

SHEET REFERENCE NOTES

1. FIRE ALARM VOICE DISTRIBUTION PANEL 'VDP-4' AND REMOTE POWER SUPPLY 'RPS-4'. SEE FIRE ALARM RISER DIAGRAM X-X/E402.
2. MOUNT DETECTOR WITHIN 3FT OF THE PEAK OF THE ROOF.
3. PROVIDE FIRE ALARM RELAY MODULE AT EXISTING AIR HANDLER UNIT TO SHUT DOWN UNIT UPON ACTIVATION OF THE FIRE ALARM SYSTEM. SEE DETAIL 3-X/E403.
4. PROVIDE (N) 120V POWER CONNECTION ((1) 3/4"C - (2) #12 AND (1) #12 GND), TO POWER (N) FIRE ALARM EQUIPMENT--CONNECT TO (E) SPARE CIRCUIT BREAKER IN (E) PANEL "KP" OR PROVIDE (N) 20A/1P BREAKER. CONTRACTOR SHALL ENSURE CIRCUIT BREAKER HAS RED, LOCKING HANDLE.
5. (E) ELECTRICAL PANEL TO REMAIN. REFER TO OTHER REFERENCE NOTES ON THIS SHEET FOR (N) 120V POWER CONNECTIONS TO (N) FIRE ALARM EQUIPMENT.
6. EXCITING FIRE ALARM DEVICE TO BE REMOVED (TYP.).

GENERAL FIRE ALARM PLAN NOTES

1. ALL EXISTING FIRE ALARM EQUIPMENT, DEVICES, AND CONDUCTORS SHALL BE REMOVED. EXSITING RACEWAYS AND SUPPORTS CAN REMAIN AND BE REUSED FOR INSTALLATION OF NEW FIRE ALARM SYSTEM. STAINLESS STEEL BLANK COVERS SHALL BE INSTALLED ON ALL BOXES NOT USED DURING INSTALLATION OF NEW FIRE ALARM SYSTEM. OVERSIZED BLANK STAINLESS STEEL COVER PLATES SHALL BE USED TO COMPLETELY CONCEAL EXISTING OUTLET BOXES.
2. ALL NEW FIRE ALARM CABLING TO BE INSTALLED IN NEW RACEWAYS AND NEW J-HOOKS, MINIMUM CONDUIT SIZE IS 3/4" WITH CONDUIT FILL NOT TO EXCEED 40%. EXISTING RACEWAYS AND J-HOOKS MAY BE REUSED WHERE AVAILABLE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF ACCESSIBLE CEILING SPACES AND INACCESSIBLE CEILING SPACES. NEW RACEWAY SHALL BE CONCEALED WERE POSSIBLE.
3. FIRE WATCH - DURING INSTALLATION OF THE NEW FIRE ALARM SYSTEM, A FIRE WATCH SHALL BE USED IN ACCORDANCE WITH CFC 901.7. THE FIRE WATCH SHALL REMAIN IN PLACE UNTIL THE COMPLETION OF THE FIRE ALARM INSTALLATION AND ALL TESTS AND CERTIFICATIONS HAVE BEEN COMPLETED.
4. MAINTAIN A MINIMUM DISTANCE OF 3'-0" BETWEEN SMOKE DETECTORS AND AIR SUPPLIES. SMOKE DETECTOR INSTALLATION SHALL BE AS CLOSE TO PLAN AS POSSIBLE WITH MEETING THE 3'-0" RULE.
5. CO DETECTOR LOCATIONS - BASED ON AS-BUILT DRAWING AND LIMITED FIELD INVESTIGATION, CO DETECTORS HAVE BEEN PROVIDED AND LOCATED NEAREST TO THE FIRST SUPPLY REGISTER COMING FROM THE HVAC UNIT INTO THE CLASSROOM.
6. ATTIC ACCESS DOORS - WHERE EQUIPMENT IS INSTALLED IN AREAS ABOVE INACCESSIBLE CEILING SPACES, CONTRACTOR TO PROVIDE AND INSTALL REQUIRED ACCESS DOORS FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT, CONTRACTOR TO FIELD VERIFY LOCATIONS WHERE ACCESS DOORS WILL BE REQUIRED, REFER TO ARCHITECTURAL PLANS FOR ACCESS DOOR INFORMATION.
7. CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILING AND WALL FINISHES IN KIND AS REQUIRED FOR INSTALLATION OF NEW WORK, FIELD COORDINATE AND VERIFY EXISTING CEILINGS AND WALL FINISHES WITH ARCHITECTURAL PLANS.

General Notes

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EXPIRES: 06/30/26
THOMA #22-8087

Consultant

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING K FIRE ALARM FLOOR PLAN

Drawing

darden architects
ARCHITECTURE
PLANNING
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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051

LICENSED ARCHITECT ROBERT K. FENWICK No. C23724 Exp. 4-30-25 STATE OF CALIFORNIA

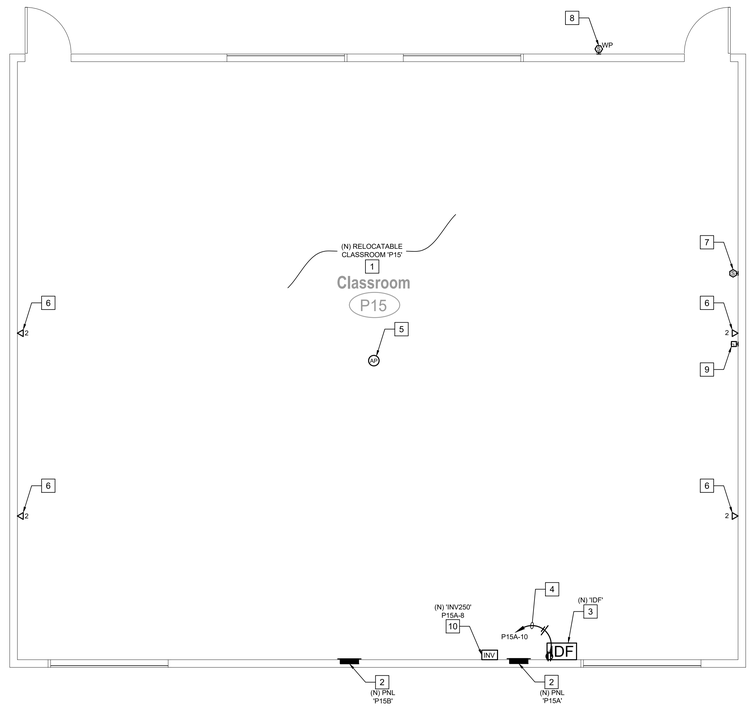
Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	K/E401
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

K:\ENG\2022\22-8087\22-8087_KE401_BLDG K FA FLR PLN.dwg - Pat - Mar 22, 2023 - 7:48am



NORTH

BUILDING P15 POWER AND SIGNAL FLOOR PLAN

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

DSA File No.:
15-95

DSA Application No.:
03-122615

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DATE: 07/20/2023

Agency Approval

☐ SHEET REFERENCE NOTES

1. REFER TO PORTABLE CLASSROOM BUILDING MANUFACTURER SHEETS FOR ALL POWER AND LIGHTING DEVICES PROVIDED INTERIOR AND EXTERIOR TO BUILDING THAT ARE TO BE PROCURED AND INSTALLED BY THE RELOCATABLE BUILDING MANUFACTURER (UNLESS INDICATED OTHERWISE ON THIS SHEET). EC SHALL BE RESPONSIBLE FOR PROVIDING ALL TELECOMMUNICATIONS DEVICES, AS WELL AS CABLING AND ABOVE CEILING RACEWAYS FOR ALL TELECOM RELATED DEVICES, AND TERMINATE AT THE (N) IDF CABINET; REFER TO SHEET X/E202 FOR FURTHER INFORMATION. EC SHALL BE FULLY RESPONSIBLE FOR INSTALLATION OF ALL REQUIRED FIRE ALARM SYSTEMS AND ASSOCIATED COMPONENTS IN THIS BUILDING (REFER TO SHEET G/E401).

2. (N) 100A (100A MCB), 120/208V, 1PH, 3W ELECTRICAL SUB-PANEL PROVIDED BY BUILDING MANUFACTURER. FIELD VERIFY LOCATION FOR ELECTRICAL CONNECTION. SEE SINGLE LINE DIAGRAM (X/E201) FOR FEEDER CONDUIT AND CONDUCTOR SIZING. REFER TO BUILDING MANUFACTURER DRAWINGS FOR PANEL SCHEDULE AND CONNECTED LOADS.

3. (N) WALL MOUNTED INTERMEDIATE DISTRIBUTION FRAME 'IDF' CABINET INSIDE RELOCTABLE BUILDING PER DISTRICT IT STANDARDS. CONFIRM LOCATION WITH DISTRICT PRIOR TO INSTALLATION. PROVIDE (N) FIBER OPTIC CABLING CONNECTIONS TO (N) FIBER OPTIC TERMINATION POINT IN (N) IDF CABINET, PER COMMUNICATIONS RISER DIAGRAM (SHEET X/E202). REFER TO DETAIL 2/X/E302 FOR CABINET AND CONTENTS INFORMATION AND DETAIL 3/X/E302 FOR MOUNTING.

4. PROVIDE (N) POWER CONNECTION ((1) 3/4"C - (2) #12 AND (1) #12 GND), TO POWER (N) DUPLEX RECEPTACLE IN (N) IDF CABINET (PER DETAIL 2/X/E302)--CONNECT TO (N) CIRCUIT BREAKER (20/1P; PROVIDED BY EC) IN PANEL 'P15A'; REFER TO RELOCATABLE BUILDING MANUFACTURER'S ELECTRICAL SHEETS FOR PANEL INFORMATION.

5. (N) CEILING MOUNTED WIRELESS ACCESS POINT HARDWARE TO BE PROVIDED BY DISTRICT STAFF AND INSTALLED BY CONTRACTOR. ROUTE (2) CAT6A CABLES TO BISCUIT IN ACCESSIBLE CEILING SPACE AT THIS LOCATION. SEE DETAIL 4/X/E302 FOR INSTALLATION, AND TELECOMMUNICATIONS RISER DIAGRAM ON SHEET X/E202.

6. (N) 4-PORT DATA OUTLET WITH (2) DEDICATED CAT6 CABLES. INSTALL (N) 5-INCH BACKBOX WITH 2-GANG MUD RING AND RECESSED HAND-HOLE FOR ACCESS TO CHASE TO ACCESSIBLE CEILING SPACE. CONTRACTOR SHALL PROVIDE (N)(1) 1-1/4"C STUB TO ACCESSIBLE CEILING SPACE. CONTRACTOR SHALL PROVIDE LOW VOLTAGE CABLING, TERMINATION AND TESTING. VERIFY DESIRED LOCATION WITH DISTRICT REPRESENTATIVE PRIOR TO INSTALLATION.

7. (N) WALL MOUNTED SPEAKERS FOR INTERCOM/BELLS/PA. CONTRACTOR SHALL INSTALL (1) CAT6 CABLE (BLUE) WITH FEMALE TERMINATION FOR POE CAPABLE DEVICE IN ACCESSIBLE CEILING SPACE AND HOMERUN TO 'IDF'. SPEAKER DEVICE TO BE PROVIDED BY DISTRICT STAFF; CONTRACTOR SHALL INSTALL. VERIFY MOUNTING HEIGHT WITH DISTRICT.

8. INSTALL (N) SURFACE MOUNTED WEATHERPROOF INTERCOM SPEAKER . VERIFY MOUNTING HEIGHT WITH DISTRICT; DISTRICT TO PROVIDE DEVICE, CONTRACTOR TO INSTALL. PROVIDE (1) CAT6 CABLE (BLUE) WITH FEMALE TERMINATION FOR POE CAPABLE DEVICE, HOMERUN TO IDF INSIDE BUILDING.

9. (N) BATTERY OPERATED CLOCK TO MATCH EXISTING SITE CLOCK SYSTEM, CONTRACTOR TO FIELD VERIFY EXISTING CLOCKS ON SITE WITH DISTRICT STAFF.

10. (N) EMERGENCY LIGHTING INVERTER (REFER TO SHEET X/E203 MISC. LUMINAIRE SCHEDULE FOR REQUIREMENTS) FOR (N) POLE MOUNTED EGRESS SITE LIGHTING SHOWN ON SHEET SD/E201. CONNECT TO ASSIGNED BLDG. PANEL CIRCUIT WITH CONDUIT INSTALLED IN ACCESSIBLE CEILING SPACE AND EXPOSED ON WALL.

General Notes

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EXPIRES: 06/30/26

Consultant THOMA #22-8087

Earl Warren Junior High School Modernization Phase 1

Panama-Buena Vista Union School District
Bakersfield, CA 93313

Project

BUILDING P15 POWER AND SIGNAL FLOOR PLAN

Drawing

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LICENSED ARCHITECT
ROBERT K. FERRARO
No. C23724
Exp. 4-30-25
STATE OF CALIFORNIA

Architect

No.	Revision/Submission	Date

Revision

	Designed By: PM	Copyright 2022 Darden Architects
Scale: AS NOTED	Drawn By: KH	P/E101
Project Number: 2228	Checked By: JT	
Date: 03/22/2023	Reviewed By: JT	

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mobile modular

11450 MISSION BLVD.
MIRA LOMA, CA 91752

EXISTING STOCKPILE BUILDINGS MODIFICATION PLANS FOR EXPANSION OF 24'X40' BUILDINGS TO 48'X40' MODIFICATIONS ARE BASED ON DSA-APPROVED STOCKPILE A#65965

NOTE:
ALL THE STOCKPILES LISTED IN THIS PC WERE DESIGNED FOR MAXIMUM SEISMIC LOADS IN CA ACCORDING TO THE CODES UNDER WHICH THEY WERE DESIGNED (1988 – 2007 CBC), AND CAN BE PLACED ANYWHERE IN THE STATE FOR SEISMIC CONSIDERATIONS PER DSA POLICY

SHEET INDEX

OPTIONS	SHEET TITLE	SHEET NUMBER
COVER SHEET	GENERAL NOTES; APPLICABLE CODES; BUILDING DESIGN DATA; WIND DESIGN DATA, EARTHQUAKE DESIGN DATA	T-1
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ALL	T-24 ENERGY CALCULATIONS	T-3
ALL	T-24 ENERGY CALCULATIONS	T-4
BUILDING SIZE		
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48X40	MODIFICATION PLAN (ARCHITECTURAL) FOR 48X40 BLDG	A-1
ALL	DOOR, WINDOW & FINISH SCHEDULES	A-2
ALL	ROOF PLAN	A-3
48X40	EXTERIOR ELEVATIONS 48X40 BLDG.	A-4
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48X40	ELECTRICAL PLAN FOR486X40 BLDG.	E-1
48X40	MECHANICAL PLAN FOR 48X40 BLDG.	M-1

TITLE 24 CODES:

2022 California Administrative Code (CAC)..... (Part 1, Title 24, CCR)

2019 California Building Code (CBC), Volumes 1 and 2 ..... (Part 2, Title 24, CCR)

(2018 International Building Code with 2021 California amendments)

2019 California Electrical Code ..... (Part 3, Title 24, CCR)

(2017 National Electrical Code with 2022 California amendments)

2019 California Mechanical Code (CMC)..... (Part 4, Title 24, CCR)

(2018 Uniform Mechanical Code with 2019 California amendments)

2019 California Plumbing Code (CPC) ..... (Part 5, Title 24, CCR)

(2018 Uniform Plumbing Code with 2019 California amendments)

2019 California Energy Code ..... (Part 6, Title 24, CCR)

2019 California Fire Code (CFC) ..... (Part 9, Title 24, CCR)

(2018 International Fire Code with 2019 California Amendments)

2019 California Green Building Standards Code.....(Part 11, Title 24, CCR)

2019 California Referenced Standards Code.....(Part 12, Title 24, CCR)

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

2019 CBC, Chapter 35

2019 CFC, Chapter 80

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMAS
No.3602
STRUCTURAL
STATE OF CALIFORNIA
Exp. 12-31-23

Date Signed: June 30, 2022

NOTES:
1. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DIRECTIVE APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
3. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR; R.B.I.P.
4. ALL DEMOLITION AND CONSTRUCTION WORK SHALL COMPLY WITH CFC CHAPTER 33.

BUILDING DATA FOR PC 266 / STOCKPILE A#65965	
24'X40' / 48'X40' BLD'G	
OCCUPANCY	E-1 & E-2
TYPE OF CONSTRUCTION	V-N
WIND LOAD	70 MPH EXP "C"
FLOOR LIVE LOAD	50 PSF
ROOF LIVE LOAD	20 PSF
BUILDING AREA	980/1920 SQ. FT.
STRUCTURAL SYSTEM	RIGID FRAME

APPLICABLE CODES FOR PC 266 STOCKPILE/65965

TITLE 24 CODES:

2001 BUILDING STANDARDS ADMINISTRATIVE CODE.....(PART 1, TITLE 24, CCR)

2001 CALIFORNIA BUILDING CODE (CBC).....(PART 2, TITLE 24, CCR)

(1997 UNIFORM BUILDING CODE VOLUMES 1,2,3 WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA ELECTRICAL CODE (CEC).....(PART 4, TITLE 24 CCR)

(1999 NATIONAL ELECTRICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA MECHANICAL CODE (CMC).....(PART 4, TITLE 24, CCR)

(2000 IAPMO UNIFORM MECHANICAL CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA PLUMBING CODE (CPC).....(PART 5, TITLE 24, CCR)

(2000 IAPMO UNIFORM PLUMBING CODE WITH 2001 CALIFORNIA AMENDMENTS)

2001 CALIFORNIA FIRE CODE (CFC).....(PART 9, TITLE 24, CCR)

2001 CALIFORNIA REFERENCE STANDARDS CODE.....(PART 12, TITLE 24, CCR)

1990 TITLE 19, CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

2001 CALIFORNIA ENERGY CODE.....(PART 6, TITLE 24, CCR)

2001 CALIFORNIA ELEVATOR SAFETY CONST. CODE.....(PART 7, TITLE 24, CCR)

APPROVAL – PC ENGINEER OF RECORD

EXL
STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710

MEMBER
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TABLE OF CONTENTS

Sheet No.	Description	Dated	Revised

MOBILE MODULAR MANAGEMENT
11450 MISSION BLVD.
MIRA LOMA, CA 91752

COVER SHEET

DRAWN
CHECKED
DATE NOVEMBER 1, 2021
SCALE
JOB NO.

T – 1

OF 12 SHEETS

MOBILE MODULAR MANAGEMENT STOCKPILE MODIFICATION SHEET T.DWG

CLASSROOM SIZE	SERIAL NUMBER	SIDEWALL REMOVAL	SIDEWALL ADDITION	DOOR OPENING INFILL	WINDOW OPENING INFILL	HVAC OPENING INFILL	T-BAR CEILING REALIGNMENT
LIST OF SERIAL NUMBERS APPLICABLE TO THIS STOCKPILE PLAN							
48x40	28432						
48x40	28433	X					X
48x40	27236	X			X		X
48x40	27237			X			
48x40	27188						
48x40	27189	X					X
48x40	28470	X			X		X
48x40	28471			X			
48x40	26988						
48x40	26989	X					X
48x40	27322	X			X		X
48x40	27323			X			
48x40	18586						
48x40	18587	X					X
48x40	27090	X			X		X
48x40	27091			X			
48x40	27126						
48x40	27127	X					X
48x40	27328	X			X		X
48x40	27329			X			
48x40	18584						
48x40	18585	X					X
48x40	26840	X			X		X
48x40	26841			X			
48x40	27380						
48x40	27381	X					X
48x40	27384	X			X		X
48x40	27385			X			
48x40	27144						
48x40	27145	X					X
48x40	27028	X			X		X
48x40	27029			X			
48x40	26792						
48x40	26793	X					X
48x40	20175-MT	X			X		X
48x40	20176-MT			X			
48x40	26774						
48x40	26775	X					X
48x40	27006	X			X		X
48x40	27007			X			
48x40	21793						
48x40	21794	X					X
48x40	27060	X			X		X
48x40	27061			X			
48x40	27034						
48x40	27035	X					X
48x40	27038	X			X		X
48x40	27039			X			
48x40	26936						
48x40	26937	X					X
48x40	26938	X			X		X
48x40	26939			X			
48x40	26808						
48x40	26809	X					X
48x40	21827	X			X		X
48x40	21828			X			
48x40	27000						
48x40	27001	X					X
48x40	27246	X			X		X
48x40	27247			X			
48x40	27050						
48x40	27051	X					X
48x40	27114	X			X		X
48x40	27115			X			
48x40	27004						
48x40	27005	X					X
48x40	27008	X			X		X
48x40	27009			X			
48x40	27194						
48x40	27195	X					X
48x40	27160	X			X		X
48x40	27161			X			
48x40	27148						
48x40	27149	X					X
48x40	26742-MT	X			X		X
48x40	26743-MT			X			
48x40	26962						
48x40	26963	X					X
48x40	21877	X			X		X
48x40	21878			X			

NOTE:
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APP: 03-122615 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA

Date Signed: June 30, 2022

MOBILE MODULAR MANAGEMENT
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SERIAL NUMBERS

APPROVAL – PC ENGINEER OF RECORD

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Sheet No	Description	Dated	Revised

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OF 12 SHEETS

MOBILE MODULAR MANAGEMENT STOCKPILE MODIFICATION SHEET T-2.DWG

Project Name:	48x40 Modular	NRCC-PRF-01-E	Page 1 of 10
Project Address:	LAUSD Los Angeles	Calculation Date/Time:	14:12, Fri, May 14, 2021
Input File Name:	48x40 Modular.cibd19x		

A. GENERAL INFORMATION

1	Project Location (city)	Los Angeles	8	Standards Version	Compliance2019
2	CA Zip Code		9	Compliance Software (version)	EnergyPro 8.2
3	Climate Zone	9	10	Weather File	LOS-ANGELES-DOWNTOWN_722874_CZ2010.epw
4	Total Conditioned Floor Area in Scope	1,920 ft^2	11	Building Orientation (deg)	(N) 345 deg
5	Total Unconditioned Floor Area	0 ft^2	12	Permitted Scope of Work	ExistingAlteration
6	Total # of Stories (Habitable Above Grade)	1	13	Building Type(s)	Nonresidential
7	Total # of dwelling units	0	14	Gas Type	NaturalGas

B. PROJECT SUMMARY

Table Instructions: Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within permit application.

Building Components Complying via Performance					Building Components Complying Prescriptively	
Envelope (see Table G)	☒ Performance	Covered Process: Commercial Kitchens	☐ Performance		*The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).*	
	☐ Not Included		☒ Not Included			
Mechanical (see Table H)	☐ Performance	Covered Process: Computer Rooms	☐ Performance		Indoor Lighting (Unconditioned)§140.6	*NRCC-LTI-E*
	☒ Not Included		☒ Not Included		Outdoor Lighting §140.7	*NRCC-LTO-E*
Domestic Hot Water (see Table I)	☐ Performance	Covered Process: Laboratory Exhaust	☐ Performance		Sign Lighting §140.8	*NRCC -LTS-E*
	☒ Not Included		☒ Not Included		Mandatory Measures	
Lighting (Indoor Conditioned, see Table K)	☒ Performance				*Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)*	
	☐ Not Included				Electrical Power Distribution S110.11	*NRCC-ELC-E*
Solar Thermal Water Heating (see Table I)	☐ Performance				Commissioning S120.8	*NRCC-CXR-E*
	☒ Not Included				Solar Ready S110.10	*NRCC-SRA-E*

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C1. COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft^2-yr)

COMPLIES

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	13.82	10.80	3.02
Space Cooling	68.66	80.70	-12.04
Indoor Fans	72.96	67.77	5.19
Heat Rejection	--	--	--
Pumps & Misc.	--	--	--
Domestic Hot Water	17.32	17.32	--
Indoor Lighting	42.04	37.46	4.58
ENERGY STANDARDS COMPLIANCE TOTAL	**214.80**	**214.05**	**0.75 (0.3%)**

[1] *Notes: The number in parenthesis following the Compliance Margin in column 4. represents the Percent Better than Standard.*

C2. RESULTS FOR 'ABOVE CODE' QUALIFICATIONS[1]

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

Miscellaneous Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	77.44	77.44	--
Process	--	--	--
Other Ltg	--	--	--
Process Motors	--	--	--
COMPLIANCE TOTAL PLUS MISCELLANEOUS COMPONENTS	**292.24**	**291.49**	**0.8 (0.3%)**

[1] *Notes: This table is used to document compliance with programs OTHER THAN Title 24 Part 6, if applicable.*

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C3. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	1.1	0.8	0.3	--	--	--
Space Cooling	3.0	3.5	-0.5	--	--	--
Indoor Fans	4.8	4.3	0.5	--	--	--
Heat Rejection	--	--	--	--	--	--
Pumps & Misc.	--	--	--	--	--	--
Domestic Hot Water	--	--	--	18.4	18.4	0.0
Indoor Lighting	2.7	2.4	0.3	--	--	--
Compliance Total	**11.6**	**11.0**	**0.6**	**18.4**	**18.4**	**0.0**
Receptacle	5.1	5.1	0.0	--	--	--
Process	--	--	--	--	--	--
Other Ltg	--	--	--	--	--	--
Process Motors	--	--	--	--	--	--
TOTAL	**16.7**	**16.1**	**0.6**	**18.4**	**18.4**	**0.0**

D. EXCEPTIONAL CONDITIONS

The building does not include service water heating. Verify that service water heating is not required and is not included in the design.

This project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required.

E. HERS VERIFICATION

This Section Does Not Apply

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G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

1	2	3	4
Opaque Surfaces & Orientation	**Total Gross Surface Area (ft^2)**	**Total Fenestration Area (ft^2)**	**Window to Wall Ratio (%)**
North-Facing[1]	384 ft^2	0 ft^2	00.0%
East-Facing[2]	320 ft^2	32 ft^2	10.0%
South-Facing[3]	384 ft^2	32 ft^2	08.3%
West-Facing[4]	320 ft^2	32 ft^2	10.0%
Total	**1,408 ft^2**	**96 ft^2**	**06.8%**
Roof	1,920 ft^2	0 ft^2	00.0%

Notes:
[1] North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW).
[2] East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE).
[3] South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE).
[4] West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	**Surface Type**	**Area (ft^2)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
R-13 Wall7	ExteriorWall	1408	Wood	13	NA	U-Factor	0.102	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in.	A
R-19 Floor12	ExteriorFloor	1920	Wood	19	NA	U-Factor	0.049	Wood framed floor, 16in. OC, 5.5in., R-19 Plywood - 1/2 in. Carpet - 3/4 in.	A

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G3. OPAQUE SURFACE ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9	10
Surface Name	**Surface Type**	**Area (ft^2)**	**Framing Type**	**Cavity R-Value**	**Continuous R-Value**	**Units**	**Value**	**Description of Assembly Layers**	**Status[1]**
R-21 Roof20	Roof	1920	Wood	21	NA	U-Factor	0.049	Metal Standing Seam - 1/16 in. Vapor permeable felt - 1/8 in. Plywood - 3/4 in. Air - Ceiling - 3/4 in. Wood framed roof, 16in. OC, 5.5in., R-21 Gypsum Board - 1/2 in.	A

[1] *Status: N - New, A – Altered, E – Existing*

G4. OPAQUE DOOR SUMMARY

1	2	3
Assembly Name	**Overall U-factor**	**Status[1]**
Metal Door9	0.700	E

G5. FENESTRATION ASSEMBLY SUMMARY

1	2	3	4	5	6	7	8	9
Fenestration Assembly Name / Tag or I.D.	**Fenestration Type / Product Type / Frame Type**	**Certification Method[1]**	**Assembly Method**	**Area ft^2**	**Overall U-factor**	**Overall SHGC**	**Overall VT**	**Status[2]**
Intl Window	VerticalFenestration OperableWindow N/A	NFRC Rated	Manufactured	64	0.65	0.68	0.72	E
New Intl Window	VerticalFenestration OperableWindow N/A	NFRC Rated	Manufactured	32	0.65	0.68	0.72	N

[1] *Newly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease of verification. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.*
[2] *Status: N - New, A – Altered, E – Existing*

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K1. INDOOR CONDITIONED LIGHTING GENERAL INFO

1	2	3	4	5	6
Occupancy Type [1]	**Conditioned Floor Area [2] (ft^2)**	**Installed Lighting Power (Watts)**	**Lighting Control Credits (Watts)**	**Additional (Custom) Allowance**	
				Area Category Footnotes (Watts)	**Tailored Method (Watts)**
Classroom, Lecture, Training, Vocational Areas	1,920	1,198	0	0	0
Building Totals:	**1,920**	**1,198**	**0**	**0**	**0**

[1] See Table 140.6-C
[2] See NRCC-LTI-01-E for unconditioned spaces
[3] Lighting information for existing spaces modeled is not included in the table

K2. INDOOR CONDITIONED LIGHTING SCHEDULE

Luminaire Schedule (includes all permanent installed lighting in conditioned space, and portable lighting over 0.3 w/ft^2 in offices)		**Installed Watts (Conditioned)**			
1	2	3	4	5	6
Name or Item Tag	**Complete Luminaire Description (i.e., 3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)**	**Watts per luminaire**	**How Wattage is Determined**	**Total Number Luminaires**	**Installed Watts**
2x4	49.9w LED	50	According to §130.0(c)	24	1,197

K3. INDOOR CONDITIONED LIGHTING CONTROL CREDITS

Lighting Control Credits Schedule (includes all lighting controls installed in conditioned space for compliance credit per §140.6(a)2 and Table 140.6-A)

1	2	3	4	5	6	7	8	9
Area Description	Primary Function Area (must meet requirements of Table 140.6-A)	Type of Lighting Control	Power Adjustment Factor (PAF)	Luminaire Name or Item Tag	Watts per Luminaires	# of Luminaires	Lighting Controlled (Watts)	Control Credit (Watts)
S-1-Classroom Zone	Classroom, Lecture, Training, Vocational Areas	NA	0.00 0.00 0.00 0.00 0.00	2x4	1197.6	24	1198	0

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Input File Name:	48x40 Modular.cibd19x		

K4. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS

Building Level Controls

1	2
Mandatory Demand Response §110.12(c)	**Shut-Off Controls §130.1(c)**
Required	Required

Area Level Controls (includes all lighting controls installed in conditioned space to meet mandatory requirements per §130.1)

4	5	6	7	8	9	10
Area Description	**Area Category Primary Function Area**	**Area Controls 130.1(a)**	**Multi-Level Controls 130.1(b)**	**Shut-Off Controls 130.1(c)**	**Primary Daylighting 130.1(d)**	**Secondary Daylighting 140.5(d)**

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L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Indoor Lighting	NRCI-LTI-01-E - Must be submitted for all buildings

Project Name:	48x40 Modular	NRCC-PRF-01-E	Page 9 of 10
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Input File Name:	48x40 Modular.cibd19x		

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections shall be made by Documentation Author to indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit:https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Indoor Lighting	NRCA-LTI-02-A - Occupancy Sensors and Automatic Time Switch Controls

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA

Date Signed: June 30, 2022

NOTE:
ALL THE STOCKPILES LISTED IN THIS PC WERE DESIGNED FOR MAXIMUM SEISMIC LOADS IN CA ACCORDING TO THE CODES UNDER WHICH THEY WERE DESIGNED (1988 – 2007 CBC), AND CAN BE PLACED ANYWHERE IN THE STATE FOR SEISMIC CONSIDERATIONS PER DSA POLICY

APPROVAL – PC ENGINEER OF RECORD

EXL
STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710

MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
AMERICAN CONCRETE INSTITUTE
(909) 613–0234
Fax(909) 613–0238

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Sheet No.	Description	Dated	Revised

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

MOBILE MODULAR MANAGEMENT
11450 MISSION BLVD.
MIRA LOMA, CA 91752

TITLE 24 ENERGY CALCULATIONS

DRAWN
CHECKED
DATE NOVEMBER 1, 2021
SCALE
JOB NO.

T—3

OF 12 SHEETS

Project Name:	48x40 Modular	NRCC-PRF-01-E	Page 10 of 10
Project Address:	LAUSD Los Angeles	Calculation Date/Time:	14:12, Fri, May 14, 2021
Input File Name:	48x40 Modular.cibd19x		

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Hayley Monahan	Signature:
Company: EnergySoft	
Address: 1025 5th Street, Suite A	Signature Date: 2021-05-14
City/State/Zip: Novato CA 94945	CEA/ HERS Certification Identification (if applicable):
Phone: 415-301-0163	

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Envelope Designer Name:		Signature:	
Company: Mobile Modular			
Address: 11450 Mission Blvd		Date Signed:	
City/State/Zip: Mira Loma CA 91752			
Phone:		Title:	License #:
Responsible Lighting Designer Name:		Signature:	
Company: Mobile Modular			
Address: 11450 Mission Blvd		Date Signed:	
City/State/Zip: Mira Loma CA 91752			
Phone:		Title:	License #:
Responsible Mechanical Designer Name: - specify -		Signature: NOT IN SCOPE	
Company: Mobile Modular			
Address: 11450 Mission Blvd		Date Signed:	
City/State/Zip: Mira Loma CA 91752			
Phone:		Title:	License #:

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	48x40 Modular	**Report Page:**	**(Page 1 of 7)**
Project Address:	LAUSD	**Date Prepared:**	5/14/202

A. GENERAL INFORMATION

01	Project Location (city)	Los Angeles	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	9			

03 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):

☐ LZ-0: Very Low - Undeveloped Parkland ☐ LZ-2: Moderate - Rural Areas ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval

☐ LZ-1: Low - Developed Parkland ☒ LZ-3: Moderately High - Urban Areas

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01	02
☐ New Lighting System	Must Comply with Allowances from §140.7
☒ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ● Yes ○ No

03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" ref to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L												Compliance Results			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)	OR	Existing Power Allowance §141.0(b)2L (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >=**
0	+	45	+	---	+	---	+	---	OR	---	=	45	≥	45	COMPLIES
Cutoff Compliance (See Table G for Details)															
Controls Compliance (See Table H for Details)															COMPI

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	48x40 Modular	**Report Page:**	**(Page 3 of 7)**
Project Address:	LAUSD	**Date Prepared:**	5/14/2021

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
										Pass	Fail
Ext LTG	15w LED	☐ Linear	15	Mfr. Spec	3	New	☐	45	NA: < 6200 lumens	☐	☐
							Total Design Watts:	45			

** NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.*
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
[2] For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
[3] Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
[4] Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	48x40 Modular	**Report Page:**	**(Page 4 of 7)**
Project Address:	LAUSD	**Date Prepared:**	5/14/2021

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
Entry	Photocontrol	Yes	Yes	☐	☐

** NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.*
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.	01			
	☐ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)		
		☒ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)				
This section does not apply to this project.				
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)				
This section does not apply to this project.				

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	48x40 Modular	**Report Page:**	**(Page 5 of 7)**
Project Address:	LAUSD	**Date Prepared:**	5/14/2021

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B .

01	02	03	04	05	06	07	08	09	10
Area Description	Application per Table 140.7-B[1]	CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				Additional Allowance (Watts)
		# of Locations	Allowance per Location[2]	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	
Entry	Building Entrance/Exit	3	19	57	Ext LTG	15	3	45	45
						Total Design Watts for this Area:		45	
						Total Allowance (Watts) All Areas:			45

[1] FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.
[2] The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B .
[3] For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	48x40 Modular	**Report Page:**	**(Page 6 of 7)**
Project Address:	LAUSD	**Date Prepared:**	5/14/2021

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
●	○	NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Yes	No	Form/Title	Field Inspector	
			Pass	Fail
●	○	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐

STATE OF CALIFORNIA

Outdoor Lighting

NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTO-E**
Project Name:	48x40 Modular	**Report Page:**	**(Page 7 of 7)**
Project Address:	LAUSD	**Date Prepared:**	5/14/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Hayley Monahan	Documentation Author Signature:
Company: EnergySoft	Signature Date:
Address: 1025 5th Street, Suite A	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Novato CA 94945	Phone: 415-301-0163

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company: Mobile Modular	Date Signed: 2021-05-14
Address: 11450 Mission Blvd	License:
City/State/Zip: Mira Loma CA 91752	Phone:

NOTE:
ALL THE STOCKPILES LISTED IN THIS PC WERE DESIGNED FOR MAXIMUM SEISMIC LOADS IN CA ACCORDING TO THE CODES UNDER WHICH THEY WERE DESIGNED (1988 – 2007 CBC), AND CAN BE PLACED ANYWHERE IN THE STATE FOR SEISMIC CONSIDERATIONS PER DSA POLICY

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: June 30, 2022

APPROVAL – PC ENGINEER OF RECORD

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SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

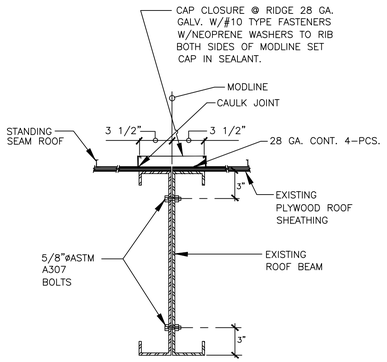
MOBILE MODULAR MANAGEMENT
11450 MISSION BLVD.
MIRA LOMA, CA 91752

TITLE 24 ENERGY CALCULATIONS

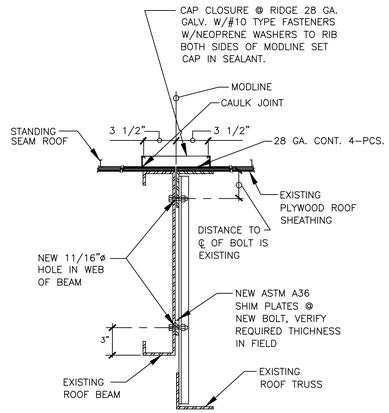
DRAWN
CHECKED
DATE NOVEMBER 1, 2021
SCALE
JOB NO.

T – 4

OF 12 SHEETS



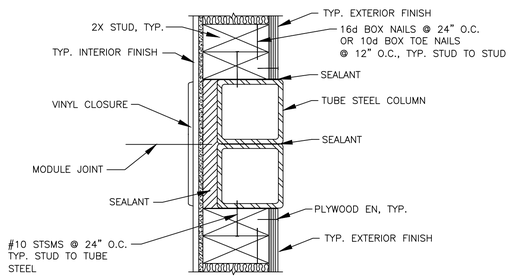
NEW ROOF BEAM TO ROOF BEAM CONNECTION



NEW ROOF BEAM TO ROOF TRUSS CONNECTION

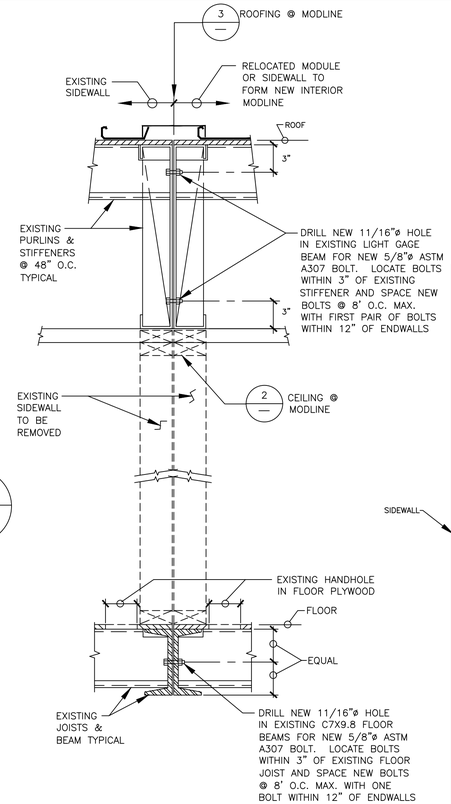
ROOFING @ MODLINE (3)

1 1/2" = 1'-0"

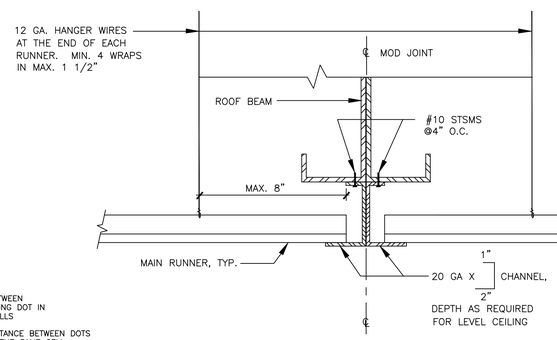


COLUMN @ MODLINE (4)

3" = 1'-0"



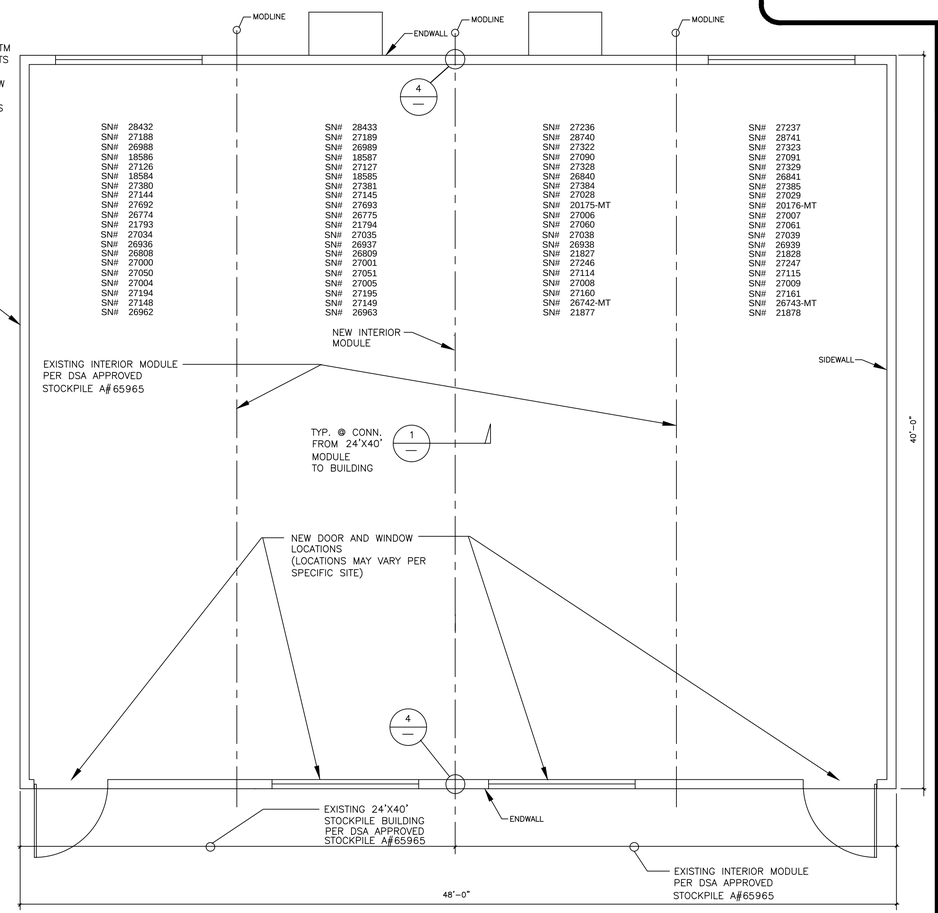
1 1/2" = 1'-0"



NOTE: LAY-IN CEILING TILE NOT SHOWN FOR CLARITY

GRID AT MOD LINE
FREE SIDE (2)

3" = 1'-0"

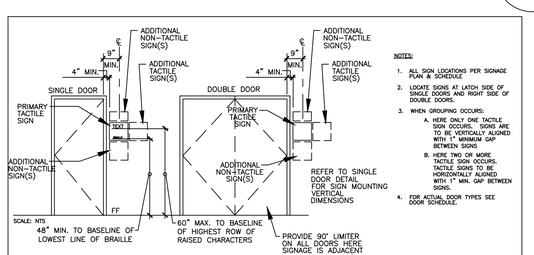


MODIFICATION PLAN

1/4" = 1'-0"

NOTES:

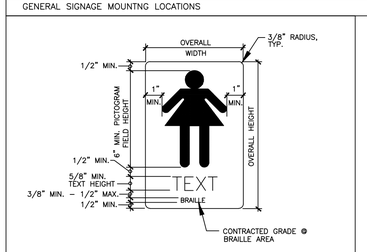
1. MODIFY EXISTING 24'X40' BUILDINGS, FROM A#65965 TO FORM 48'X40' BUILDING, SEE SERIAL NO. LIST ON SHEET T-2.
2. 24'X40' MODULE ADDED TO 24'X40' BUILDING TO FORM 48'X40' MODULE CAN BE ADDED TO SIDES OR INTERIOR; FLOOR PLAN SHOWN ABOVE MAY BE MIRRORED, ADDED 24'X40' MODULE MAY BE LOCATED AS CENTER MODULE.



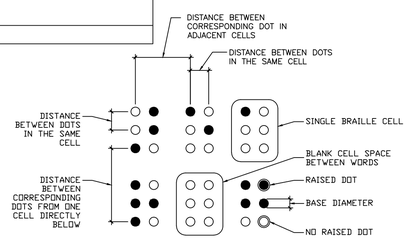
NOTES:

1. ALL SIGN LOCATIONS PER SIGNAGE PLAN & SCHEDULE
2. LOCATE SIGNS AT LATCH SIDE OF SINGLE DOORS AND RIGHT SIDE OF DOUBLE DOORS.
3. WHEN GROUPING OCCURS:
   A. HERE ONLY ONE TACTILE SIGN OCCURS. SIGNS ARE TO BE VERTICALLY ALIGNED WITH 1" MINIMUM GAP BETWEEN SIGNS
   B. HERE TWO OR MORE TACTILE SIGN OCCURS. TACTILE SIGNS TO BE HORIZONTALLY ALIGNED WITH 1" MIN. GAP BETWEEN SIGNS.
4. FOR ACTUAL DOOR TYPES SEE DOOR SCHEDULE.

GENERAL SIGNAGE MOUNTNG LOCATIONS



GENERAL SIGNAGE LAYOUT DETAIL



BRAILLE TEMPLATE

BRAILLE DIMENSIONS TABLE 11B-703.3.1

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIMATER	0.059 (1.5 mm) TO 0.063 (1.6 mm)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL[1]	0.100 (2.5 mm)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS[1]	0.300 (7.6 mm)
DOT HEIGHT	0.025 (0.6 mm) TO 0.037 (0.9 mm)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW[1]	0.395 (10 mm) TO 0.400 (10.2 mm)

1 MEASURED CENTER TO CENTER

NOTE:
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APPROVAL – PC ENGINEER OF RECORD

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REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA

Date Signed: June 30, 2022

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11450 MISSION BLVD.
MIRA LOMA, CA 91752

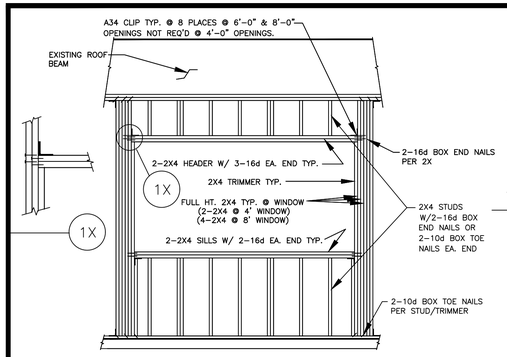
MODIFICATION PLAN FOR 48 X 40 BUILDINGS

DRAWN
CHECKED
DATE NOVEMBER 1, 2021
SCALE
JOB NO.

S-1

OF 12 SHEETS

MOBILE MODULAR STOCKPILE MODIFICATION SHEET S-1.DWG



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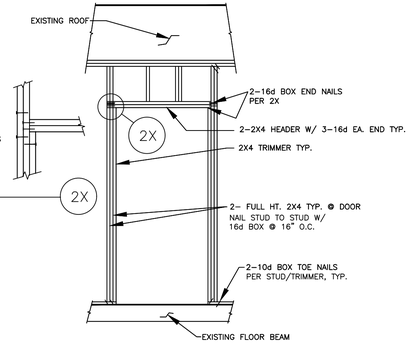

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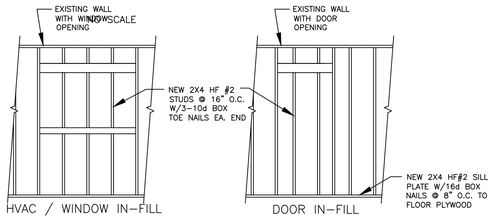


INFILL DETAILS @ EXISTING WALL

3"=1'-0"

3

GA FILE NO. WP 3514	GENERIC	1 HOUR FIRE	35 TO 39 STC SOUND

GYPSUM WALLBOARD, WOOD STUDS

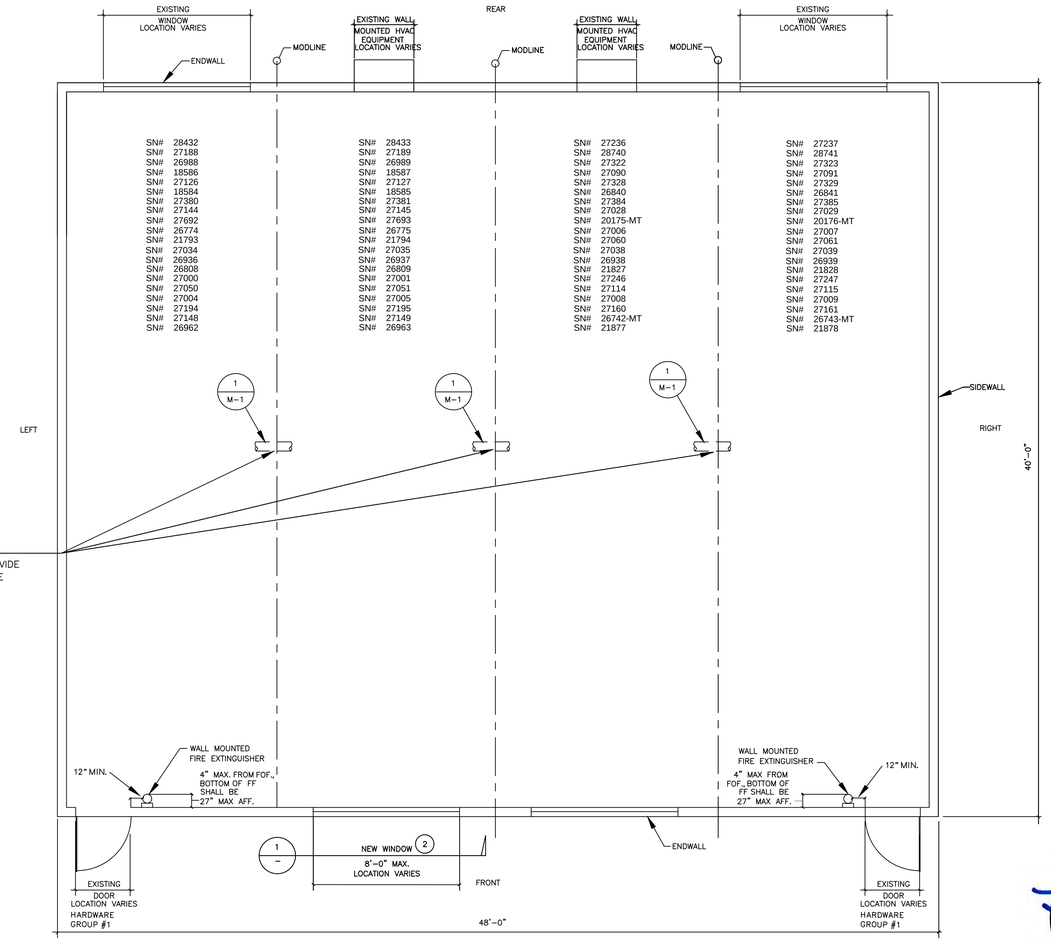
ONE LAYER 5/8" TYPE X GYPSUM WALL BOARD OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 2X4 WOOD STUDS 16" O.C. WITH 1 1/4" TYPE W DRYWALL SCREWS 12" O.C.

JOINTS STAGGERED 16" ON OPPOSITE SIDES. (LOAD-BEARING)

THICKNESS: 4 3/4"
APPROX. WEIGHT: 7 psf
FIRE TEST: SWRI 01-4511-619(1), 3-94
SOUND TEST: SEE WP 3520 (G&H NG-246FT,7-2-65)

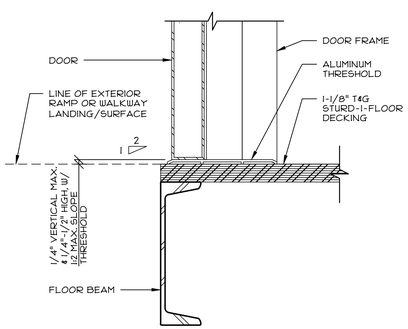
ONE HOUR RATED WALL

4

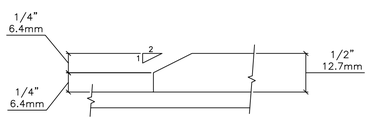


MODIFICATION PLAN

1/4" = 1'-0"

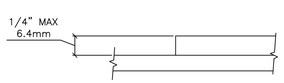


THRESHOLD DETAIL



BEVEL CHANGE IN LEVEL

11B-303.3 BEVELED. CHANGES IN LEVEL BETWEEN 1/4" (6.4mm) HIGH MINIMUM AND 1/2" (12.7mm) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.



VERTICAL CHANGE IN LEVEL

11B-303.2 VERTICAL. CHANGES IN LEVEL OF 1/4" (6.4mm) HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT.

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NOTES:

1. NEW DOORS CAN BE LOCATED ON END WALLS. NUMBER OF NEW 3' WIDE BY 7' HIGH DOORS IS NOT LIMITED. SEPARATE DOORS BY 12" MIN.
2. NEW WINDOWS CAN BE LOCATED ON SIDE OR END WALLS. NUMBER OF NEW WINDOWS IS NOT LIMITED. SEPARATE WINDOWS BY 12" MIN.
3. FILL IN ANY ABANDONED DOORS OR WINDOWS PER DETAIL
4. ADJUST DOOR CLOSER 5 LBS AS REQUIRED.

EGRESS NOTES:

1005.5. DISTRIBUTION OF EGRESS CAPACITY.
WHERE MORE THAN ONE EXIT, OR ACCESS TO MORE THAN ONE EXIT, IS REQUIRED, THE MEANS OF EGRESS SHALL BE CONFIGURED SUCH THAT THE LOSS OF ANY ONE EXIT, OR ACCESS TO ONE EXIT, SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50 PERCENT OF THE REQUIRED CAPACITY.

1014.3 COMMON PATH OF EGRESS TRAVEL.
THE COMMON PATH OF EGRESS TRAVEL SHALL NOT EXCEED THE COMMON PATH OF EGRESS TRAVEL DISTANCES IN TABLE 1014.3.

1015.2.1 TWO EXITS OR EXIT ACCESS DOORWAYS.
WHERE TWO EXITS OR EXIT ACCESS DOORWAYS ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS, THE EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN EXIT DOORS OR EXIT ACCESS DOORWAYS. INTERLOCKING OR SCISSOR STAIRS SHALL BE COUNTED AS ONE EXIT STAIRWAY.

1015.2.2 THREE OR MORE EXITS OR EXIT ACCESS DOORWAYS
WHERE ACCESS TO THREE OR MORE EXITS IS REQUIRED, AT LEAST TWO EXIT DOORS OR EXIT ACCESS DOORWAYS SHALL BE ARRANGED IN ACCORDANCE WITH THE PROVISIONS OF SECTION 1015.2.1 ADDITIONAL REQUIRED EXIT OR EXIT ACCESS DOORWAYS SHALL BE ARRANGED A REASONABLE DISTANCE APART SO THAT IF ONE BECOMES BLOCKED, THE OTHERS WILL BE AVAILABLE.

APPROVAL – PC ENGINEER OF RECORD

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A-1

OF 12 SHEETS

MOBILE MODULAR UNIVERSAL ARCHITECTURAL MODIFICATIONS SHEET A-1.DWG

1 FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WAINSCOT	WALL FINISH FRONT	WALL FINISH REAR	WALL FINISH RIGHT	WALL FINISH LEFT	CEILING TYPE	CEILING FINISH	CEILING HEIGHT	REMARKS
101	OPEN AREA	CPT	B4	–	VTB	VTB	VTB	VTB	AC	FF	8'–6"	

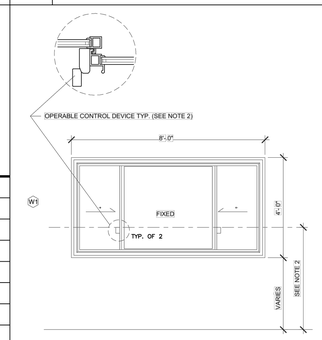
2 WINDOW SCHEDULE

WIN. NO.	SIZE (WxH)	TYPE	HDR. HGT.	REMARKS
W1	8'–0" x 4'–0"	A	7'–0"	WITH INSECT SCREEN
W2				
W3				
W4				
W5				
W6				
W7				

WINDOW FRAMES SHALL BE ANODIZED ALUMINUM W/ 3/16" TEMPERED, DUAL GLAZE, SOLAR GREY TINT W/ LIGHT TRANMISION FACTOR O F46%

OPTION: 1. HIGH PERFORMANCE EMISSIUITY GLASS – "LOW E"

3 WINDOW TYPES



NOTES:

1. WINDOW LOCATION MAY VARY BASED ON PROJECT REQUIREMENTS.
2. OPENING MECHANISM MUST COMPLY w/ CBC SECTIONS:
   - 11B-308 REACH RANGES
   48" MAX. AFF, WHERE FOWARD REACH IS UNOBSTRUCTED OR 44" MAX W/OBSTRUCTION;
   48" MAX. AFF, WHERE SIDE REACH IS UNOBSTRUCTED OR 46" MAX W/OBSTRUCTION;
   - 11B-309 OPERABLE PARTS - THE MECHANISM CANNOT REQUIRE TIGHT GRASPING PINCHING OR TWISTING OF THE WRIST 5LBS MAX FORCE TO OPERATE WINDOW LATCH & TO PUSH/PULL WINDOW.
3. IF NOT EQUIPPED WITH AUTOMATIC SPRINKLER SYSTEMS AND METAL GRILLS ARE ON THE WINDOW OPENING MUST BE EQUIPPED WITH A RELEASE MECHANISM. TYP ALL WINDOWS - SEE 2019 CBC 442.1.5 SPECIAL HAZARDS.

WINDOW - 3/4" INSULATING GLASS UNIT PERFORMANCE
U-VALUE : 0.35
SHGC : 0.24
VT : 0.5

ABBREVIATIONS:
DP - DUAL PANE
T - TEMPERED GLASS

4 FINISH LEGEND

INTERIOR FINISH SPECIFICATIONS

	ITEM	DESCRIPTION
FLOOR	[ ] CPT	CARPET (SEE SPEC.)
	[ ] SV	SHEET VINYL (SEE SPECS.)
	[ ] VCT	1/8"x12"x12" VINYL COMPOSITION TILE, ARMSTRONG OR EXCELON
	[ ] B1	CERAMIC TILE
BASE	[ ] B1	CERAMIC TILE
	[ ] B4	4" RESILIENT TOP SET BASE
	[ ] B6	6" RESILIENT TOP SET BASE
WALLS	[ ] GB	1/2" GYP. BD.
	[ ] VTB	1/2" VINYL COVERED TACK BOARD OVER 1/2" GYP. BOARD BACKING.
	[ ] VGB	1/2" VINYL COVERED GYP. BD. OVER 1/2" GYP. BOARD BACKING.
	[ ] GBW	1/2" GYP. BD. – WATER RESISTANT
	[ ] FRP	3/32" FIBERGLASS REINFORCED PANEL OVER 1/2" MOISTURE RESISTANT GYP. BD.
CLG	[ ] GBX	5/8" GYP. BD. – TYPE 'X'
	[ ] AC	ACCOUSTICAL CEILING

5 DOOR SCHEDULE

DOOR NO.	DOOR OPENING SIZE (WxH)	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR GLAZING	FRAME MATERIAL	FRAME FINISH	HARDWARE GROUP	REMARKS
1	3'–0" x 7'–0"	A	HM	PT	–	HKD	PT	1	
2									
3									
4									
5									
6									
7									
8									
9									

6 DOOR TYPES

AL	–	ALUMINUM STOREFRONT
CG	–	CLEAR GLASS
FG	–	FIRE RATED GLASS
HC	–	HOLLOW CORE
HCL	–	HOLLOW CORE LEGACY
HKD	–	HOLLOW METAL KNOCK DOWN (16 GA.)
HM	–	NON RATED HOLLOW METAL (18 GA.)
HM–20	–	20 MIN. RATED HOLLOW METAL
HM–45	–	45 MIN. RATED HOLLOW RATED
SCL	–	SOLID CORE LEGACY
TG	–	TEMPERED GLASS
TWG	–	ALUMINUM STOREFRONT
SC–NR	–	SOLID CORE NON RATED PAINT
SC–20	–	20 MIN. SOLID CORE
SC–45	–	45 MIN. SOLID CORE
PT	–	PAINT

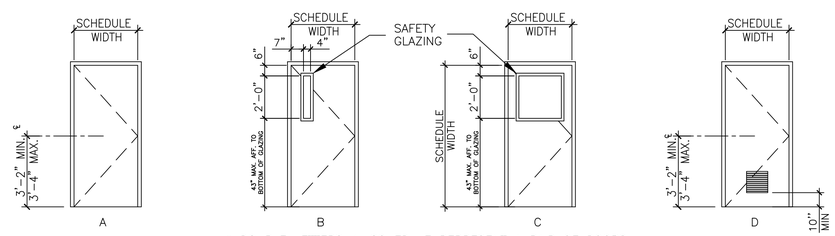
REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMS No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: June 30, 2022

7 EXTERIOR FINISH

MATERIAL	DESC.	SPECIFICATION
SIDING	[ ]4' x 9' x 5/8"	APA RATED OR EQUAL, GROUP 1, TYPE 303 EXTERIOR SIDING
STUCCO FINISH	[ ] CEMENT PLASTER	7/8" CEMENT PLASTER (STUCCO) EXTERIOR FINISH.
ROOFING	[ ] 26 GA. METAL	METAL ROOFING TO BE 26 GA. INTERLOCKING PANELS WITH STANDING SEAM. STEEL DECK SHALL BE GALVANIZED
	[ ] 22 GA. METAL	METAL ROOFING TO BE 22 GA. INTERLOCKING PANELS WITH STANDING SEAM. STEEL DECK SHALL BE GALVANIZED

8 DOOR LEGEND



* DOUBLE LETTERS IN SCHEDULE REPRESENT A PAIR OF DOORS

9 DOOR NOTES

1. ALL DOORS SHALL BE 1 3/4" THICK, U.N.O.
   A. ALL EXIT DOORS SHALL BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE
   B. ALL DOOR SWINGS SERVING AN OCCUPANT LOAD OF 50 OR GREATER SHALL SWING IN THE DIRECTION OF EXIT.
2. ALL SIGNAGE TO BE SUPPLIED AND INSTALLED BY DISTRICT
3. DOORS WITH CLOSURES SHALL NOT EXCEED THE FOLLOWING OPERATING PRESSURE:
   INTERIOR DOORS – 5 POUNDS
   EXTERIOR DOORS – 5 POUNDS
   FIRE DOORS – 15 POUNDS
   CLOSING SPEED: DOOR AND GATE CLOSING SPEED SHALL COMPLY WITH SECTION 11B–404.2.8
   DOOR CLOSURES AND GATE CLOSURES: DOOR AND GATE CLOSURES SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
4. ALL HARDWARE ON DOORS SERVING AREAS ACCESSIBLE TO THE ACC SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER DEVICE OR PANIC BAR.
5. PANIC HARDWARE TO BE MOUNTED 36" TO 44" FROM FINISH FLOOR
6. DEADBOLT LOCKS ARE NOT ALLOWED

10 HARDWARE GROUPS

NOTE:
ROOMS WITH OCCUPANT LOAD GREATER THAN 5 ON K–12 PROJECTS REQUIRE COMPLIANCE WITH CBC 1010.1.11 FOR CLASSROOM SECURITY

HARDWARE GROUP #1 (EXTERIOR CLASSROOM DOOR W/PANIC)

LOCKSET	– SCHLAGE RIM CYLINDER 20022 C123 626 1– BITTED, ALUM OR EQUAL
EXIT DEVICE	– VON DUPRIN AX–PA 99L–2 626, 26D OR EQUAL
BUTTS	– TAH FB179 4.5X4.5 NRP 626, 686 OR EQUAL
CLOSURE	– NORTON 8501DA 689, ALUM OR EQUAL
WEATHER STRIP	– HAGER 819SAV 3684, ALUM OR EQUAL
THRESHOLD	– HAGER 413SA 36, ALUM OR EQUAL
DOOR BOTTOM	– PEMCO 315CN 36, ALUM OR EQUAL

NOTE: ALL CLASSROOM DOORS SHALL BE LOCKABLE FROM THE INSIDE

HARDWARE GROUP #2 (EXTERIOR CLASSROOM DOOR)

LOCKSET	– TAH LHV 75 SAT 626, 26D OR EQUAL
LOCKSET	– SCHLAGE 23–065 626 W/ SPECIAL TAIL, 26D OR EQUAL
BUTTS	– TAH FB179 4.5X4.5 NRP 626, 26D OR EQUAL
CLOSURE	– NORTON 8501DA 689, 689 OR EQUAL
WEATHER STRIP	– HAGER 819SAV 3684, ALUM OR EQUAL
THRESHOLD	– HAGER 413SA 36, ALUM OR EQUAL
DOOR BOTTOM	– PEMCO 315CN 36, ALUM OR EQUAL

NOTE: ALL CLASSROOM DOORS SHALL BE LOCKABLE FROM THE INSIDE

NOTE:
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HARDWARE GROUP #3 (INTERIOR RESTROOM DOORS)

LOCKSET	– TAH LHV 75 SAT 626, 26D OR EQUAL
LOCKSET	– SCHLAGE 23–065 626 W/ SPECIAL TAIL, 26D OR EQUAL
BUTTS	– TAH FB179 4.5X4.5 NRP 626, 26D OR EQUAL
CLOSURE	– NORTON 8501DA 689, 689 OR EQUAL
WEATHER STRIP	– HAGER 819SAV 3684, ALUM OR EQUAL
THRESHOLD	– HAGER 413SA 36, ALUM OR EQUAL
DOOR BOTTOM	– PEMCO 315CN 36, ALUM OR EQUAL

APPROVAL – PC ENGINEER OF RECORD

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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

MOBILE MODULAR MANAGEMENT
11450 MISSION BLVD.
MIRA LOMA, CA 91752

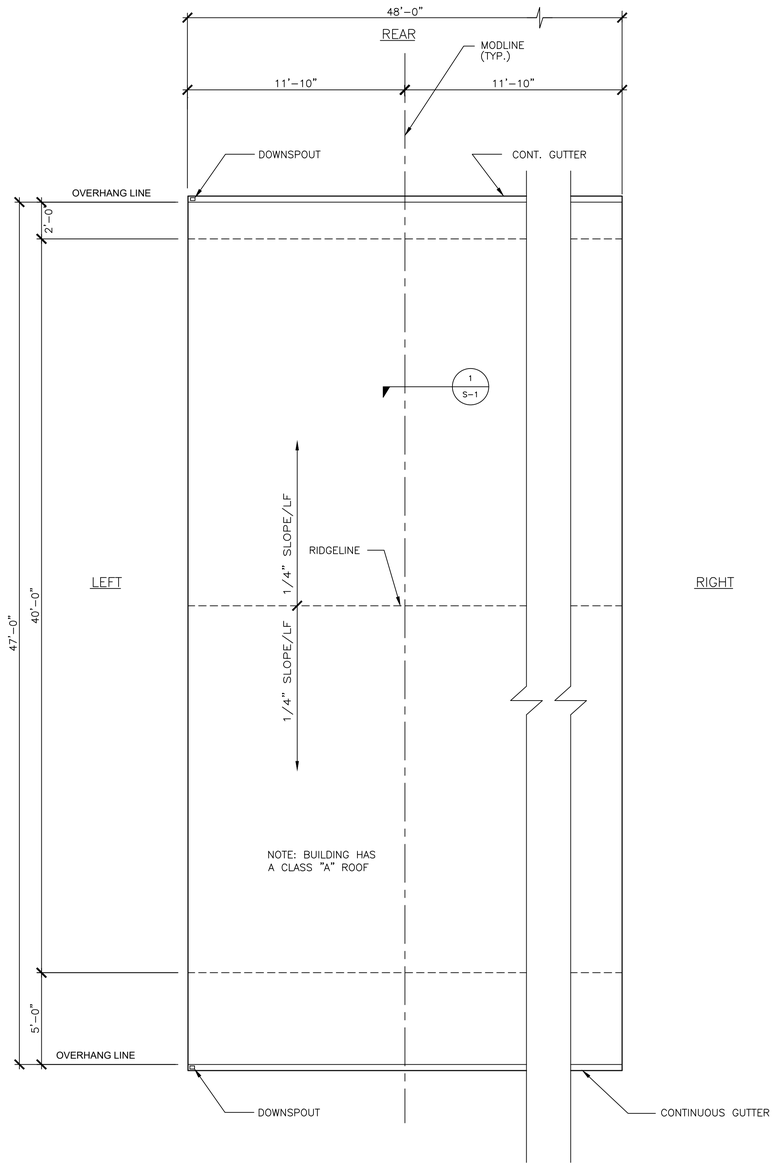
WINDOW, DOOR & FINISH SCHEDULES

DRAWN
CHECKED
DATE NOVEMBER 1, 2021
SCALE
JOB NO.

A–2

OF 12 SHEETS

MOBILE MODULAR UNIVERSAL ARCHITECTURAL MODIFICATIONS SHEET A–3.DWG



ROOF PLAN 26 GA DUAL SLOPE – (48'-0")

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

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REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMS
No.3602
STRUCTURAL
STATE OF CALIFORNIA

Date Signed: June 30, 2022

MOBILE MODULAR MANAGEMENT
11450 MISSION BLVD.
MIRA LOMA, CA 91752

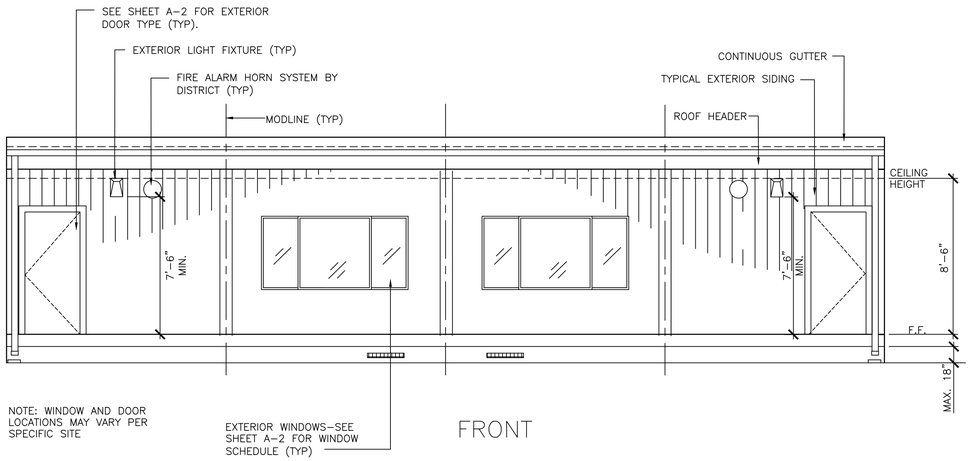
ROOF PLAN

DRAWN
CHECKED
DATE NOVEMBER 1, 2021
SCALE
JOB NO.

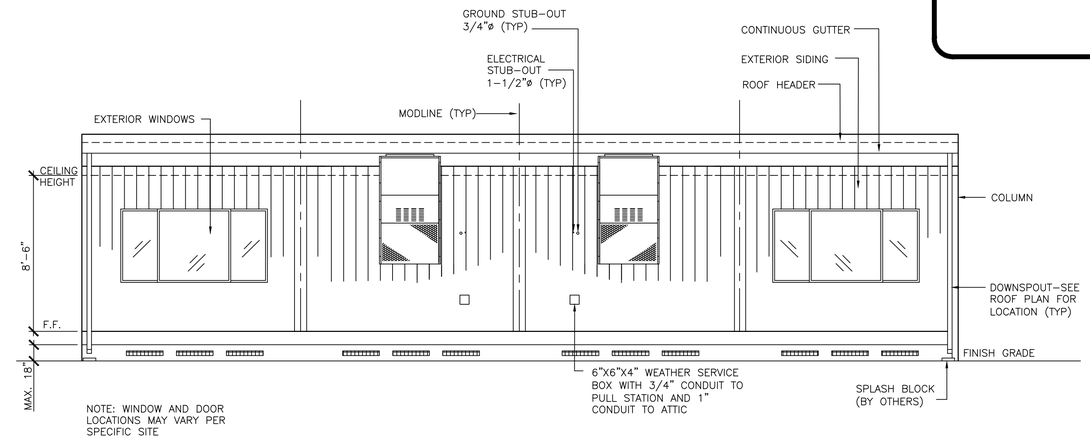
A-3

OF 12 SHEETS

MOBILE MODULAR UNIVERSAL ARCHITECTURAL MODIFICATIONS SHEET A-3.DWG



FRONT



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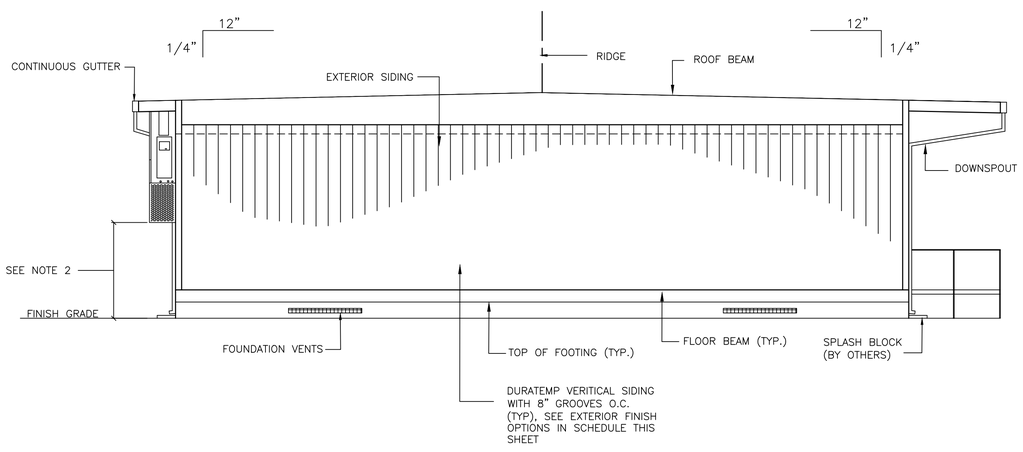
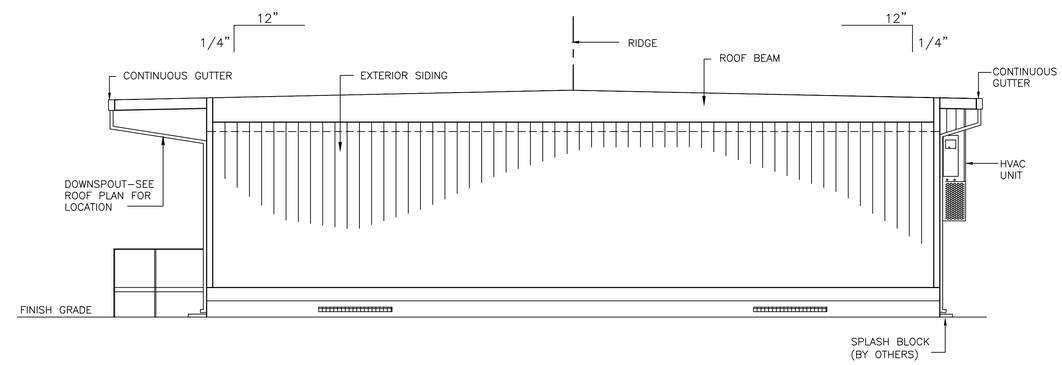


LEFT SIDE



RIGHT SIDE

EXTERIOR FINISH OPTION SCHEDULE

1. L.P. SMART PANEL WITH 8" GROOVES O.C. AND 4"X4" TRIM
2. HARDIPANEL-"SIERRA" FIBROUS CEMENT BOARD WITH 8" GROOVES O.C.
3. HARDIPANEL-"STUCCO" VERITICAL FIBROUS CEMENT BOARD
4. 1/8" ELASTOMERIC ACRYLIC STUCCO OVER 5/16" FIBROUS CEMENT BOARD
5. EXTERIOR GRADE PLYWOOD SUBSTRATE TO ACCEPT STUCCO FINISH BY OTHERS ON SITE

NOTES

1. VERIFY SITE CONDITIONS AND FOUNDATION TYPE PRIOR TO CONSTRUCTION OF RAMPS AND LANDINGS
2. SHOULD THE DIMENSION FROM GRADE TO BOTTOM OF WALL MOUNT HVAC UNIT BE GREATER THAN 27 INCHES, THE SPACE BELOW THE UNIT SHALL BE PROTECTED
3. THERE CAN BE NO SHARP CORNERS OR ABRASIVE SURFACES WITHIN 18" FROM TOP OF GRIPPING SURFACE.
4. FIELD VERIFY: NO TRIM TO REDUCE THE REQUIRED CLEARANCE OF THE HANDRAIL.

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REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
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STATE OF CALIFORNIA

Date Signed: June 30, 2022

APPROVAL – PC ENGINEER OF RECORD

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MIRA LOMA, CA 91752

EXTERIOR ELEVATION
48X40 BLDG.

DRAWN
CHECKED
DATE NOVEMBER 1, 2021
SCALE
JOB NO.

A-4

OF 12 SHEETS

MOBILE MODULAR UNIVERSAL ARCHITECTURAL MODIFICATIONS SHEET A-3.DWG

GENERAL NOTES AND SPECIFICATIONS

SECTION 1A

1. GENERAL:
   A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERA REQUIREMENTS APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH SECTION.
   B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD QBALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS.
   C. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 19, AND 24 CALIFORNIA CODE OF REGULATIONS. NO CHANGES SHALL BE MADE FROM D.S.A. APPROVED DRAWINGS OR SPECIFICATIONS WITHOUT PRIOR WRITTEN APPROVAL OF D.S.A. AND THE DISTRICT ARCHITECT.
2. SCOPE OF WORK:
   A. THE WORK CONSIST OF MANUFACTURING OFF-SITE IN A PLANT, AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDING AS DEFINED HEREIN AND SHOWN AND DETAILED DRAWINGS.
   B. ALL REQUIREMENTS OF TITLE 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (C.C.R.) RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:
   C. GENERAL RESPOSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
   D. INSPECTION IN-PLANT DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION, WELDING, MECHANICAL AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICT.
   E. ON SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY INSTALLATION TO BE BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
   F. OTHER SPECIAL TEST OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT.
3. WORK NOT INCLUDED:
   ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.
   ALL LEVELING, GRADING OR OTHER SITE PREPERATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS, WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
   FIRE ALARM SYSTEM, FIRE EXTINGUISHER, PROGRAM BELL, CLOCK, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
4. WHEELS AND HITCH: (OPTION ONLY)
   SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. ACCESSIBILITY OF SITE:
   THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF THE BUILDING, REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS, ECT. NECESSARY FOR THE MONE-IN OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.
6. GENERAL CONSTRUCTION:
   STRUCTURAL FRAMING:
   EACH MODULE SHALL BE DESIGNED AS A MOMENT FRAME STRUCTURE TO WITHSTAND VERTICAL AND HORIZONTAL LOADS AND COMPLY WITH REQUIREMENTS OF THE 2019 CALIFORNIA BUILDING CODE, THE NECESSARY PROVISIONS ARE INCORPORATED IN THE STRUCTURE TO PERMIT THE RELOCATION OF THE STRUCTURAL FRAME IN SECTIONS IN SECTIONS NOT EXCEEDING 12 FEET IN WIDTH.
   FLOOR:
   THE FLOOR SHALL BE STEEL FRAMED WITH A DESIGN LIVE LOAD OF 50 lbs. PER SQUARE FOOT UNLESS OTHER OTHERWISE NOTED ON THE DRAWINGS.
   INSULATION:
   INSULATIONS @ CEILINGS SHALL BE 6" THICK WITH AN "R" VALUE OF 19. INSULATION @ EXTERIOR WALLS & FLOORS SHALL BE 3 1/2" THICK WITH AN "R" VALUE OF 11. INSULATION SHALL BE FORMALDEHYDE FREE & SHALL COMPLY WITH CBC 7073 (CLASS I = 0-25 FLAME SPREAD) SMOKE DEVELOPMENT DENSITY LESS THAN 450. THE INSULATION SUPPORT MATERIAL SHALL IMPEDE MOVEMENT OF THE INSULATION DURING TRANSPORTATION. THE INSULATION & SUPPORT MATERIAL SHALL BE INTACT UPON DELIVERY TO THE SITE & SHALL COMPLETELY COVER THE FLOOR CAVITY.

SECTION 5A STRUCT. & MISC. STEEL

1. SCOPE OF WORK:
   CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND AS SPECIFIED AND INDICATED ON THE DRAWINGS, SERVICES REQUIRED FOR STRUCTURAL AND MISCELLANEOUS STEEL.
2. MATERAIL:
   A. STRUCTURAL STEEL SHAPES - ASTM A-36, OPEN HEARTH OR ELECTRIC FURNANCE ONLY, ALL REGULAR SHAPES AS DESCRIBED IN AISC CONSTRUCTION MANUAL, UNLESS OTHERWISE NOTED.
   B. COLD FORMED LIGHT GUAGE STEEL - ASTM A-570 GRADE 33, MINIMUM YIELD 33,000 PSI.
   C. STRUCTURAL PIPE - ASTM A-53 MIN. YIELD OF 35,000 PSI. STRUCTURAL TUBING - ASTM A-500 MIN. YIELD OF 46,000 PSI.
   D. BOLT MATERIAL - BOLTS AND NUTS, AMERICAN STANDARD REGULAR, AS DETAILED IN AISC CONSTRUCTION MANUAL, FABRICATED FROM STRUCTURAL QUALITY STEEL, ASTM A-307.
   E. ARC-WELDING ELECTRODES - CLASS E-70 SERIES FOR WELDING A-36 STEEL TO A-36 AND E-60 SERIES FOR WELDING A-570 STEEL TO A-36, CONFORMING TO REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" OF AMERICAN WELDING SOCIETY, LATEST EDITION.
3. WORKMANSHIP:
   A. GENERAL - ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF AISC STANDARD SPECIFICATIONS, TITLES 24 OF THE CALIFORNIA CODE OF REGULATIONS AND THE AMERICAN IRON STEEL STRUCTURAL MEMBERS.
   B. WELDING - ALL WELDING DONE BY SHIELDING ELECTRIC-ARC OR FLUX CORED-ARC PROCESS COMPLYING WITH THE AMERICAN WELDING SOCIETY. WELDING DONE BY QUALIFIED OPERATORS IN ACCORDANCE WITH AWS D1.1
   C. ERECTION - STRUCTURAL STEEL ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATIONS. FIELD CONNECTIONS BOLTED OR WELDING AS INDICATED ON THE DRAWINGS.
   D. HANDRAILS - FABRICATED AS DETAILED, WELDS GROUND SMOOTH.

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   E. NAILS, BOLTS, SCREWS, NUTS, ETC. - FOR EXTERIOR WORK SHALL BE CADIUM PLATED OR GALVANIZED.
   F. SHOP PAINT-
   1. EXPOSED STEEL COATED WITH ONE COAT SHOP COAT.
   2. ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO
   3. APPLICATION OF SHOP COAT. NON-EXPOSED STEEL COATED WITH ONE COAT SHOP COAT.
   G. TEST - PROVIDE MILL CERTIFICATES OR TEST ALL MEMBERS. WELDS SHALL BE INSPECTED AND/OR TESTED PER T-24 SECTION 2231.5

SECTION 6A CARPENTRY

1. SCOPE OF WORK:
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.
2. MATERIALS:
   LUMBER GRADE MARKED IN ACCORDANCE WITH "STANDARD GRADING AND DRESSING RULE NO. 16" OF WEST COAST LUMBER INSPECTION BUREAU OR "GRADING RULES FOR WESTERN LUMBER, 3rd EDITION" OF WESTERN WOOD PRODUCTS ASSOCIATION. PLYWOOD GRADE MARKED IN ACCORDANCE WITH "PRODUCT STANDARD PS 1-95 FOR SOFTWOOD" OF AMERICAN PLYWOOD ASSOCIATION, COMPLYING WITH UBC STANDARD 25-9
   A. HEADERS: HF STUD GRADE OR BETTER.
   B. PLATES: FH STUD GRADE OR BETTER.
   C. BLOCKING: FH STUD GRADE OR BETTER
   D. SILLS AND LUMBER IN CONTACT WITH CONCRETE, MASONRY OR EARTH-HEMLOCK FIR PRESSURE TREATED WITH WOLMAN SALTS, TANALITH U OR CHROMATE COPPER ARSENIC; GRADE - 2x4; NO. 2 GRADE - 2x6, CUT ENDS DIPPED IN PRESERVATIVE (CUPONAL).
   E. PLYWOOD ROOF DECKING: APA C-D GRADE, GROUP 1, EXPOSURE 1 WITH EXTERIOR GLUE, ON OVERHANGS, C-C PLUGGED AND TOUCH SANDED.
   F. PLYWOOD FLOOR DECKING: APA STURD-I-FLOOR 48" O.C. 1-1/8" TONGUE AND GROOVE FLOOR SHEATHING.
   G. EXTERIOR SIDING/SHEATHING - APA TYPE 303, EXTERIOR, M.D.O. 8" O.C., SIDING, SHEATHING 1/2" STRUCTURAL #1 OSB.
   H. BUILDING TRIM: 4/4 L.P. SMART TRIM
   I. DOOR/WINDOW TRIM: 4/4 L.P. SMART TRIM
3. WORKMANSHIP:
   A. FRAMIMG:
   SECURLY NAILED BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL, PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITHN ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.
   B. NAILING:
   IN ACCORDANCE WITH TITLE 24 C.C.R. - TABLE 23A-11-B-1. NAILS SHALL BE CORROSION RESISTANT BOX NAILS.
   C. EXTERIOR WALLS:
   FACTORY FABRICATED CAULKING PROVIDED BETWEEN PERIMETER OF WALLS AND STRUCTURAL MEMBERS PROVIDING WEATHERPROOF AND WATERTIGHT SEAL. NECESSARY CLOSURES, SEALS, FLASHING PLACED AT TOP AND BASE SUPPORT OF PANELS AND AROUND OPENINGS.
   D. MACHINE APPLIED NAILING:
   SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY D.S.A. FIELD INSPECTORS AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUES SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8" IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL DEEMED UNSATISFACTORY.
   E. TRIM SEALED AT ALL EDGES, SEALED PAINTED TO MATCH TRIM OR SIDING.
   F. RETIGHTEN ALL BOLTS BEFORE CLOSING IN.
   G. THW DESIGN MOISTURE CONTENT OF LUMBER IS 19% OR LESS BEFORE FABRICATION, OTHER REVISION THRU CHANGE ORDER WILL BE REQUIRED.

SECTION 7B SHEET METAL

1. SCOPE OF WORK:
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL INDICATED SHEET METAL.
2. MATERIALS:
   A. SHEET METAL:
   STEEL SHEETS HOT DIP GALVANIZED WITH 1.25 OZ. PER SQUARE FOOT ZINC COATED CONFORMING TO ASTM A123. MINIMUM 26 GA.
   B. SOLDER:
   OF STANDARD BRAND, GRADE A OF EQUAL PARTS LEAD & TIN ASTM B32.
   C. FLUX:
   ZINC SATURATED MURATIC ACID.
3. WORKMANSHIP:
   SHEET METAL ACCURATLEY FORMED TO DOMENSIONS AND SHAPES DETAILED WITH TRUE STRAIGHT LINES, CORNERS AND ALGLES. FLASHING INSTALLED IN LONGEST LENGTHS POSSIBLE. EXTERIOR WORK FORMED, FABRICATED & INSTALLED SO THAT IT ADEQUATELY PROVIDES FOR EXPANSION AND CONTRACTION IN THE COMPLETED WORK AND FINISHES WATER AND WEATHER TIGHT.

SECTION 7J SEALANT

1. SCOPE OF WORK:
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO SEAL THE BUILDINGS.
2. MATERIALS:
   "VULKEM" SEALANT, POLYURETHANE, MANUFACTURED BY MAMECO INTERNATIONAL OR APPROVED EQUAL.
   SEALANT APPLIED TO DRY CLEAN SURFACES, WHEREVER INDICATED ON DETAILS AND AS NEEDED TO MAKE BUILDING WATERTIGHT, IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

SECTION 8B HOLLOW METAL DOORS & FRAMES

1. SCOPE OF WORK:
   CONTRACTOR SHALL PROVIDE ALL LABOR MATERIALS AND SERVICES TO INSTALL HOLLOW METAL DOORS & FRAMES.
2. MATERIALS:
   A. DOORS:
   TYPE L FULL FLUSH MANUFACTURED BY AMWELD, CURRIES OR REPUBLIC MANUFACTURING COMPANY OR APPROVED EQUAL, 18 GA. 1-3/4" THICK.
   B. FRAMES:
   16 GA. COLD ROLLED 2" FACES.

SECTION 8D FINISH HARDWARE

1. SCOPE OF WORK:
   CONTRACTOR SHALL SUPPLY AND INSTALL HARDWARE AS SPECIFIED & AS REQUIRED
2. DOOR SHEDULE; SEE SHEET A-2
3. SPECIAL REQUIREMENTS:
   A. CLOSURE FOR EXTERIOR DOORS SHALL BE SET FOR A MAX. OPENING PRESSURE OF 5lbs.
   B. DEAD BOLT LOCKS ARE NOT ALLOWED IN SCHOOL FACILITIES.
   C. HARDWARE SHALL BE CENTERED BETWEEN 30" & 44" ABOVE FINISH FLOOR.
   D. EXIT DOORS SHALL BE OPENABLE FROM INSIDE WITHOUT ANY EFFORT, SPECIAL TOOL, OR KNOWLEDGE.
   E. PANIC HARWARE SHOULD BE MOUNTED ABOVE 36" TO 44" SO AS TO NOT REDUCE THE REQUIRED EXIT WIDTH.

SECTION 9E PAINTING

1. SCOPE OF WORK:
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS & SERVICES TO PAINT BUILDINGS, ALL EXPOSED SURFACES OF BUILDING AND RAMP SHALL BE PAINTED EXCEPT ALUMINUM WINDOW FRAMES AND THRESHOLDS.
2. MATERIALS:
   A. EXTERIOR WOOD:
   42-1 PRIMER, W203 "DUNN EDWARDS"
   B. INTERIOR TRIM:
   W7500 "DUNN EDWARDS"
   C. METAL:
   9 SERIES "DUNN EDWARDS"

WORKMANSHIP:
   A. EXTERIOR:
   WOOD SIDING, TRIM & SKIRTING - APPLY TWO COATS OF EXTERIOR FLAT ACRYLIC PAINT SPRAYED ON.
   B. INTERIOR
   TRIM: NOT RECOATED SHALL BE PAINTED WITH TWO COATS OF ALKYD FINISH COAT OVER SHOP COAT.
   C. RAMP:
   ONE COAT OF NON-SKID SURFACING.

SECTION 13F SITE ASSEMBLY

1. SCOPE OF WORK:
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE & TO COMPLETE THE ASSEMBLY AT THE SITE.
   THE CONDITION OT THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.
2. ASSEMBLY OF ELEMENTS:
   A. IN A LOCATION AS DETERMINED BY THE SCHOOL DISTRICT, THE CONTRACTOR SHALL PLACE CONCRETE LEVELING STRIPS OR OTHER SUITABLE SUPPORTS AS DETAILED ON THE DRAWING.
   B. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING.
   C. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS ON THE DRAWINGS. FLASHING, TRIM & OTHER LOOSE ITEMS SHALL BE INSTALLED PER DETAILS ON THE DRAWINGS.

SECTION 15A MECHANICAL

1. SCOPE OF WORK:
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS & SERVICES TO INSTALL THE AIR CONDITION SYSTEM AS SHOWN ON THE DRAWINGS INCLUDING A/C UNITS & ACCESSORIES, REMOTE THERMOSTAT, GRILLS & POWER WIRING COMPLETE TO LOAD CENTER. CONTRACTOR SHALL INSTRUCT OWNER'S OPERATORS ON OPERATION AND MAINTENANCE OF A/C SYSTEM.
2. EQUIPMENT; SEE A/C INFORMATION SCHEDULE FOR SIZE & TYPE
3. WORKMANSHIP:
   UNITS SHALL BE INSTALLED COMPLETE AND OPERATING WITH ALL ACCESSORIES IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

SECTION 16A ELECTRICAL

1. SCOPE OF WORK:
   CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS & SERVICES FOR ELECTRICAL INSTALLATION COMPLETE WITH ASSOCIATED EQUIPMENT AND FIXTURES IN OPERATING CONDITION READY FOR USE. THE WORK INCLUDES: LIGHT & POWER SYSTEMS, LIGHTING FIXTURES COMPLETE WITH LAMPS, CONNECTIONS & DISCONNECTS TO A/C EQUIPMENT.
2. MATERIALS; ALL NEW COMPLYING WITH REQUIREMENTS OF CBC & NFPA
   A. ELECTRIC METALLIC TUBING:
   COUPLINGS & FLEX CONDUIT GALVANIZED OR SHEDRARDIZED.
   B. PANELBOARDS:
   FLUSH MOUNTED WITH HINGED DOORS & INDEXED CARD HOLDERS.
   C. CONDUCTORS:
   COPPER, INSULATED FOR 600 VOLTS, TYPE THHN FOR SIZES #12 TO #6, TYPE THW FOR LARGER SIZES MINIMUM SIZE #12.
   D. RECEPTACLE:
   PED SPEC UL, SPECIFICATION GRADE #CRB 5262. PASS & SEYMOUR
   E. CLOCK RECEPTACLE:
   PASS & SEYMOUR, #S3713-I RECESSED W/IVORY WALL PLATE.
   F. SWITCHES:
   PASS & SEYMOUR, PS15AC1, IVORY, SPEC GRADE 15 AMP, 1 POLE
   G. LIGHTING FIXTURES:
   2'x4' FLUORESCENT DROP IN THE TYPE, FIXTURES WITH 34 WATT LAMPS & ENERGY SAVING BALLAST.
3. WORKMANSHIP:
   MATERIAL & EQUIPMENT INSTALLED IN A SECURE, NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH CODE REQUIREMENTS, PANEL BOARD CARDS FILLED OUT. CONDUIT AND CABLE INSTALLED IN WALL & CEILING SPACES WORK PIERCING WATERPROOFED AREAS FLASHED & SEALED TO A WATERTIGHT CONDITION.

ENVELOPE MANDATORY MEASURES

1. INSTALLED INSULATING MATERIAL SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL, TITLE 20, CHAPTER 4, ARTICLE 3.
2. ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF SECTIONS 2602 AND 707 OF TITLE 24, PART 2.
3. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
4. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES NOT EXCEEDING THOSE SHOWN IN TABLE NUMBER 1-E. OF THE STANDARDS. MANUFACTURED FENESTRATION PRODUCTS MUST BE LABELED FOR U-VALUE ACCORDING TO NFRC PROCEDURES.

REGISTERED PROFESSIONAL ENGINEER
JAMES T. SIMPSON
No.3602
STRUCTURAL
STATE OF CALIFORNIA

Date Signed: June 30, 2022

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC: A
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

MOBILE MODULAR MANAGEMENT
11450 MISSION BLVD.
MIRA LOMA, CA 91752

GENERAL SPECIFICATIONS

APPROVAL - PC ENGINEER OF RECORD

EXL
STRUCTURAL ENGINEERS, INC.
4091 RIVERSIDE DRIVE, SUITE 114
CHINO, CALIFORNIA 91710

MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA
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(909) 613-0234
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Sheet No	Description	Dated	Revised

DRAWN
CHECKED
DATE NOVEMBER 1, 2021
SCALE
JOB NO.

A-5

OF 12 SHEETS

MOBILE MODULAR UNIVERSAL ARCHITECTURAL MODIFICATIONS SHEET A-3.DWG

SYMBOL	DESCRIPTION
	2'x4' FLUORESCENT RECESSED FIXTURE, W/DIFFUSED PRISMATIC LENS W/2 BALLAST(S) & (3) T8 TUBES
	CEILING MOUNTED EXHAUST FAN 100 CFM
$	SINGLE SWITCH 20 AMP IN SINGLE GANG BOX
$$$	TRIPLE SWITCH 20 AMP IN TRIPLE GANG BOX
	DUPLEX RECEPT – 20 AMP
WP GFI	DEDICATED DUPLEX RECEPT – 20 AMP W/GROUND FAULT INTERRUPTER AND CLEAR IN-USF COVER
	EXTERIOR MOUNTED LED LIGHT FIXTURE, MERU ACEM DB OR EQUAL, 17 WATTS / EMERGENCY BATTERY BACK UP
	THERMOSTAT-PROGRAMMABLE, "BRAEBURN" #2200 (+48")
J	J-BOX MOUNTED IN CEILING FOR LIGHT FIXTURES, RUN WIRE TO PANEL BOX
F	WATER PROOF J-BOX AT FLOOR LEVEL W/ 3/4" C.O. STUBBED TO ATTIC
+80" S	4S J-BOX W/SINGLE GANG RING FOR FUTURE FIRE ALARM INTERIOR SPEAKER/STROBE W/3/4" CONDUIT STUBBED ABOVE CEILING, NO WIRE, BLANK COVER PLATE (DEVICES, WIRING & INSTALLATION BY OTHERS)
+80" H	4S J-BOX W/SINGLE GANG RING FOR FUTURE FIRE ALARM EXTERIOR SPEAKER W/3/4" CONDUIT STUBBED ABOVE CEILING, NO WIRE, WEATHERPROOF BLANK COVER PLATE (DEVICES, WIRING & INSTALLATION BY OTHERS)
	CLOCK MOUNTED 6" BELOW CEILING LINE
D	DISCONNECT SWITCH BUILT INTO A/C
SD	EMPTY 4S J-BOX W/SINGLE GANG RING FOR FIRE ALARM SMOKE DETECTOR MOUNTED IN CEILING, NO WIRE, BLANK COVER
HD	EMPTY 4S J-BOX W/SINGLE GANG RING FOR FIRE ALARM HEAT DETECTOR MOUNTED IN CEILING, NO WIRE, BLANK COVER
H.W.	INSTA HOT WATER HEATER 120V. (OPTIONAL)
EXIT	WALL MOUNTED ILLUMINATED EXIT SIGN WITH EMERGENCY LIGHTS

NOTE:
1. LOCATE ALL RECEPTACLES & J-BOX'S @ 18" TO CENTERLINE OF BOX AFF
2. LOCATE ALL SWITCHES @ 48" TO TOP OF BOX AFF
3. LOCATE ALL T-STATS @ 48" TO TOP OF BOX AFF
4. WHEN MULTIPLE GFI RECEPTACLES ARE SHOWN ON THE SAME CIRCUIT INSTALL W/ FEED THROUGH GFI RECEPT & PROTECT DOWNSTREAM RECEPTACLE OFF OF FEED THROUGH GFI & LABEL PROPERLY
5. LIGHTING TO BE INSTALLED PER DETAIL #4 OF MMMC SPECS, TITLE 24, PARTS 1 & 2 OF THE CCR & TO IR-47-3 & 47-4 OF THE DSA INTEPRETIVE MANUAL
6. THE INSTALLATION OF ALL LIGHTS & CEILINGS TO BE INSTALLED PER MMM SPECS & PARTS 1 & 2 OF THE CCR & TO #IR-47-3 & #IR-47-4 OF THE DSA INTEPRETIVE MANUAL
7. ALL SUPPLY REGISTERS TO BE POSITIVELY ATTACHED TO THE ROOF RAFTER (2 CORNERS PER REGISTER MIN.)
8. FIRE ALARM SYSTEM IS SITE SPECIFIC AND IS APPROVED AS A SEPARATE DEFERRED APPROVAL.

ELECTRICAL PANEL SCHEDULE: A

VOLTS: 120/240 V | MOUNTING: INTERIOR | VOLTS: 1Ø
MAIN: 100 | SUB: | WIRE: 3

LOCATION	WATTS Aø	WATTS Bø	LTG	REC	MISC	BRK	CIRC	A	B	CIRC	BRK	MISC	REC	LGT	WATTS Aø	WATTS Bø	LOCATION
RECP.	720			4		20	1			2	20			14	896		LIGHT/ EXIT/PORCH
RECP.		360		2		20	3			4	20		1			360	FIRE ALARM (*see note)
HVAC	5244				1	70	5			6							
HVAC		5244				70	7			8							
							9			10							
							11			12							
							13			14							
							15			16							
WATTS/PHASE A= 6,860															WATTS/PHASE B= 5,964		
TOTAL WATTS= 16,144							AMPS= 67.26								LCL= 3320		

ELECTRICAL PANEL SCHEDULE: B

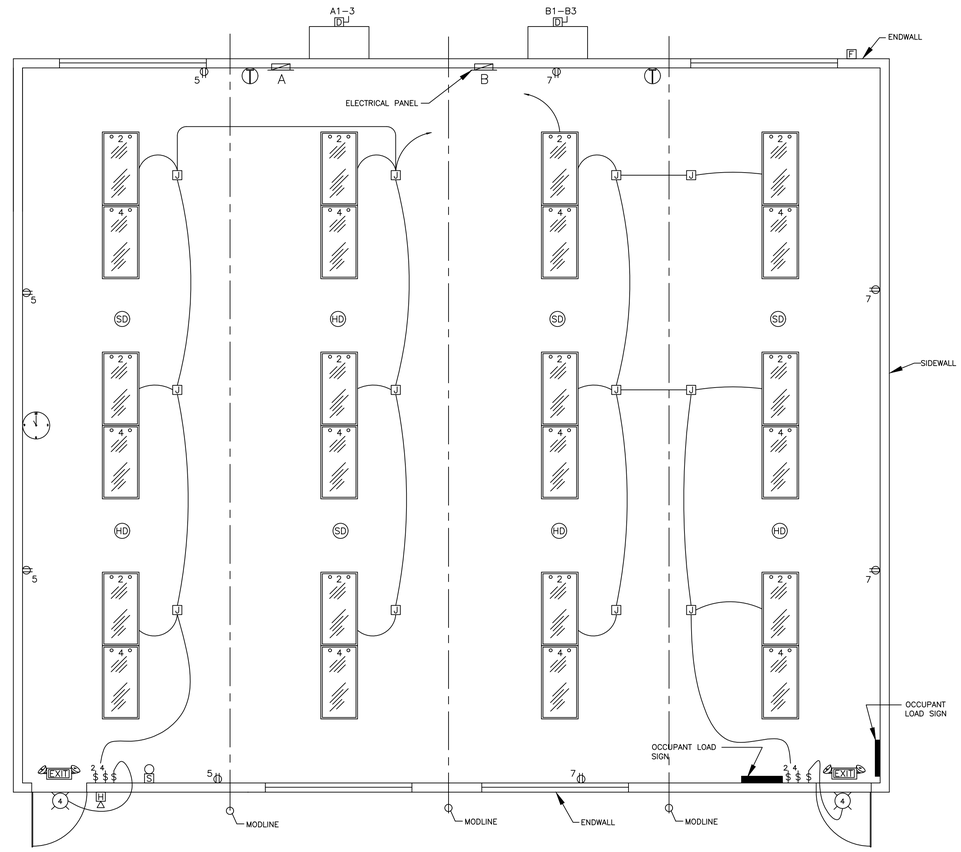
VOLTS: 120/240 V | MOUNTING: INTERIOR | VOLTS: 1Ø
MAIN: 100 | SUB: | WIRE: 3

LOCATION	WATTS Aø	WATTS Bø	LTG	REC	MISC	BRK	CIRC	A	B	CIRC	BRK	MISC	REC	LGT	WATTS Aø	WATTS Bø	LOCATION
RECP.	540			3		20	1			2	20			14	896		LIGHT/ EXIT/PORCH
RECP.		360		2		20	3			4	20		1			360	FIRE ALARM (*see note)
HVAC	5244				1	70	5			6							
HVAC		5244				70	7			8							
							9			10							
							11			12							
							13			14							
							15			16							
WATTS/PHASE A= 6,680															WATTS/PHASE B= 5,964		
TOTAL WATTS= 15,964							AMPS= 66.51								LCL= 3320		

ELECTRICAL PANEL

NOTE: UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.

NOTE:
ALL THE STOCKPILES LISTED IN THIS PC WERE DESIGNED FOR MAXIMUM SEISMIC LOADS IN CA ACCORDING TO THE CODES UNDER WHICH THEY WERE DESIGNED (1988 – 2007 CBC), AND CAN BE PLACED ANYWHERE IN THE STATE FOR SEISMIC CONSIDERATIONS PER DSA POLICY



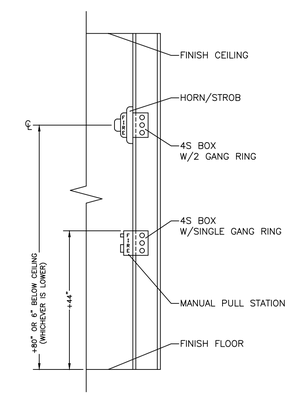
PROVIDE EMERGENCY EGRESS ILLUMINATION TO A SAFE DISPERSAL AREA PER DSA IR 10-1.
COORDINATE EMERGENCY EGRESS ILLUMINATION WITH PROJECT SPECIFIC SITE PLANS.

PHOTOCELL

ELECTRICAL PLAN

1/4" = 1'-0"

Date Signed: June 30, 2022



(A) STANDARD FIRE ALARM HEIGHTS

NOTE:
ALL EXISTING F.A. BOXES TO REMAIN WHERE LOCATED

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MOBILE MODULAR MANAGEMENT
11450 MISSION BLVD.
MIRA LOMA, CA 91752

MODIFICATION PLAN FOR
48 X 40 BUILDINGS

DRAWN
CHECKED
DATE
NOVEMBER 1, 2021
SCALE
JOB NO.

E – 1

OF 12 SHEETS

MOBILE MODULAR MANAGEMENT UNIVERSAL ARCHITECTURAL MODIFICATIONS SHEET_E-1.DWG

LEGEND

- 12"x12" SUPPLY AIR GRILLE W/4-WAY CURVED BLADE DIFFUSER "AIRMATE" #204M 12"x12" W/BACK BOX & COLLAR
- 24"x24" RETURN AIR GRILLE PERF. FACE
- THERMOSTAT-PROGRAMMABLE, "BRAEBURN" #2200

MECHANICAL NOTES

MECHANICAL EQUIPMENT INSTALLATION IN OR ON THIS BUILDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE U.M.C. UNLESS OTHERWISE SPECIFICALLY EXEMPTED OR REQUIRED BY APPROVED STATE REGULATORY AGENCIES.

MECHANICAL AND GRAVITY VENTILATION REQUIREMENTS SHALL COMPLY WITH STATE OF CALIFORNIA CCR TITLE 24, PART 6, SECTION T-20.

RECTANGULAR DUCT SHALL BE 'FIBERGLASS' TYPE LP OR EQUAL U.L. LISTED WITH 1" THICK INSULATED DUCT BOARD WITH JOINTS SEALED WITH DUCTBOARD TAPE.

ROUND FLEX DUCT SHALL BE U.L. LISTED CLASS 1, STANDARD 181 - FACTORY MADE AIR DUCTS AND AIR CONNECTORS. THE MINIMUM THERMAL PERFORMANCE SHALL BE AT 4.2 R-VALUE, AND MEASURED IN ACCORDANCE TO ASTM C 518 OR ASTM C 177 AT 75DEG F MEAN TEMPERATURE. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURES INSTALLATION INSTRUCTIONS

THERMOSTAT PROGRAMMING TO BE PERFORMED AND BATTERY TO BE PROVIDED BY OTHERS ON SITE.

ALL HVAC EQUIPMENT LEAVES FACTORY WIRED FOR 240 VOLT OPERATION THE ACCEPTABLE OPERATING RANGE FOR THE 240V & 208V TAPS ARE:

TAP	RANGE
240	253-216
208	220-187

AIR FILTERS IN HVAC UNITS OR SYSTEMS ARE TO BE CHANGED EVERY 30 DAYS BY OTHERS ON SITE.

TEST AND BALANCE OF HVAC SYSTEM TO BE PROVIDED AND PERFORMED BY OTHERS ON SITE.

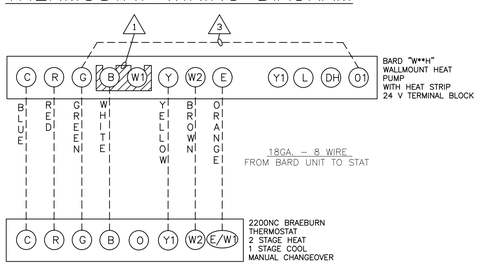
SET UP AND TESTING OF ECONOMIZERS, AND CLASSROOM VENTILATORS TO BE PROVIDED AND PERFORMED BY OTHERS ON SITE.

NOTE: HVAC units operated on generator power must be protected from voltage fluctuation, or voltage variance. Improper voltage may cause short and long range damage to HVAC unit components and may void HVAC unit warranties.

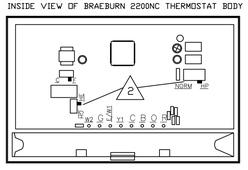
HP 1

4.0 Ton Heat Pump, Bard, R410a, Step Capacity Wallmount,
45,000 Nom Btu Cooling Capacity - 14.5 IPLV
41,000 Nom Btu Heating Capacity from Compressor.
Additional 13,562 Nom Btu Heating Capacity from Heat Strips @ 240V.
MCA 57, MOCP 60, Min. Wire Size #6
1500 CFM @ 0-.5 Esp, Unit Weight 700 lbs.
230 Volt, 60 Cycle, Single Phase
Recuires use of CPB5A-4 Top Discharge Plenum

THERMOSTAT WIRING DIAGRAM

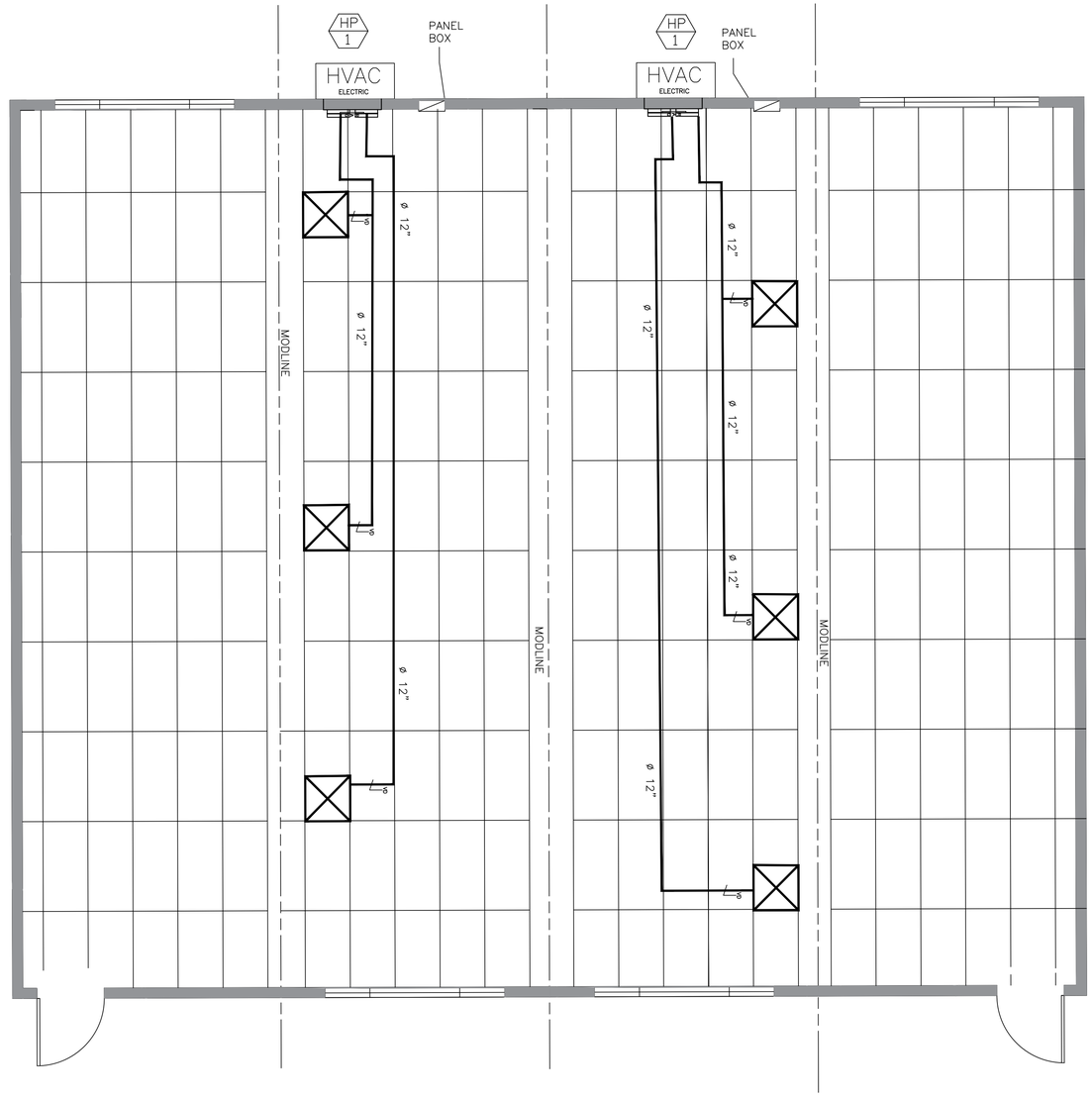


INSIDE VIEW OF BRAEBURN 2200NC THERMOSTAT BODY



NOTES:

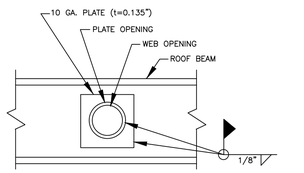
1. BARD FACTORY INSTALLED JUMPER PLATE TO ENERGIZE ALL HEAT STRIPS FROM SINGLE STAGE HEATING STAT
2. SET ELEC./GAS SWITCH TO "HE" ON THIS APPLICATION. SET NORM/HP SWITCH TO "HP" ON THIS APPLICATION.
3. FIELD INSTALLED JUMPER (G TO 01) BY UNIT INSTALLER TO ENERGIZE VARIOUS BARD VENTILATION OPTIONS



MECHANICAL PLAN

1/4" = 1'-0"

NOTE: UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBERS SHALL BE CUT, DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.



WEB OPENING	PLATE SIZE	PLATE OPENING
6"ø	12"X12"	6 1/4"ø
8"ø	14"X14"	8 1/4"ø
10"ø	16"X16"	10 1/4"ø

24" MIN. SPACING ℄ OF HOLE TO ℄ OF HOLE.

OPTIONAL BEAM PENETRATION

NTS

1 / M-1

NOTE:
ALL THE STOCKPILES LISTED IN THIS PC WERE DESIGNED FOR MAXIMUM SEISMIC LOADS IN CA ACCORDING TO THE CODES UNDER WHICH THEY WERE DESIGNED (1988 - 2007 CBC), AND CAN BE PLACED ANYWHERE IN THE STATE FOR SEISMIC CONSIDERATIONS PER DSA POLICY

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REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: June 30, 2022

MOBILE MODULAR MANAGEMENT
11450 MISSION BLVD.
MIRA LOMA, CA 91752

MODIFICATION PLAN FOR 48 X 40 BUILDINGS

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OF 12 SHEETS

MOBILE MODULAR MANAGEMENT UNIVERSAL ARCHITECTURAL MODIFICATIONS SHEET_M-1.DWG

mobile modular

11450 MISSION BLVD.
MIRA LOMA, CA 91752

DSA FOUNDATION PLANS

FOR EXISTING STOCKPILE BUILDINGS

(BASED ON PC 04 – 119396)

WITH OPTIONAL S_s = 2.183 AND S_s = 3.08

NOTE: SEE SHEET F–1 FOR FOUNDATION PC ONLY LIMITATIONS

TITLE 24 CODES:

2019 California Administrative Code (CAC)..... (Part 1, Title 24, CCR)

2019 California Building Code (CBC), Volumes 1 and 2 ..... (Part 2, Title 24, CCR)

(2018 International Building Code with 2019 California amendments)

2019 California Electrical Code ..... (Part 3, Title 24, CCR)

(2017 National Electrical Code with 2019 California amendments)

2019 California Mechanical Code (CMC)..... (Part 4, Title 24, CCR)

(2018 Uniform Mechanical Code with 2019 California amendments)

2019 California Plumbing Code (CPC) ..... (Part 5, Title 24, CCR)

(2018 Uniform Plumbing Code with 2019 California amendments)

2019 California Energy Code ..... (Part 6, Title 24, CCR)

2019 California Fire Code (CFC) ..... (Part 9, Title 24, CCR)

(2018 International Fire Code with 2019 California Amendments)

2019 California Green Building Standards Code.....(Part 11, Title 24, CCR)

2019 California Referenced Standards Code.....(Part 12, Title 24, CCR)

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

2019 CBC, Chapter 35

2019 CFC, Chapter 80

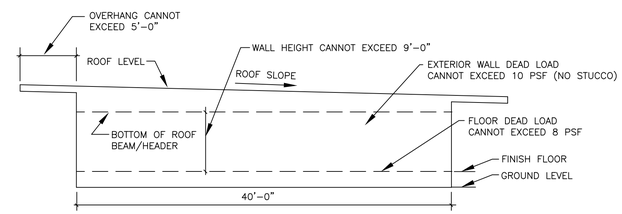
L

FOUNDATION PC ONLY LIMITATIONS

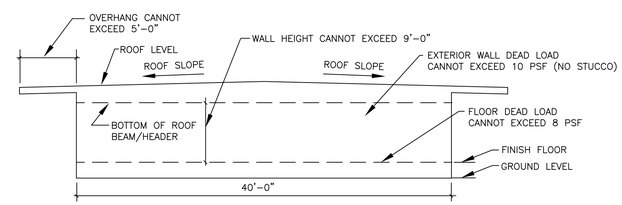
THIS WOOD FOUNDATION ONLY PC HAS BEEN DESIGNED TO SUPPORT THE SUPERSTRUCTURE FOR THE RELOCATABLE BUILDINGS LISTED ON SHEET F–2 OF THESE DRAWINGS. THE DESIGN CALCULATIONS HAVE BEEN BASED ON THE FOLLOWING:

- A ROOF OVERHANG OF 5 FEET MAX
- A WALL HEIGHT OF 9 FEET MAX (FROM FINISH FLOOR IN BUILDING TO BOTTOM OF STEEL ROOF BEAMS/HEADERS)
- WALL DEAD LOAD OF 10 PSF (NO STUCCO)
- FLOOR DEAD LOAD OF 8 PSF
- SEE SEISMIC DESIGN DATA, SHEET F–1, FOR S_{DS} LIMITATIONS FOR SITE.

THE TYPICAL ELEVATIONS BELOW ARE TO CLARIFY THESE LIMITATIONS. DOCUMENTATION SHALL BE PROVIDED BY THE ARCHITECT OR ENGINEER IN GENERAL RESPONSIBLE CHARGE, WHICH NEEDS TO BE REVIEWED AND APPROVED BY THE DSA STRUCTURAL PLAN REVIEWER.



SINGLE SLOPE BUILDING



DUAL SLOPE BUILDING

SHEET INDEX

OPTIONS	SHEET TITLE	SHEET NUMBER
COVER SHEET	GENERAL NOTES; APPLICABLE CODES; BUILDING DATA; WIND DESIGN DATA, EARTHQUAKE DESIGN DATA	F-1
ALL	DSA A NUMBER LISTING MATRIX	F-2
BUILDING SIZE		
24x40	☐ 50 PSF + 20 PSF (Ss 2.183)	F-3
	☐50 PSF (Ss 2.183)	F-3
	☐ 50 PSF + 20 PSF (Ss 3.08)	F-3A
	☐50 PSF (Ss 3.08)	F-3A
	☐ 100 PSF (Ss 2.183)	F-3B
	☐ 125 PSF (Ss 2.183)	F-3B
	☐ 100 PSF (Ss 3.08)	F-3C
	☐ 125 PSF (Ss 3.08)	F-3C
36X40	☐ 50 PSF + 20 PSF (Ss 2.183)	F-4
	☐50 PSF (Ss 2.183)	F-4
	☐ 50 PSF + 20 PSF (Ss 3.08)	F-4A
	☐50 PSF (Ss 3.08)	F-4A
	☐ 100 PSF (Ss 2.183)	F-4B
	☐ 125 PSF (Ss 2.183)	F-4B
	☐ 100 PSF (Ss 3.08)	F-4C
	☐ 125 PSF (Ss 3.08)	F-4C
48X40	☐ 50 PSF + 20 PSF (Ss 2.183)	F-5
	☐50 PSF (Ss 2.183)	F-5
	☒ 50 PSF + 20 PSF (Ss 3.08)	F-5A
	☐50 PSF (Ss 3.08)	F-5A
	☐ 100 PSF (Ss 2.183)	F-5B
	☐ 125 PSF (Ss 2.183)	F-5B
	☐ 100 PSF (Ss 3.08)	F-5C
	☐ 125 PSF (Ss 3.08)	F-5C
ALL	REFERENCE DETAILS	F-6
ALL	DSA FORM 103	F-7
ALL	GENERAL SPECIFICATIONS	F-7A
ALL	ADJACENT BLDGS DETAILS	F-8
ALL	ADJACENT BLDGS DETAILS	F-9

DESIGN DATA			
NUMBER OF STORIES:	1-STORY		
OCCUPANCY:	☒ E-1	☐ E-2	☐ E-3
TYPE OF CONSTRUCTION:	VB		
FLOOR LIVE LOAD:	☐ 50 PSF	☒ 50 PSF + 20 PSF PARTITION LOAD	
FLOOR LIVE LOAD:	☒ 100 PSF	☐ 125 PSF	
ROOF LIVE LOAD:	■ 20 PSF (PROJECT IS NOT LOCATED IN A SNOW LOAD AREA		
BUILDING AREA:	☐ 24'X40' (960 S.F.)		
	☐ 36'X40' (1,440 S.F.)		
	☒ 48'X40' (1,920 S.F.)		
ALLOWABLE BUILDING AREA (MAX):	9,500 S.F.		
FOUNDATION:	■ WOOD	■ WAIVER OF DURABILITY	■ NON-PERMANENT FOUNDATION

WIND DESIGN DATA	SECTION 1603.A.1.4	
1. ULTIMATE WIND SPEED .3 SEC GUST (MPH):	110	
2. RISK CATEGORY:	II	
3.WIND EXPOSURE:	"C"	
4. APPLICABLE INTERNAL PRESSURE COEFFICIENT:	+ or - 0.18	
	Kzt = 1.0	
EARTHQUAKE DESIGN DATA	SECTION 1603.A.1.5	
1. SEISMIC IMPORTANCE FACTOR:	1	
2. MAPPED SPECTRAL RESPONSE:		
OPTION Ss:	3.08	2.183
Ss	3.08	2.183
S1	1.389	1.389
3. SITE CLASS	D	
4. SPECTRAL RESPONSE COEFFICIENTS:		
OPTION Ss:	3.08	2.183
SDS	2.464	1.476
SD1	1.574	1.574
5. SEISMIC DESIGN CATEGORY:	E	
6. BASIC SEISMIC-FORCE-RESISTANCE-SYSTEM	☐ LIGHT MODULAR STEEL MOMENT FRAME	
7. DESIGN BASE SHEAR:		
OPTION	3.08	2.183
~~24'X40'~~	~~16,210#~~	~~11,480#~~
~~36'X40'~~	~~24,310#~~	~~17,210#~~
48'X40'	32,420#	22,950#
8. SEISMIC RESPONSE COEFFICIENT (Cs)		
OPTION	3.08	2.183
Cs	0.493	0.349
9. RESPONSE MODIFICATION FACTOR (R)	3.5	
10. ANALYSIS PROCEDURE USED:	EQUIVALENT LATERAL FORCE	
	NO HORIZONTAL OR VERTICAL IRREGULARITIES PRESENT	
11. FLOOD DESIGN DATA:	PROJECT IS NOT LOCATED IN FLOOD ZONE	

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PC 04–119396

COVER SHEET

SITE SPECIFIC APPROVAL	DSA PC STAMP	APPROVAL – PC ENGINEER OF RECORD
	PRE–CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED	REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA Date Signed: September 24, 2020

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OF 19 SHEETS

MOBILE MODULAR MIRA LOMA PC 113193 SHEET_ F–1.DWG

APPROVED A NUMBERS APPLICABLE TO THIS PC PLAN

MANUFACTURER OF MODULAR BUILDING	DSA A NUMBER OF MODULAR BUILDING	BASED ON PC	YEAR OF APPROVAL OF MODULAR BUILDING	MODULAR BUILDING SIZE	DESIGN FLOOR LIVE LOAD
MB	A04106168	PC 04–104778	2004	48 X 40	50
MB	A04106292	PC 04–104778	2004	48 X 40	50
MB	A04106743	PC 04–104778	2005	24 X 40	50
MB	A04107176	PC 04–104778	2005	48 X 40	50
MB	A04107310	PC 04–104778	2006	24 X 40	50
MB	A101926	04–101244	2000	36 X 40	50
MB	A52938	PC57	1990	24 X 40	50
MB	A04103266	04–101244	2001	48 X 40	50
MB	A04107251	04–104778	2005	36 X 40	50
MB	A04107207	04–104778	2006	36 X 40	50
MT	A54198	PC 121	1990	24 X 40	50
MT	A60811	PC 243	1994	24 X 40	50
MT	A61172	PC 243	1994	24 X 40	50
MT	A65965	PC 266	1997	24 X 40	50
MT	A69746	PC 282	1998	24 X 40	50
MT	A04100727	PC 300	1999	36 X 40	50
MT	A04101194	PC 270	1999	24 X 40	50
MT	A04101767	PC 04–101419	2001	24 X 40	50
MT	A04101891	PC 04–101419	2000	48 X 40	50
MT	A04103044	PC 04–101419	2001	24 X 40	50
MT	A04103205	PC 04–101268	2001	36 X 40	50+20
MT	A04102365	PC 04–101768	2001	24 X 40	50
MT	A04105219	PC 04–101419	2003	24 X 40	50
MT	A04105400	PC 04–104801	2003	48 X 40	50+20
MT	A04105434	PC 04–104796	2003	24 X 40	50
MT	A04105483	PC 04–104796	2004	24 X 40	50
MT	A04106558	PC 04–104801	2004	36 X 40	50+20
MT	A04100726	282	1998	36 X 40	50
MT	A64873	243	1996	36 X 40	50
MT	A02105794	04–104801	2004	36 X 40	50
MT	A04103205	04–101268	2001	36 X 40	50
MT	A54130	79	1991	24 X 40	50
SI	A04108525	PC 04–107557	2007	48 X 40	50
SI	A04108870	PC 04–107557	2008	24 X 40	50
SI	A04108943	PC 04–107557	2007	36 X 40	50 + 20
SI	A04109410	PC 04–107557	2008	48 X 40	50 + 20
SI	A04109518	PC 04–107557	2008	48 X 40	50 + 20
SI	A04109520	PC 04–107557	2008	24 X 40	50 + 20
SI	A04109615	PC 04–107557	2008	48 X 40	50 + 20
SI	A04109640	PC 04–107557	2008	24 X 40	50+20
SI	A04110549	04–109299	2009	24 X 40	50
SI	A04109641	04–107557	2008	36 X 40	50
SI	A04110811	04–109299	2010	36 X 40	50
SI	A04110041	04–107557	2009	24 X 40	50
SI	A04110433	04–109295	2009	24 X 40	50
SI	A04110434	04–109295	2009	24 X 40	50
SI	A04109754	04–107557	2008	36 X 40	50
SI	A04110142	04–109299	2009	24 X 40	50
SI	A04108944	04–107557	2007	48 X 40	50
WS	A04107179	PC 04–105135	2005	24 X 40	50 + 20
GD	A66762	269	1997	24 X 40	50
KS	A68188	PC 266	1997	24 X 40	50
AM	A59780	PC 237	1993	24 X 40	50
AM	A64301	PC 237	1995	24 X 40	50
AM	A65821	PC 264	1996	24 X 40	50
AM	A65821	PC 264	1997	24 X 40	50
AM	A69217	PC 328	1998	24 X 40	50
AM	A02101284	PC 387	1999	24 X 40	50
AM	A02102021	PC 02–101488	2003	24 X 40	50
AM	A02102043	PC 02–101488	2001	24 X 40	50
AM	A02102350	PC 02–101488	2001	24 X 40	50
AM	A02102259	PC 02–101488	2000	24 X 40	50
EN	A02116418	PC 02–113902	2017	24 X 40	65

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AM	A02103141	PC 02–101837	2001	24 X 40	50
AM	A02105185	PC 02–101837	2003	24 X 40	50
AM	A02105619	PC 02–104915	2003	24 X 40	50
AM	A02105634	PC 02–104915	2003	36 X 40	50
AM	A02106165	PC 02–104915	2004	24 X 40	50
AM	A02106184	PC 02–104917	2004	48 X 40	50
AM	A02106185	PC 02–104925	2004	36 X 40	50
AM	A02106215	PC 02–104925	2004	36 X 40	50
AM	A02106239	PC 02–104925	2004	24 X 40	50
AM	A02106374	PC 02–104915	2004	24 X 40	50
AM	A02106845	PC 02–104915	2005	24 X 40	50
AM	A02107161	PC 02–104915	2005	24 X 40	70 50+20
AM	A02107390	PC 02–104915	2005	24 X 40	50
AM	A02108179	PC 02–104917	2006	48 X 40	50
AM	A02105619	02–104920	2003	24 X 40	50
AM	A02106214	02–104915	2004	24 X 40	50
AM	A02106499	02–101285	2004	48 X 40	50
AM	A02101583	388	1999	48 X 40	50
AU	A65301	PC 253	1996	24 X 40	50
AU	A65601	PC 253	1996	24 X 40	50
AU	A67426	PC 272	1997	36 X 40	50
AU	A03107543	PC 04–104816	2004	24 X 40	50
AU	A04101310	PC 04–100335	2000	24 X 40	50
AU	A04105339	PC 04–104816	2003	24 X 40	50
AU	A04106096	PC 04–104816	2004	24 X 40	50
AU	A04106097	PC 04–104816	2004	24 X 40	50 + 20
AU	A64839	A64839 STOCKPILE	2000	24 X 40	50
AU	A59725	A59725 STOCKPILE	1991	48 X 40	50
AU	A04105948	104816	2004	36 X 40	50
AU	A67425	A67425 STOCKPILE	1999	48 X 40	50
EN	A01100789	PC 271	1999	24 X 40	50
EN	A02101478	PC 271	1999	24 X 40	50
EN	A01102792	PC 02–101236	2000	24 X 40	50
EN	A02102108	PC 02–101236	2000	24 X 40	50
EN	A02102873	PC 02–101236	2002	24 X 40	50
EN	A02103726	PC 02–101236	2002	24 X 40	50
EN	A02104123	PC 02–101236	2003	24 X 40	50
EN	A02105136	PC 02–101236	2003	24 X 40	50
EN	A02105898	PC 02–104899	2003	48 X 40	50
EN	A02105944	PC 02–104899	2004	36 X 40	50
EN	A02105945	PC 02–104899	2004	24 X 40	50+20
EN	A02107272	PC 02–104899	2005	48 X 40	50
EN	A02107937	PC 02–104899	2006	48 X 40	50+20
EN	A02108109	PC 02–104899	2006	36 X 40	50
EN	A02108288	PC 02–104899	2006	24 X 40	50
EN	A02107484	PC 02–104899	2005	24 X 40	50
EN	A02109360	PC 02–104899	2008	24 X 40	50
EN	A02107401	02–104899	2005	36 X 40	50
EN	A01102793	02–101236	2000	48 X 40	50
EN	A02103384	02–101236	2001	48 X 40	50
MB	A52144	PC 307	1989	24 X 40	50
MB	A52350	PC 57	1990	24 X 40	50
MB	A53703	PC 57	1990	24 X 40	50
MB	A53982	PC 57	1990	24 X 40	50
MB	A54553	PC 57	1990	24 X 40	50
MB	A65714	PC 253	1996	24 X 40	50
MB	A68436	PC 323	1997	24 X 40	50
MB	A101905	PC 04–101244	2000	24 X 40	50
MB	A04103407	PC 04–101244	2001	36 X 40	50
MB	A04103659	PC 04–101244	2001	24 X 40	50
MB	A04104262	PC 04–101244	2002	24 X 40	50
MB	A04104623	PC 04–101244	2003	48 X 40	50
MB	A04104624	PC 04–101244	2003	24 X 40	50
MB	A04105648	PC 04–104778	2003	48 X 40	50
MB	A04105913	PC 04–104778	2005	24 X 40	50
MB	A04107230	PC 04–104778	2005	24 X 40	50
MB	A04106102	PC 04–104778	2004	24 X 40	50

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

LEGEND:

AM = AMERICAN MODULAR SYSTEMS, INC.

AU = AURORA MODULAR INDUSTRIES, INC.

EN = ENVIRONOPLEX, INC.

MB = MODULAR STRUCTURES INTERNATIONAL, INC.

MT = MODTECH, INC.

SI = SILVER CREEK INDUSTRIES, INC.

WS = WALDEN STRUCTURES & CONSTRUCTION

GD = GARY DOUPNIK MANUFACTURING, INC.

KC = KARSTON COMPANY

NOTES:

1. ONLY THOSE BUILDINGS BUILT WITH 50# OR 50#+20# PARTITION LOADS AS NOTED IN TABLE WILL BE A PART OF THIS PC.
2. ONLY THOSE BUILDINGS MANUFACTURED BY THE SAME MANUFACTURER AND WITH PLANS AND DETAILS SHOWN ON PLAN SHEETS F–8 AND F–9 MAY BE PLACED ADJACENT TO EACH OTHER.
3. STOCKPILE CLASSROOMS WITH INCREASED FLOOR LOAD (100 psf & 125 psf): FOUNDATION PLANS WITH INCREASED FLOOR LOADS ARE REQUIRED TO UTILIZE PC#04–117462 DETAILS TO ADD FLOOR JOIST TO MEET FLOOR LOAD REQUIREMENTS.

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MOBILE MODULAR MANAGEMENT
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PC 04–119396

A–NUMBERS

SITE SPECIFIC APPROVAL	DSA PC STAMP	APPROVAL – PC ENGINEER OF RECORD
	PRE–CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED	REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA Date Signed: September 24, 2020

STRUCTURAL ENGINEERS, INC.

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CHINO, CALIFORNIA 91710

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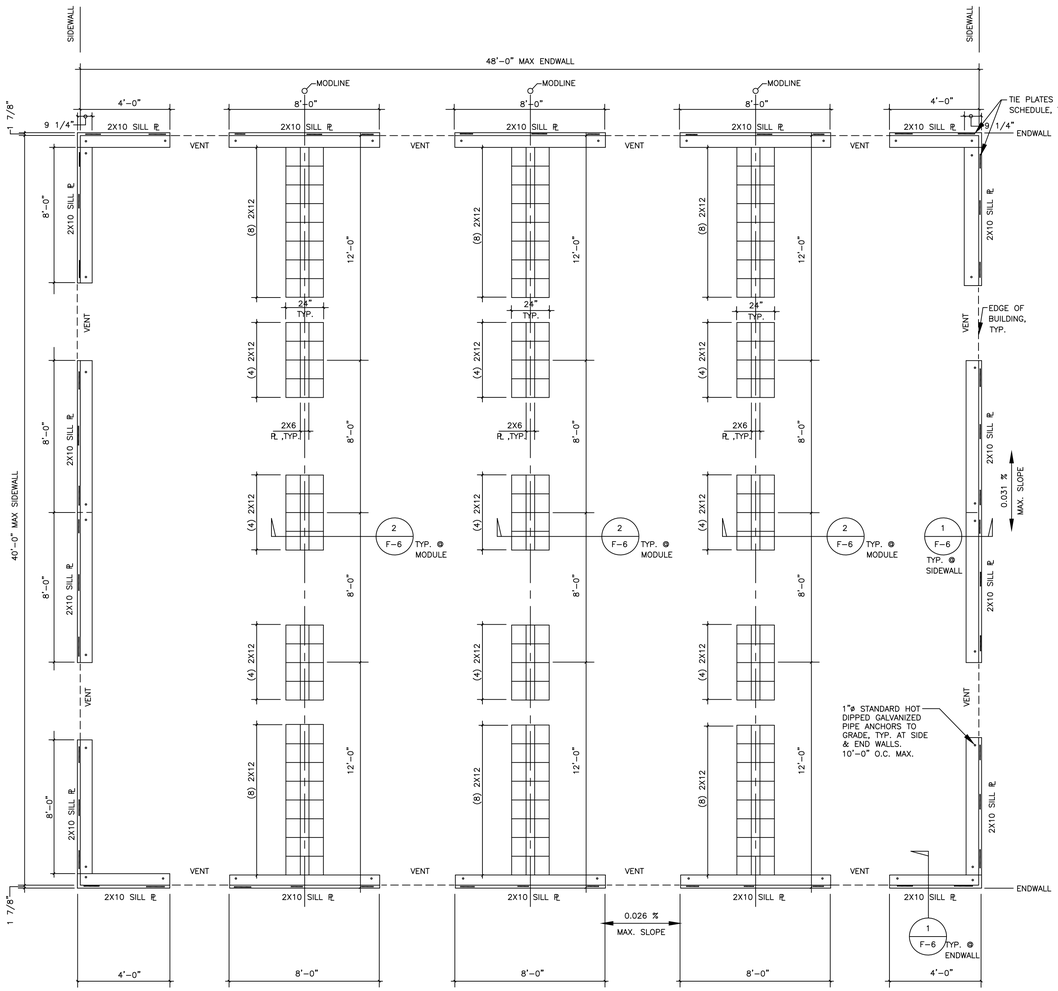
OF 19 SHEETS

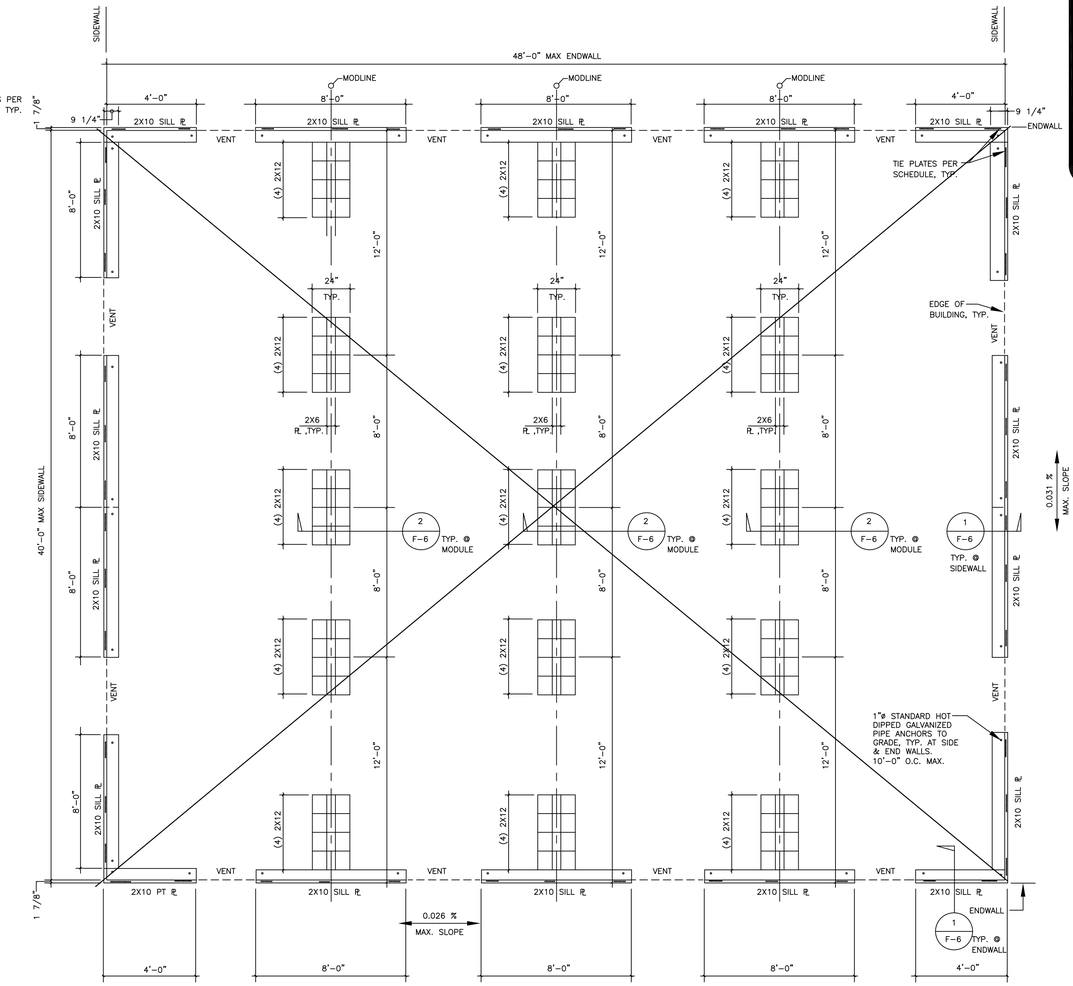
MOBILE MODULAR MANAGEMENT PC – 113193 SHEET_F–2A.DWG

S_S =3.08 (MAPPED VALUE)



FOUNDATION PLAN – 50 PSF FLOOR LIVE LOAD + 20 PSF PARTITIONS

1/4" = 1'-0"



FOUNDATION PLAN – 50 PSF FLOOR LIVE LOAD

1/4" = 1'-0"

TIE PLATE SCHEDULE: (1) (2) (3) 50 PSF / 50 + 20 PSF Ss = 3.08		
Building Size	NUMBER OF TIE PL's PER ENDWALL	NUMBER OF TIE PL's PER SIDEWALL
24'x40'	6	6
36'x40'	9	9
48'x40'	12	12

*End Wall is the 24', 36' or 48' Long Wall of the Building
**Side Wall is the 40' Long Wall of Each Building

TIE PLATE SCHEDULE: (1) (2) (3) 50 PSF / 50 + 20 PSF Ss =3.08 AMERICAN MODULAR SYSTEMS, INC.		
Building Size	NUMBER OF TIE PL's PER ENDWALL	NUMBER OF TIE PL's PER SIDEWALL
24'x40'	6	6
36'x40'	9	9
48'x40'	12	12

*End Wall is the 24', 36' or 48' Long Wall of the Building
**Side Wall is the 40' Long Wall of Each Building

SHOT PIN SCHEDULE: 50 PSF / 50 + 20 PSF Ss = 3.08 AMERICAN MODULAR SYSTEMS, INC.		
Building Size	NUMBER OF SHOT PINS PER ENDWALL	SHOT PINS PER SIDEWALL
24'x40'	13" O.C.	23" O.C.
36'x40'	13" O.C.	15" O.C.
48'x40'	13" O.C.	11" O.C.

*End Wall is the 24', 36' or 48' Long Wall of the Building
**Side Wall is the 40' Long Wall of Each Building

(1) SEE DETAIL 7/F-6 FOR TYPICAL TIE PLATE
(2) USE TIE PLATES FOR ALL MODULAR BUILDING MANUFACTURERS EXCEPT AMERICAN MODULAR
(3) SEE DETAIL 8/F-6 FOR TIE PLATE APPLICABLE TO AMERICAN MODULAR SYSTEMS, INC.

NOTES:

1. SEE SHEET F–1 FOR GENERAL NOTES.
2. SEE SHEET F–7 FOR TYPICAL NOTES.
3. UNDER FLOOR VENTILATION: (@24'X40' BLDG.)*
   REQUIRED VENT. AREA = 24' X 40'/150 = 6.4 SQ. FT.
   MIN. VENT. AREA PROVIDED = 0.25' X (4X4 + 4X 3.385) = 7.38 SQ. FT. (OK)
4. UNDERFLOOR VENTILATION: (@36'X40' BLDG.)*
   REQUIRED VENT. AREA = 36'X40'/150 = 9.6 SQ. FT.
   MIN. VENT. AREA PROVIDED = 0.375' X (6X4 + 4X3.387) = 14.08 SQ. FT. (OK)
5. UNDERFLOOR VENTILATION: (@48'X40' BLDG.)*
   REQUIRED VENT. AREA = 48'X40'/150 = 12.8 SQ. FT.
   MIN. VENT. AREA PROVIDED = 0.375' X (8X4 + 4X3.385) = 17.08 SQ. FT. (OK)
6. PROVIDE 2–2X PLATES OR BLOCKS @ 24'X40' BUILDING (MIN. HEIGHT = 3")
   PROVIDE 3–2X PLATES OR BLOCKS @ 36' & 48'X40' BUILDINGS (MIN. HEIGHT = 4 1/2")
7. ALLOWABLE SOIL BEARING = 1000 PSF, PER DSA I.R.16–1.
8. ALL NAILS FOR PLATE TO PLATE NAILING SHALL BE 16d GALV. BOX.
   ALL NAILS FOR PLYWOOD SKIRTING SHALL BE 8d GALV. BOX.
   ALL FOUNDATION NAILS SHALL BE HOT DIPPED GALVANIZED
   WITH A MIN. OF 1 OZ. OF ZINC PER SQ. FT.
9. UNDERFLOOR DRAINAGE SHALL BE PROVIDED TO PREVENT WATER FROM PONDING BENEATH THE STRUCTURE. UNDERFLOOR DRAINAGE SHALL BE NOTED AND DETAILED ON THE PROJECT SPECIFIC SITE PLANS.
10. HEIGHT OF BUILT UP PLATES WITH SILL PLATE IS NOT TO EXCEED 18" MAX.
11. ALL 2X PLATES AT EXTERIOR FOUNDATIONS AND 2X6 PLATES AT MODLINES TO BE 4' OR 8' LONG WITH NO SPLICES. IF SHORTER PIECES OF 2X PLATES ARE TO BE USED, SPLICE PLATES PER DETAIL 9/F–6.

* NOTE: UNDER FLOOR VENTILATION CALCULATION BASED ON 3" OR 4 1/2" HIGH VENTS. CALCULATIONS CAN VARY BASED ON ACTUAL SITE GRADE ELEVATIONS AND VENT HEIGHTS, MIN. VENT HEIGHT = 1 1/2" AND MAX. VENT HEIGHT = 16 1/2". PROVIDE NOTED REQUIRED VENT. AREA FOR EACH SIZE BUILDING.

SITE SPECIFIC APPROVAL	DSA PC STAMP	APPROVAL – PC ENGINEER OF RECORD
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PC 04–119396

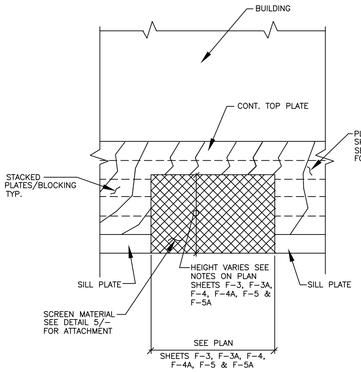
FOUNDATION PLANS

DRAWN
CHECKED
DATE AUG. 15, 2020
SCALE
JOB NO.

F–5A

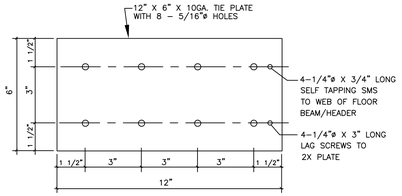
OF 19 SHEETS

MOBILE MODULAR MANAGEMENT PC 113193 SHEET_F–5.DWG

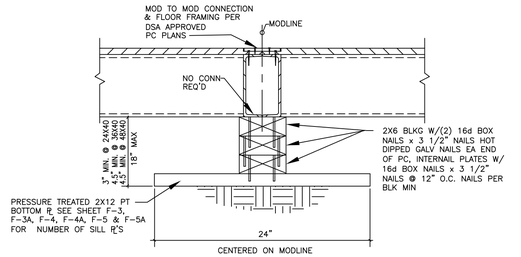


10 SCREEN DETAIL

NTS

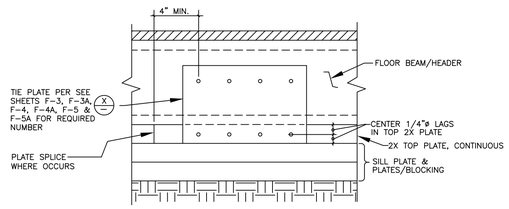


TIE PLATE (X)

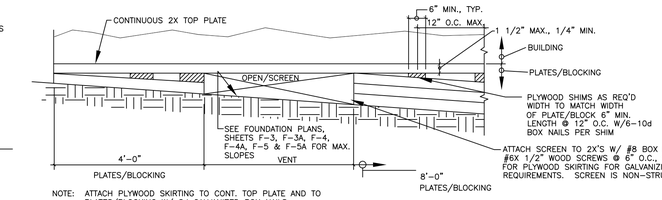


4 MODLINE FOOTING

@ AMERICAN MODULAR SYSTEMS BUILDINGS 1 1/2" = 1'–0"

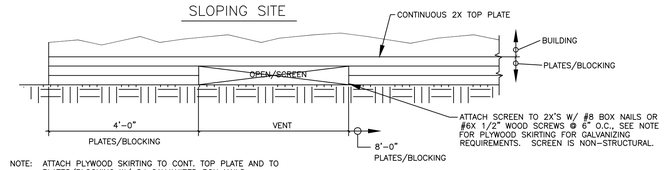


7 TYPICAL FOUNDATION TIE PLATES



NOTE: ATTACH PLYWOOD SKIRTING TO CONT. TOP PLATE AND TO PLATES/BLOCKING W/ 8d GALVANIZED BOX NAILS (ELECTRO PLATED, TUMBLE COATED OR HOT DIPPED) @ 6" O.C. FN. SKIRTING IS NON–STRUCTURAL.

SLOPING SITE

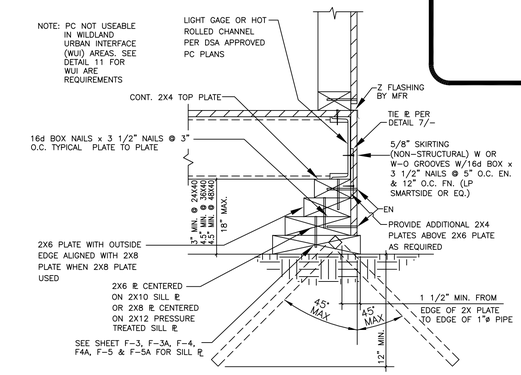


NOTE: ATTACH PLYWOOD SKIRTING TO CONT. TOP PLATE AND TO PLATES/BLOCKING W/ 8d GALVANIZED BOX NAILS (ELECTRO PLATED, TUMBLE COATED OR HOT DIPPED) @ 6" O.C. FN. SKIRTING IS NON–STRUCTURAL.

LEVEL SITE

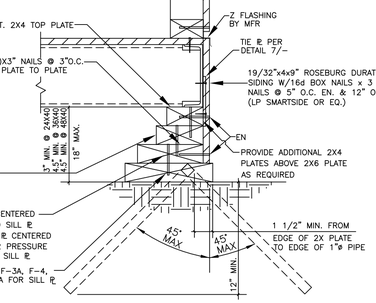
5 PLATE LAYUP @ PERIMETER FTG'S

NTS



1 END WALL & SIDEWALL SILL ℞'S

1 1/2" = 1'–0"

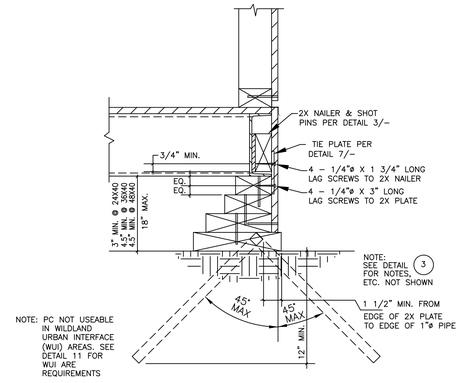


NOTES:
1. EXTERIOR SKIRTING VENTS
- PROTECTED BY CORROSION–RESISTANT, NONCOMBUSTIBLE WIRE MESH WITH OPENING 1/16" TO 1/8"
- MEETS CBC CHAPTER 7A–706A.2 REQUIREMENTS "VENTS – REQUIREMENTS #1 & #2
- CAL–FIRE "LISTING NUMBER" 8165–2192:0100; 8165–2214:0100; 8165–2232:0500 OR EQUIVLANT

2. EXTERIOR SKIRTING (FLOOR LINE TO GRADE)
- 19/32"x4'x9' ROSEBURG DURATEMP SLIDING (UN–GROOVED OR GROOVED @ 8" O.C.)
- MEETS APA 303 SPECIFICATIONS FOR PLYWOOD SLIDING
- COMPLIES WITH SFM 12–7A–1
- CAL–FIRE "LISTING NUMBER 8140–2031:0004"
- MEETS CBC CHAPTER 7A–707A.3.1 "EXTENT OF EXTERIOR WALL COVERING"
- MATERIAL USED SAME AS EXTERIOR SIDING TO MEET WUI REQUIREMENTS

11 END WALL & SIDEWALL SILL ℞'S @ WILDLAND URBAN INTERFACE (WUI)

1 1/2" = 1'–0"



8 END WALL & SIDEWALL SILL ℞'S

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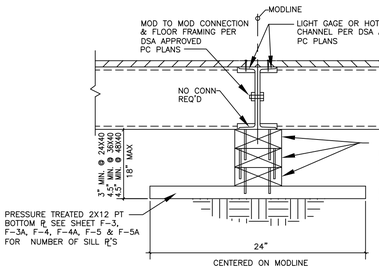
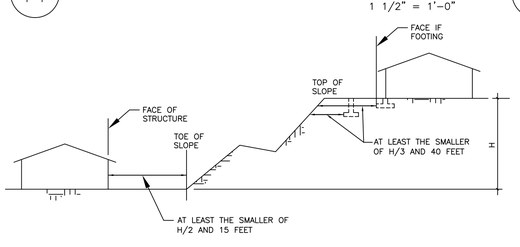


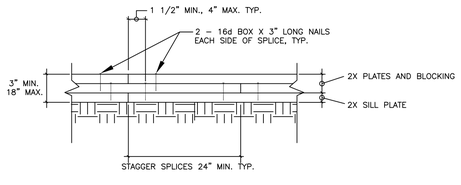
2 MODLINE FOOTING

1 1/2" = 1'–0"



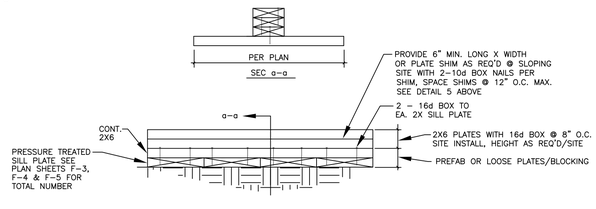
12 FOUNDATION CLEARANCES FROM SLOPES

2019 CBC 1808A.7



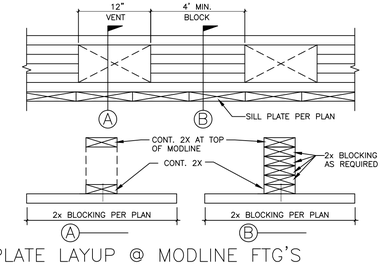
9 TYPICAL 2X PLATE SPLICE

NTS



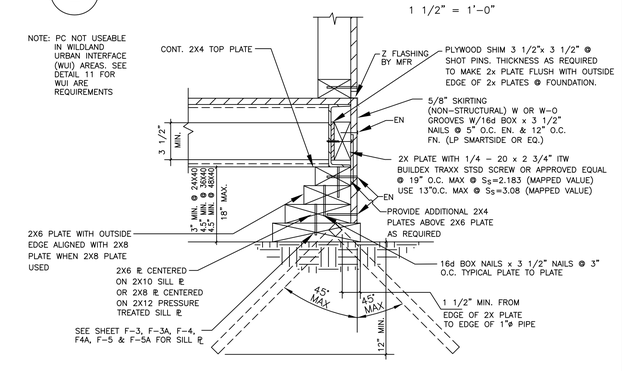
6 PLATE LAYUP @ MODLINE FTG'S

NTS



13 PLATE LAYUP @ MODLINE FTG'S

NTS



3 END WALL & SIDEWALL SILL ℞'S

@ AMERICAN MODULAR SYSTEMS BUILDINGS 1 1/2" = 1'–0"

SITE SPECIFIC APPROVAL	DSA PC STAMP	APPROVAL – PC ENGINEER OF RECORD
	PRE–CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED	REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA Date Signed: September 24, 2020

EXL STRUCTURAL ENGINEERS, INC.

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CHINO, CALIFORNIA 91710

MEMBER
STRUCTURAL ENGINEERS ASSOCIATION OF CALIFORNIA

AMERICAN CONCRETE INSTITUTE

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MOBILE MODULAR MANAGEMENT
11450 MISSION BLVD.
MIRA LOMA, CA 91752

IDENTIFICATION STAMP
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DATE: 10/29/2020

PC 04–119396

DETAILS

DRAWN
CHECKED
DATE AUG. 15, 2020
SCALE
JOB NO.

F – 6

OF 19 SHEETS

MOBILE MODULAR MANAGEMENT PC 113193 SHEET_F–6.DWG

GENERAL SPECIFICATIONS

SECTION 1A

1. GENERAL

A. THE REQUIREMENTS OF THE GENERAL CONDITIONS OF THE AGREEMENT AND THIS GENERAL REQUIREMENTS APPLY TO THE SEVERAL TRADE SECTIONS WITH THE SAME FORCE AS THOUGH FULLY REPEATED IN EACH SECTION.

B. NAME BRANDS ARE INDICATED TO ESTABLISH A STANDARD OF QUALITY. ITEMS OF EQUAL OR BETTER QUALITY MAY BE SUBSTITUTED FOR THE LISTED BRAND NAMED PRODUCTS.

2. SCOPE OF WORK

A. THE WORK CONSISTS OF MANUFACTURING OFF-SITE IN A PLANT, AND INSTALLING ON-SITE, MODULAR RELOCATABLE BUILDING AS DEFINED HEREIN AND SHOWN AND DETAILED ON DRAWINGS.

B. ALL REQUIREMENTS OF TITLE 19 AND 24 OF THE STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) RELATING TO INSPECTIONS AND VERIFIED REPORTS SHALL BE COMPLIED WITH AND SHALL INCLUDE:

1. GENERAL RESPONSIBLE CHARGE OF FIELD ADMINISTRATION BY THE ARCHITECT OF RECORD.
2. INSPECTION DURING THE COURSE OF CONSTRUCTION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND THE DISTRICT ARCHITECT. THE INSPECTOR SHALL BE RESPONSIBLE FOR AND APPROVED TO INSPECT THE GENERAL CONSTRUCTION, WELDING, MECHANICAL AND ELECTRICAL WORK. COST OF THESE INSPECTIONS SHALL BE BORNE BY THE SCHOOL DISTRICT.
3. ON SITE INSPECTION OF THE BUILDING INSTALLATION ELECTRICAL AND UTILITY OF THE BUILDING INSTALLATION BY AN INSPECTOR APPROVED BY THE DIVISION OF THE STATE ARCHITECT AND RETAINED BY THE SCHOOL DISTRICT.
4. OTHER SPECIAL TESTS OR INSPECTIONS AS MAY BE REQUIRED BY THE DIVISION OF THE STATE ARCHITECT. COST OF THESE INSPETIONS/TESTS SHALL BE BORNE BY THE SCHOOL DISTRICT.

3. WORK NOT INCLUDED

A. ALL ON-SITE OR OFF-SITE UTILITIES AND THE CONNECTION OF THEM TO THE BUILDING UNLESS INDICATED ON THE DRAWINGS.

B. ALL LEVELING, GRADING OR OTHER SITE PREPARATION EXCEPT CONCRETE OR WOOD LEVELING STRIPS, WHERE REQUIRED, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

C. FIRE ALARM SYSTEM, FIRE EXTINGUISHER, PROGRAM BELL, CLOCK, PUBLIC ADDRESS SYSTEM, INTERCOM SYSTEM, TV SYSTEM UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

4. WHEELS AND HITCH

SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

5. ACCESSIBILITY OF SITE

THE SCHOOL DISTRICT SHALL PROVIDE ACCESS TO THE SITE FOR THE INSTALLATION OF THE BUILDING. REMOVAL OF TREES, SHRUBS, FENCING, SPRINKLERS, ETC. NECESSARY FOR MOVE-IN AND REMOVAL OF BUILDINGS SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

SECTION 2A SITE ASSEMBLY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO PREPARE THE BUILDING ELEMENTS, TRANSPORT THEM FROM THE PLANT TO THE SITE AND TO COMPLETE THE ASSEMBLY AT THE SITE.

THE CONDITION OF THE SITE, SUCH AS DRAINAGE AND SOIL BEARING CAPACITY, SHALL BE THE RESPONSIBILITY OF THE SCHOOL DISTRICT.

2. ASSEMBLY OF ELEMENTS

A. THE ELEMENTS SHALL BE BROUGHT TO THE SITE ON WHEEL ASSEMBLY AND TRANSFERRED TO THE PREPARED SITE. GREAT CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ELEMENTS BY RACKING OR BUMPING.

B. CONNECTION OF THE ELEMENTS TOGETHER SHALL BE DONE ACCORDING TO INSTRUCTIONS ON THE DRAWINGS. FLASHING, TRIM AND OTHER LOOSE ITEMS SHALL BE INSTALLED PER PLANS AND DETAILS OF THE ORIGINAL MANUFACTURER'S DRAWINGS.

SECTION 3A CARPENTRY

1. SCOPE OF WORK

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SERVICES TO INSTALL CARPENTRY.

2. WORKMANSHIP

A. FRAMING- SECURELY NAILED, BRIDGED AND BLOCKED TO FORM RIGID STRUCTURE. WORK CUT, FITTED AND ASSEMBLED LEVEL, PLUMB AND TRUE TO LINE. TRIM IN AS LONG LENGTHS AS POSSIBLE WITH ALL STANDING TRIM IN ONE PIECE. TRIM SEALED AT ALL EDGES.

B. NAILING- IN ACCORDANCE WITH TITLE 24 CCR- TABLE 2304.10.1. NAILS SHALL BE CORROSION RESISTANT BOX NAILS.

C. MACHINE APPLIED NAILING- SHALL HAVE PRIOR DEMONSTRATION AND APPROVAL BY DSA FIELD INSPECTOR AND THE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUES SATISFACTORY PERFORMANCE. PLYWOOD SHALL HAVE A MINIMUM THICKNESS OF 3/8". IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.

D. TRIM SEALED AT ALL EDGES. SEALANT PAINTED TO MATCH TRIM OR SIDING.

SECTION 4A MATERIAL SPECIFICATIONS

1. STRUCTURAL FRAMING SHALL BE HEM FIR - GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION OR STANDARD GRADING RULES NO. 16 OF THE WEST COAST LUMBER INSPECTION BUREAU, LATEST EDITIONS. GRADES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS. (HEM FIR SOUTH IS NOT ALLOWED.) EACH PIECE SHALL BE GRADE MARKED AND NO PIECE MAY FALL BELOW GRADES INDICATED.
   ALL FRAMING EXCEPT AS NOTED HEM FIR NO. 2.
2. PLYWOOD SHALL BE AS SHOWN ON THESE DRAWINGS WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD DOC PS 1-07 OR DOC PS-04.
   ALL PANELS SHALL BE MARKED WITH AN APA GRADE MARK WITH AN IDENTIFICATION INDEX AS SHOWN ON DRAWINGS. USE 4'x8" PANELS, MINIMUM, EXCEPT AT BOUNDARIES AND FRAMING CHANGES WHERE MINIMUM PANEL DIMENSION SHALL BE 24" AT ROOFS AND FLOORS AND 12" AT WALLS.
3. BOLTS FOR TIMBER CONNECTIONS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-2012 AND 2015 EDITION OF THE NDS. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). BOLT HOLES SHALL BE 1/32 TO 1/16 INCH LARGER THAN BOLT DIAMETER. RE-TIGHTEN BOLTS BEFORE CLOSING IN WORK. BOLTS SHALL BE FULL BODY STEEL BOLTS WITH MINIMUM YIELD STRENGTH OF 45,000 PSI
4. LAG SCREWS SHALL BE STEEL AND CONFORM TO ANSI/ASME STANDARD B18.2.1 AND THE REQUIREMENTS OF THE 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS). HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK. THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE SHANK DIAMETER. ONE QUARTER INCH (1/4") DIAMETER LAG SCREWS NEED NOT HAVE PRE-DRILLED HOLES IF IT CAN BE SHOWN THAT THE WOOD MEMBERS ARE NOT DAMAGED DURING INSTALLATION. PROVIDE FULL DIAMETER BODY LAG SCREWS WITH BENDING YIELD STRENGTHS PER TABLE 12J AND 12K IN NDS.
5. PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS (NOT LESS THAN A STANDARD CUT WASHER) UNDER NUTS AND BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD.
6. WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1 AND THE REQUIREMENTS OF THE 2015 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION (NDS). GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER OR USED IN FOUNDATIONS. SCREWS SHALL BE STEEL WITH CUT THREADS AND BENDING YIELD STRENGTHS PER TABLES 12L AND 12M IN NDS.
7. WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON STRUCTURAL DRAWINGS.
8. WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE-BORED TO 3/4 OF THE NAIL DIAMETER.
9. STRUCTURAL NAILING SHALL BE WITH BOX NAILS PER ALL REQUIREMENTS OF 2015 NDS. NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH CCR TITLE 24, PART 2, TABLE 2304.9.1. ALL NAILS SHALL BE GALVANIZED OR OTHER CORROSION RESISTANT COATING WHERE EXPOSED TO WEATHER, IN FOUNDATIONS AND AS NOTED ON PLANS, PER THE REQUIREMENTS OF CCR TITLE 24, PART 2, WITH MINIMUM BENDING YIELDS PER TABLE 12N, 12P, 12Q AND 12R IN NDS. (SEE NAIL EQUIVALENCE BELOW.)
10. NAIL EQUIVALENCE: (PROVIDE MINIMUM NAIL LENGTHS AS REQUIRED FOR SPECIFIED PENETRATION, TYP. U.O.N.)
    6d EQUALS .113" DIA. - PROVIDE 1.36" MIN POINT PENETRATION
    8d EQUALS .131" DIA. - PROVIDE *1.57" MIN POINT PENETRATION
    10d EQUALS .148" DIA. - PROVIDE *1.78" MIN POINT PENETRATION
    16d EQUALS .162" DIA. - PROVIDE *1.94" MIN POINT PENETRATION
    * 1 1/2" AT 2x MEMBERS
11. PRESSURE PRESERVATIVE TREATMENT SHALL BE PER SECTION 2303.1.9, CCR TITLE 24, PART 2. PROVIDE QUALITY MARK ON ALL TREATED FOUNDATION MEMBERS. PRESSURE TREATED WOOD AND IDENTIFICATION MUST COMPLY WITH CBC 2303.1.9.1. ALL FOUNDATION MEMBERS SHALL BE MARKED AS "FOR GROUND CONTACT (UC4A)" OR "FOR ABOVE GROUND USE (UC3A OR UC3B)" AS APPROPRIATE. TREAT ALL CUT ENDS OF PRESSURE TREATED MEMBERS WITH AN APPROVED PRESERVATIVE. (WILLARD W/B COPPER GREEN 2% OR AN APPROVED EQUIVALENT). WHERE NOTED, MEMBERS BELOW THE SUB FLOOR THAT ARE NOT A PART OF THE FOUNDATION SHALL BE PRESSURE TREATED PER AWPA STANDARD UI.
12. ONLY MATERIAL IN CONTACT WITH GROUND NEEDS TO BE PRESSURE TREATED, ALL OTHER FOUNDATION LUMBER CAN BE DF OR HF#2 OR EQUAL.
13. IF MACHINE NAILING IS UTILIZED FOR THIS PROJECT, CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF CCR TITLE 24, PART 2. MACHINE NAILING IS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER OR ARCHITECT AND THE DIVISION OF THE STATE ARCHITECT.
14. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL COMPLY WITH SEC. 2304.10 OF CBC.
15. NAILS AND SPIKES USED IN WET OR EXTERIOR LOCATIONS SHALL COMPLY WITH SEC. 2304.10.5.1 OF CBC.
16. SHIM MATERIAL SHALL BE PLYWOOD CD EXP 1 OR EQUAL (NOT P.T.).
17. USED LUMBER IN GOOD CONDITION IS ACCEPTABLE FOR USE IN FOUNDATION SYSTEM.

SITE INSTALLATION REQUIREMENTS CLAUSE:

SITE INSTALLATION REQUIREMENTS FOR DSA CLASSROOM BUILDINGS. IN THE CASE OF EQUIPMENT LOCATED IN THE STATE OF CALIFORNIA, THE LESSEE IS RESPONSIBLE FOR THE SITE BEING CLEARED (FREE OF GRASS, SHRUBS, TREES, ETC.) AND GRADED TO WITHIN 4 1/2" OF LEVEL GRADE FOR EACH BUILDING. IF THE SITE EXCEEDS THE 4 1/2" REQUIREMENT ADDITIONAL COSTS MAY BE CHARGED TO LESSEE. UNDER NO CIRCUMSTANCES SHOULD THE SITE BE GREATER THAN 9" FROM LEVEL GRADE OR HAVE LESS THAN A 1000 PSF MINIMUM SOIL BEARING PRESSURE. PRIOR TO DELIVERY, THE LESSEE SHALL MARK THE FOUR CORNERS OF THE BUILDING ON THE SITE, INCLUDING THE DOOR LOCATION. SHOULD SPECIAL HANDLING BE REQUIRED TO EITHER PLACE, INSTALL OR REMOVE THE CLASSROOM ON THE LESSEE'S SITE DUE TO SITE OBSTRUCTIONS SUCH AS FENCING, LANDSCAPING, OTHER CLASSROOMS, ETC., ADDITIONAL COSTS WILL BE CHARGED TO LESSEE.

TEST AND INSPECTIONS:

1. PROVIDE ELECTRICAL GROUNDING TEST PER DSA IR E-1
2. NO OTHER TESTS AND INSPECTIONS ARE REQUIRED.

SITE SPECIFIC APPROVAL

DSA PC STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVAL - PC ENGINEER OF RECORD

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 24, 2020

EXL STRUCTURAL ENGINEERS, INC.
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PC 04-119396

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DRAWN
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SCALE
JOB NO.

F-7

OF 19 SHEETS

MOBILE MODULAR MANAGEMENT PC 113193 SHEET_F-7.DWG

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

Application Number:	School Name:	School District:
04-119396	Mobile Modular Management Corp	Mobile Modular Management Corp
DSA File Number:	**Increment Number:**	**Date Created:**
PC-127		2020-09-01 09:39:04

2019 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 CBC).

****NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	**GE** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	**LOR** – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
Test – Indicates that a test is required	**PI** – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	School Name:	School District:
04-119396	Mobile Modular Management Corp	Mobile Modular Management Corp
DSA File Number:	**Increment Number:**	**Date Created:**
PC-127		2020-09-01 09:39:04

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
☐	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

NOTE:

THE EXAMPLE FORM DSA–103 SHOWN IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTIRE PROJECT–SPECIFIC FORM DSA–103.

A FORM DSA–103 IS TO BE COMPLETED FOR EACH PROJECT APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA–103 IS TO BE CROSSED OUT ON THIS DRAWING

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	School Name:	School District:
04-119396	Mobile Modular Management Corp	Mobile Modular Management Corp
DSA File Number:	**Increment Number:**	**Date Created:**
PC-127		2020-09-01 09:39:04

☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	Welding:
☐	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	School Name:	School District:
04-119396	Mobile Modular Management Corp	Mobile Modular Management Corp
DSA File Number:	**Increment Number:**	**Date Created:**
PC-127		2020-09-01 09:39:04

☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for section 19, 19.1 and/or 19.2 located in the Steel/Aluminum category).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2019 CBC

Application Number:	School Name:	School District:
04-119396	Mobile Modular Management Corp	Mobile Modular Management Corp
DSA File Number:	**Increment Number:**	**Date Created:**
PC-127		2020-09-01 09:39:04

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: **Date:**

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

PRE–CHECK (PC) DOCUMENT
CODE: 2019 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

MOBILE MODULAR MANAGEMENT
11450 MISSION BLVD.
MIRA LOMA, CA 91752

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PC 04-119396

DSA FORM 103

SITE SPECIFIC APPROVAL	DSA PC STAMP	APPROVAL – PC ENGINEER OF RECORD
	PRE–CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED	REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA Date Signed: September 24, 2020

STRUCTURAL ENGINEERS, INC.
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MEMBER
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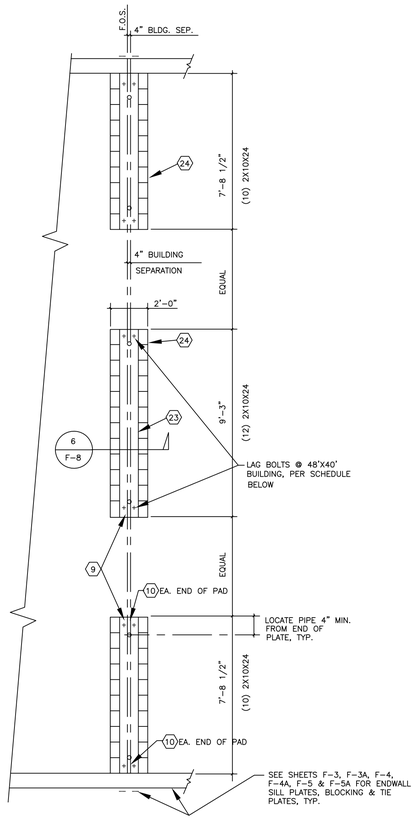
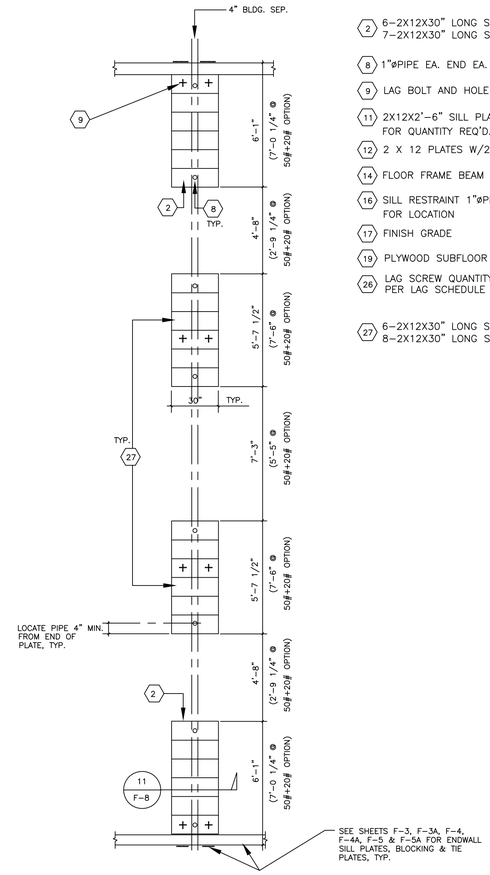
F–7A

OF 19 SHEETS

MOBILE MODULAR MANAGEMENT PC 113193 SHEET_F-7.DWG





PAD FTG'S AT ADJ. BLDG.

2 6-2X12X30" LONG SILL PADS @ 50 PSF, 7-2X12X30" LONG SILL PADS @ 50 PSF + 20 PSF

8 1"øPIPE EA. END EA. PAD AT ADJ. BLDG LINE

9 LAG BOLT AND HOLE PER LAG SCHEDULE TABLE

11 2X12X2'-6" SILL PLATE SEE FOUND. PLAN FOR QUANTITY REQ'D.

12 2 X 12 PLATES W/2-16d BOX @ 3" O.C.

14 FLOOR FRAME BEAM SEE STRUCTURAL

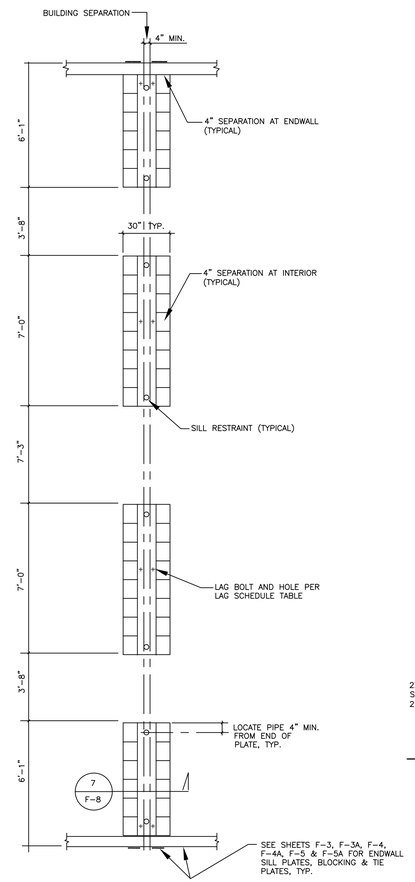
16 SILL RESTRAINT 1"øPIPE SEE FOUND. FOR LOCATION

17 FINISH GRADE

19 PLYWOOD SUBFLOOR

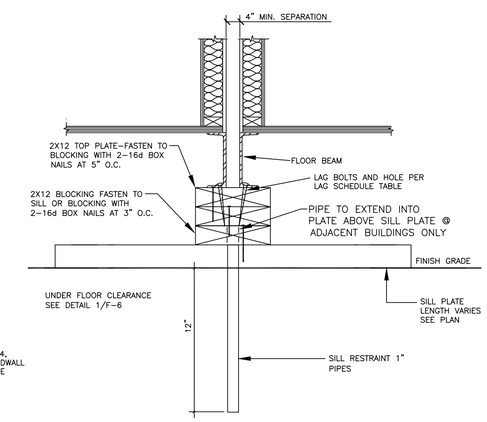
26 LAG SCREW QUANTITY TO BE PROVIDED PER LAG SCHEDULE

27 6-2X12X30" LONG SILL PADS @ 50 PSF, 8-2X12X30" LONG SILL PADS @ 50 PSF + 20 PSF



FOOTINGS AT ADJACENT BUILDING SEPARATION (4" SEPARATION)

PLAN 10X F-8



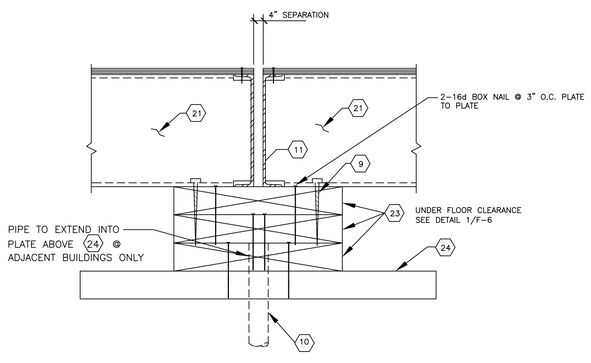
4" BUILDING SEPARATION FOOTING 7 F-8

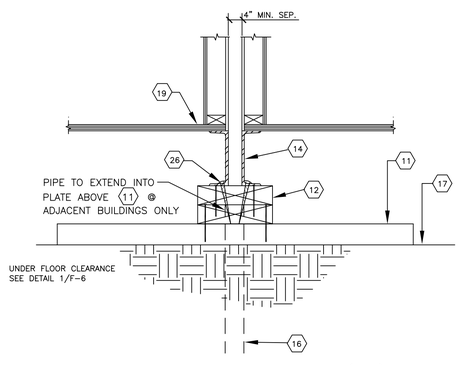
WALDEN STRUCTURES & CONSTRUCTION (WS)

ADJACENT BUILDING FOUNDATIONS

SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.

NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS





MODTECH, INC.(MT) 11 F-8

ADJACENT BUILDING FOUNDATIONS

SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.

NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS

9. LAG BOLT AND HOLE PER LAG SCHEDULE TABLE #1 OR TABLE #2
10. DRIVE 1" DIA. X 15" G.I. PIPE @ 10'-0" O.C. MAX. DRILL SILL PLATE 1-1/4" MAX. PIPE MAY BE DRIVEN AT MAX. 45 ANGLE TO VERTICAL
11. 7"X 9.8# STEEL FLOOR CHANNEL
21. FLOOR JOIST OR BLOCK BETWEEN FLOOR JOIST.
23. CONTINUOUS 2X12X(SEE PLAN). NAIL(2) 16d AT EACH END AND 7" O.C.
24. 2X10X24" LONG SILL PADS. P.T.H.F. (SEE PLAN FOR QUANTITY (10) AT ENDS & (12) AT INTERIOR)

MODULAR STRUCTURES INTERNATIONAL, INC. (MB) 6 F-8

ADJACENT BUILDING FOUNDATIONS

SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.

NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS

TABLE 1

NUMBER OF LAGS PER BUILDING AT ADJACENT BUILDING LINES
50 PSF / 50 + 20 PSF / 100 PSF

Building Size	NUMBER OF TIE PL's PER ENDWALL	NUMBER OF TIE PL's PER SIDEWALL	NUMBER OF TIE PL's PER ENDWALL	NUMBER OF TIE PL's PER SIDEWALL
	5/8" x 4"		1/2" x 3-1/2"	
	Ss= 2.183	Ss= 3.08	Ss= 2.183	Ss= 3.08
24'x40'	4	6	6	9
36'x40'	6	9	9	13
48'x40'	8	12	12	17

TABLE 2

NUMBER OF LAGS PER BUILDING AT ADJACENT BUILDING LINES
125 PSF

Building Size	NUMBER OF TIE PL's PER ENDWALL	NUMBER OF TIE PL's PER SIDEWALL	NUMBER OF TIE PL's PER ENDWALL	NUMBER OF TIE PL's PER SIDEWALL
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LAG SCHEDULE TABLES

SITE SPECIFIC APPROVAL

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APPROVAL - PC ENGINEER OF RECORD

REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA

Date Signed: September 24, 2020

STRUCTURAL ENGINEERS, INC.

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CHINO, CALIFORNIA 91710

MEMBER
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MIRA LOMA, CA 91752

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PC 04-119396

ADJACENT BLDGS

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F-8

OF 19 SHEETS

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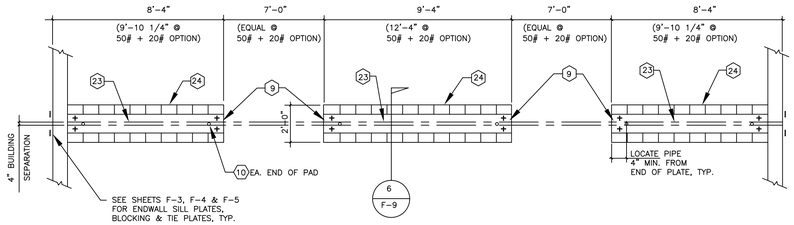

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11. STEEL FLOOR CHANNEL
12. 5" DIA. ACCESS HOLE AT MODULE CONNECTION BOLT LOCATIONS.
15. PLYWOOD STRIP – 3/4" X 3" X 8" PIECE W/(2) #12X 2-1/4" FLAT HEAD WOOD SCREWS EACH END.
16. PLUG – 5" DIA. PIECE OF FLOOR SHEATHING W/(2) #12X 2-1/4" FLAT HEAD WOOD SCREWS EA. END.
21. FLOOR JOIST OR BLOCK BETWEEN FLOOR JOIST.
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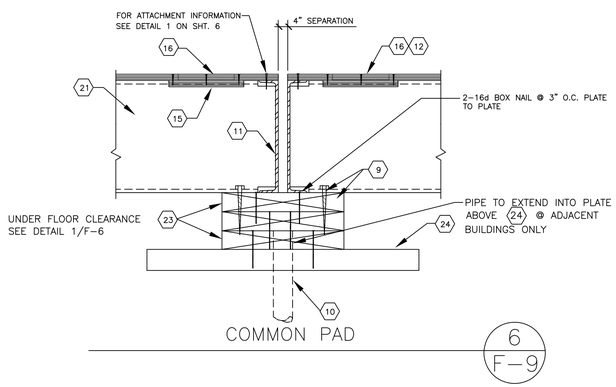
24. 2X10X24" LONG SILL PADS. P.T.H.F. (SEE PLAN FOR QUANTITY (10) AT ENDS & (12) AT INTERIOR) @ 50# FLOOR LOAD, PROVIDE 12 AT ENDS AND 16 AT INTERIOR @ 50# + 20# FLOOR LOAD OPTION)



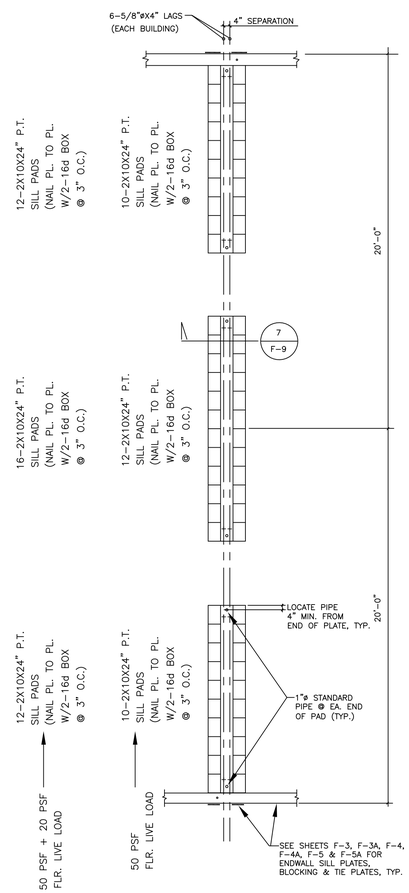
COMMON PAD

AURORA MODULAR INDUSTRIES, INC. (AU)

ADJACENT BUILDING FOUNDATIONS

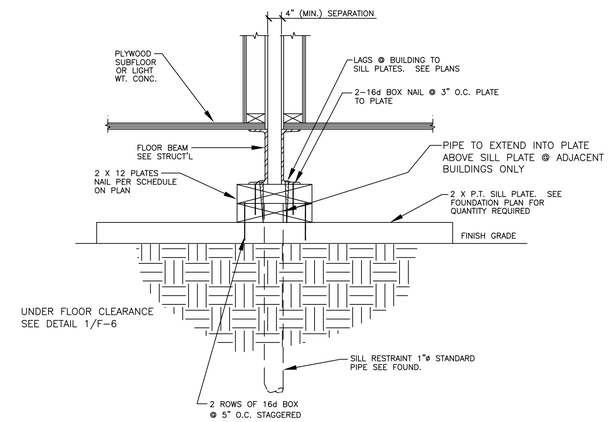
SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.

NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS



PARTIAL PLAN @ BLDG. SEPARATION

(SEPARATION APPLIES WHEN BUILDINGS ARE SET AS TWO INDIVIDUAL UNITS)



4" BLDG. SEPARATION @ FTG. 7/F-9

SILVER CREEK INDUSTRIES, INC. (SI)

ADJACENT BUILDING FOUNDATIONS

SEE SHEET F-2 FOR DSA APPLICATION NUMBERS.

NOTE: ADJACENT BUILDING PLAN DETAILS ARE PER EXISTING APPROVED DSA STOCKPILE PLANS

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NUMBER OF LAGS PER BUILDING AT ADJACENT BUILDING LINES
50 PSF / 50 + 20 PSF / 100 PSF

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NUMBER OF LAGS PER BUILDING AT ADJACENT BUILDING LINES
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LAG SCHEDULE TABLES

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	PRE-CHECK (PC) DOCUMENT CODE: 2019 CBC A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED	REGISTERED PROFESSIONAL ENGINEER JAMES T. SIMPSON No.3602 STRUCTURAL STATE OF CALIFORNIA Date Signed: September 24, 2020

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PC 04-119396

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F-9

OF 19 SHEETS

MOBILE MODULAR MANAGEMENT PC 113193 SHEET_F-9A.DWG

OWNER
CUSTOM CANOPIES INC.
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SANTA FE SPRINGS, CA 90670
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F: (562) 464-4770
CONTACT: STEVE GRAAF

ARCHITECT
RON EDWARDS ARCHITECT
7400 PEDRICK CT
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STRUCTURAL
ORION STRUCTURAL ENGINEERING
11305 RANCHO BERNARDO ROAD, STE 121
SAN DIEGO, CA 92127
T: (858) 679-1974
CONTACT: RYAN OMER

PRECHECK FABRIC SHADE STRUCTURE

FOR
CUSTOM CANOPES INC.

	ARCHITECTURAL:
T001	TITLE SHEET
A002	TITLE 24 GUIDELINE & CAL-FIRE MATERIAL CERT.
	2 SHEETS
	STRUCTURAL
S1.1	GENERAL NOTES & TYPICAL DETAILS
S1.2	GENERAL NOTES & TYPICAL DETAILS
S1.3	GENERAL NOTES & TYPICAL DETAILS
S2	CUSTOM CANOPIES 2019 CBC DRAWINGS
S3	CUSTOM CANOPIES 2019 CBC DRAWINGS
S4	CUSTOM CANOPIES 2019 CBC DRAWINGS
	6 SHEETS
TOTAL	8 SHEETS

MATERIAL SPECIFICATIONS - SEE ALSO SHEETS S1.1 & S1.2

1. MALLEABLE WIRE ROPE CLIPS
   - 1.A. CABLE CLIPS SHALL BE FORGED STEEL PER FEDERAL INSPECTION FF-C-40 TYPE 1, CLASS 2 INSTALLED WITH THE U-BOLT ON THE CABLE DEAD END (SEE SPECIFICATION SHEET ON THIS SHEET.)
   - 1.B. BOLT TORQUE FOR $\frac{1}{4}$"Ø CABLE CLIPS = 15 lb-ft, FOR $\frac{5}{26}$"Ø CABLE CLIPS = 30 lb-ft.
2. BOLT HOLES
   - 2.A. BOLT HOLE DIAMETERS SHALL BE $\frac{1}{16}$" LARGER THAN THE BOLT DIAMETER.
   - 2.B. ALL BOLTS SHALL BE INSTALLED WITH LOCK WASHERS.
3. CORROSION PROTECTION
   - 3.A. STEEL TUBE ROOF MEMBER SHALL BE TRIPLE COATED USING IN-LINE ZINC ELECTROPLATING PER ASTM E-6 AND THEN POWDER COATED WITH A TGIC POLYESTER TOP COAT.
   - 3.B. STEEL PIPE COLUMNS SHALL BE POWDER COATED WITH A TGIC POLYESTER PRIMER AND TOP COAT.
   - 3.C. ZINC SPELTER CONFORMS TO ASTM B-6 HIGH GRADE ZINC.
4. FABRIC MATERIAL
   - 4.A. FABRIC MATERIAL SHALL BE EXTRA BLOCK, OR COMMERICAL NINETYFIVE 340R FABRIC.
   - 4.B. THE FABRIC SHALL BE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE POLYMER.
   - 4.C. MIN. WEIGHT - 8.3 oz/sq.yd
   - 4.D. MIN. BREAKING STRENGTH PER ASTM D 5034: WARP = 165 lbs., WEFT = 260 lbs.
   - 4.E. MAX. ELONGATION: WARP = 115%, WEFT = 76%.
   - 4.F. MIN. TEAR STRENGTH PER ASTM D 2261: WARP = 26 lbs., WEFT = 26 lbs.
   - 4.G. FIRE RETARDANT RATING PER CSTM - TITLE 19, (REGISTRATION #: ALNET EXTRA BLOCK SHADECLOTH - F94501)
   - 4.H. THE FABRIC SHALL BE CAPABLE OF MAINTAINING 80% OF IT'S TENSILE AND TEARING STRENGTH AFTER EXPOSURE TO A 313NM LIGHT SOURCE APPLIED FOR 500 HOURS AND WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS PER ASTM G53. THE FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE SAMPLES OF THE SAME MATERIAL SHALL BE MAINTAINED AT THE PROJECT SITE AND TESTED TO SHOW COMPLIANCE WITH ASTM D 5034 AND D 2261.
   - 4.I. THE FABRIC SHALL MAINTAIN AT LEAST 50% OF IT'S ORIGINAL BREAKING STRENGTH AFTER 5 YEARS OF EXPOSURE TO SUNLIGHT.
5. STANDARD NOTES
   - 5.A. ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
   - 5.B. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 (CCR)
   - 5.C. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRCT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 (CCR). MINIMUM CLASS 2 PROJECT INSPECTOR IS REQUIRED.
   - 5.D. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
   - 5.E. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA.
   - 5.F. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

ALNET AMERICAS — EXTRABLOCK

EXTRABLOCK

Designed for strength and durability. Alnet's Extrablock shadecloth protects against all of nature's extremes. It meets the highest standards and is knitted to be dimensionally stable for easy fabrication. Extrablock also comes in 18 California Fire Marshall approved colors and is backed by a 10-year warranty to demonstrate our dedication to quality, durability and safety.

CERTIFICATIONS

NFPA 701 · ASTM E84 TESTING · UP TO 98% UVR PROTECTION · 100% RECYCLABLE · SABS APPROVED · verified BEE rating

10 Year Warranty

ALNET is the leading innovator in synthetic textile and netting material production for the world's ***architectural, agricultural, aquacultural*** and ***industrial industries.***

For more information, please contact **protect@AlnetAmericas.com** or visit us at **www.AlnetAmericas.com**

Properties	Mass	Thickness	Fabric Width	Strip Tensile		Elongation at Break		Tearing Strength - Tongue Tear		Burst Strength	Burst Strength	Air Permeability	Temp. Stability
Test Method	ASTM 3776	ASTM 1777	ASTM 3774	ASTM D 5034		ASTM D 4595 87		ASTM D 2261		ASTM 3787 Ball	ASTM 3786 Mullen	ASTM D704	
				Warp	Weft	Warp	Weft	Warp	Weft			cm/ft2	
US	9.6 oz/yd	50.4 mil	118 in.	278 lbf	340 lbf	71%	74%	33 lbs	36 lbs	363 lb	460 psi	263.5	-13°F +176°F
Metric	325 gsm	1.28mm	3 m	1236 N	1512 N	71%	74%	147 N	160 N	1615 N	3172 kPa		-25°C +80°C

Colors	UPF	UVR	Shade Factor	Fire Retardancy	Flame Resistance
Cream	13	92%	74%	Yes	ASTM E-84
Beige	33	97%	87%	Yes	ASTM E-84
Yellow	16	94%	76%	Yes	ASTM E-84
Red	29	97%	86%	Yes	ASTM E-84
True Blue	14	93%	89%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Forest Green	24	96%	94%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Silver	19	95%	93%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Sunblaze	14	94%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Latte	18	95%	90%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Bottle Green	16	94%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Charcoal	20	96%	94%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Midnight	33	98%	98%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Mint Green	18	95%	93%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Dove Blue	13	93%	90%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Oxide Red	14	93%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Pearl Onyx	16	94%	86%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Purple	16	94%	86%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Olive	26	97%	96%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Brown	19	95%	93%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Navy Blue	23	96%	96%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Lime	18	95%	79%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84
Hazelnut	18	95%	91%	Yes	CSFM/CA 1237.1 Title 19 - NFPA-701 #2 - CAN/ULC-S109 - ASTM E-84

APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES AS OF January 1, 2021*
2022 California Administrative Code (CAC), Part 1, Title 24 CCR*
2019 California Building Code (CBC), Part 2, Title 24 CCR
(2019 International Building Code, Vol. 1 & 2, and 2019 California amendments)
2019 California Fire Code (CFC), Part 9, Title 24 CCR
(2018 International Fire Code and 2019 California Amendments)

GENERAL NOTES

1. FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33 AND CBC CHAPTER 33.

kulkoni — MALLEABLE WIRE ROPE CLIPS

ZINC PLATED, MALLEABLE

Size in Inches	Min. Clips Required	Wire Rope Turn Back in Inches	Torque in Foot Pounds*	Approx. Wt. in Pounds	A	B	C	D	E	F	G
1/16**	3	4	2.0	0.030	0.15	0.65	0.45	0.38	0.38	0.45	0.69
1/8**	3	4.3/4	3.0	0.040	0.18	0.81	0.50	0.50	0.50	0.56	0.94
3/16	3	5.1/2	4.5	0.063	0.25	0.94	0.56	0.56	0.56	0.63	1.06
1/4	3	7	15.0	0.130	0.31	1.19	0.75	0.75	0.69	0.75	1.31
5/16	3	7.3/4	15.0	0.150	0.31	1.31	0.84	0.75	0.75	0.75	1.44
3/8	3	9.1/2	30.0	0.210	0.38	1.63	1.00	0.88	0.84	0.88	1.63
7/16	4	10.1/4	40.0	0.370	0.38	2.00	1.19	1.06	1.00	1.06	1.88
1/2	4	15.1/4	45.0	0.370	0.44	2.00	1.19	1.06	1.00	1.06	1.88
9/16	4	16	50.0	0.590	0.50	2.31	1.38	1.25	1.25	1.28	2.09
5/8	4	16	75.0	0.590	0.50	2.31	1.38	1.25	1.25	1.28	2.09
3/4	5	22.1/4	75.0	0.840	0.56	2.56	1.56	1.31	1.44	1.56	2.38
7/8	5	23.1/2	130.0	1.250	0.63	3.06	1.81	1.63	1.75	1.81	2.88
1	6	31	130.0	1.660	0.63	3.44	2.00	1.88	2.06	2.00	3.00
1.1/8	7	39	200.0	2.430	0.75	4.00	2.75	2.00	2.19	2.06	3.38

Meets the performance requirements of Federal Specification FF-C-450, current revision, Type 1, Class 2.**
* Based on clean, unlubricated threads. The table above shows the minimum torque required to reach maximum holding power of wire rope clips.
** NOTE: 1/16" and 1/8" are not covered by Federal Specification FF-C-450, current revision.

Improper use and installation of cast malleable wire rope clips can result in serious injury or death.
NEVER use cast malleable wire rope clips for lifting or suspending ANY load.
Cast malleable wire rope clips are to be used only for non-critical, light duty applications with small applied loads.
For complete installation instructions refer to page 48.

CAL FIRE — FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-094501

EXTRA BLOCK SHADECLOTH

Product Marketed by:

ALNET PTY (LTD)
MOORSOM AVENUE, EPPING, INDUSTRY II
CAPE TOWN, S. AFRICA, ,

Issue Date : 06/01/2022
Expiration Date : 06/30/2023

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

Issued By Vikkie Franklin
Fire Engineering License Manager
Fire Engineering & Investigations Division

Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.govmotus.org for more information on Licensing and Permitting with CAL FIRE

Page 1 of 1

DESIGN PARAMETER CHECKLIST FOR OTC REVIEW

THE FOLLOWING CHECKLIST IS INTENDED TO ASSIST THE PLAN REVIEWER TO DETERMINE IF THIS PRE-CHECKED SUBMITTAL IS APPLICABLE TO THE SITE SPECIFIC CONDITIONS IN WHICH IT IS INTENDED TO BE USED. IT IS THE SITE APPROVAL ARCHITECT'S RESPONSIBILITY TO FILL IN THE APPROPRIATE BOXES AND CONFIRM SITE CONDITIONS. IF THIS CHECKLIST CANNOT BE COMPLETED, ADDITIONAL ENGINEERING PROVING SITE-SPECIFIC COMPLIANCE IS REQUIRED.

THIS PRE-CHECKED SUBMITTAL IS APPLICABLE UNDER THE FOLLOWING CIRCUMSTANCES:

- [x] NONE OF THE STRUCTURAL DESIGN CRITERIA ARE EXCEEDED
- [x] THE RISK CATEGORY IS 'II' OR LESS
- [ ] THE WIND EXPOSURE CATEGORY IS 'C'
- [x] THE PROJECT SITE BASIC ULTIMATE WIND SPEED IS <100mph
- [x] THE PROJECT SITE CLASS CATEGORY IS 'D'
- [ ] THE PROJECT SEISMIC DESIGN CATEGORY IS 'E'
- [x] THE PROJECT SEISMIC SDS IS MAXIMUM 2.40
- [x] THE PROJECT SITE IS NOT IN A FLOOD ZONE OTHER THAN ZONE 'X'. IF SO, THEN A GEOTECHNICAL LETTER IS REQUIRED PER IR PC-4 1.7.2.
- [x] THE PROJECT SITE IS NOT IN AN AREA WITH SNOW LOADING EXCEEDING 5 PSF.
- [ ] THE PROJECT IS DESIGNED FOR VERY HIGH FIRE HAZARD SEVERITY ZONE (AREAS PER CBC CHAPTER 7A.
- [ ] THE ALLOWABLE SOIL BEARING PRESSURE IS 1500psf OR GREATER
- [x] IF THE CANOPY SIZE IS <1600s.f. IN AREA, NO GEOTECHNICAL/GEOHAZARDS REPORT IS REQUIRED.
- [ ] IF THE CANOPY SIZE IS >1600s.f. AND <4000s.f. AND THERE IS A GEOTECHNICAL REPORT PROVING THAT NO POTENTIAL FOR LIQUIFICATION EXISTS, NO GEOHAZARDS REPORT IS REQUIRED.
- [ ] IF THE CANOPY SIZE IS >4000s.f., A SITE SPECIFIC GEOTECHNICAL/GEOHAZARD REPORT IS REQUIRED GEOTECHNICAL/GEOHAZARD REPORT REQUIRED IN MAPPED GEOLOGIC HAZARD ZONES AND AS REQUIRED BY IR A-4.
- [x] THE CANOPY SIZE PROVIDES THE MAXIMUM REQUIRED AREA FOR SELECTED ASSEMBLY USE AND DESIRED OCCUPANCY LOAD (SEE ASSEMBLY USE CHECKLIST)
- [x] THE PROJECT IS NOT INTENDED TO PROVIDE SOLAR PANELS
- [x] THE PROJECT DOES NOT INCLUDE FIRE SPRINKLERS.

ASSEMBLY USE SELECTION CHECKLIST

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED ASSEMBLY USE FOR THIS STRUCTURE.

- [ ] DINING CANOPY - ASSEMBLY USE - 'A2'
- [ ] SHADE STRUCTURE - ASSEMBLY USE - 'A'
- [x] SHADE STRUCTURE - OUTDOOR INSTRUCTIONAL USE - ASSEMBLY USE - 'E'
- [ ] SHADE STRUCTURE OVER PLAY EQUIPMENT - ASSEMBLY USE - 'E'
- [ ] SHADE STRUCTURE OVER PARKING - ASSEMBLY USE - 'S2' OR 'U'

NOTE: THE LOCATION OF THESE CANOPIES ADJACENT TO OTHER BUILDINGS IS SUBJECT TO SITE SPECIFIC APPROVAL

- [ ] THE INTENDED OCCUPANT LOAD IS __60__ PERSONS

SITE-SPECIFIC CODE ANALYSIS

THE SECTION IS TO BE FILLED OUT BY THE ARCHITECT OF RECORD FOR THE SITE-SPECIFIC APPROVAL

- [ ] OCCUPANCY GROUP: E (SEE ASSEMBLY USE CHECKLIST) OCCUPANCY LOAD FACTOR: 20 Net
- [ ] OCCUPANCY LOAD: 60
- [ ] TYPE OF CONSTRUCTION: TYPE II-B
- [ ] PROPOSED AREA: 1,200 SF
- [ ] ALLOWABLE AREA: 26,500 SF

CANOPY SIZE SELECTION CHECKLIST

THE FOLLOWING CHECKLIST IS TO BE USED BY THE PARTY SUBMITTING THIS PRE-CHECK TO INDICATE THE INTENDED SIZES USED FOR THIS PRE-CHECK STRUCTURE. SITE SPECIFIC AOR TO SPECIFY IF CONJOINED OR NON-CONJOINED COLUMNS PER SHEET S2.0.

[ ] 20'X10'	[ ] 30'X20'	[ ] 30'X30'
[ ] 20'X15'	[ ] 30'X25'	[x] 40'X30'
[ ] 20'X20'	[ ] 36'X18'	[ ] __'X__' (FOR INTERMEDIATE SIZE)
[ ] 25'X25'	[ ] 40'X20'	[ ] __'X__' (FOR INTERMEDIATE SIZE)

NOTES:
1. PLAN DIMENSIONS ARE REPEATABLE IN ANY ONE DIRECTION TO A TOTAL AREA OF 4000 SQ.FT. STRUCTURALLY. MAXIMUM SIZES MAY BE LESS DUE TO RISK CATEGORY THRESHOLDS. SEE TABLE 1604.5, 2019 CBC.
2. INTERMEDIATE SIZES MAY USE THE MEMBER SIZES OF THE NEXT LARGEST CANOPY WITH AN IDENTICAL WIDTH TO LENGTH RATIO.

COLUMN HEIGHTS:

[ ] 9' COLUMN HEIGHT [ ] 10' COLUMN HEIGHT [ ] 11' COLUMN HEIGHT [x] 12' COLUMN HEIGHT

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

rea architect RON EDWARDS

Architecture
7400 Pedrick Court
Bakersfield, CA 93313
(661) 394-0053
ron@rearchitect.net

LICENSED ARCHITECT RONALD W. EDWARDS C 25192 REN 12-31-23 STATE OF CALIFORNIA

MANUFACTURER:

CUSTOM CANOPIES INC.
11815 BURKE STREET

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
PRE-CHECK PC DOCUMENT
CODE: 2019 CBC
A separate application for construction is required

PC APPROVAL STAMP:

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121376 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2022

PRECHECK FABRIC SHADE STRUCTURE

TITLE SHEET

Project # 22-029	**T001**
Drawn By RWE	
Date 7-12-22	

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

Application Number: 04-121376 | School Name: | School District:
DSA File Number: | Increment Number: | Date Created: 2022-07-16 08:55:22

2019 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	GE – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	LOR – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
	PI – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
Test – Indicates that a test is required	SI – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Application Number: 04-121376 | School Name: | School District:
DSA File Number: | Increment Number: | Date Created: 2022-07-16 08:55:22

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

	1. GENERAL:	Table 1705A.6		
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	See Notes	PI	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

	2. SOIL COMPACTION AND FILL:	Table 1705A.6		
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	b. Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

	3. DRIVEN DEEP FOUNDATIONS (PILES):	Table 1705A.7

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Application Number: 04-121376 | School Name: | School District:
DSA File Number: | Increment Number: | Date Created: 2022-07-16 08:55:22

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify pile materials, sizes and lengths comply with the requirements.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	b. Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	* Under the supervision of the geotechnical engineer.
☐	c. Inspect driving operations and maintain complete and accurate records for each pile.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	d. Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	e. Steel piles.	Provide tests and inspections per STEEL section below.		
☐	f. Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
☐	g. For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	*	*	* As defined on drawings or specifications.

	4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):	Table 1705A.8		
	Test or Special Inspection	Type	Performed By	Code References and Notes

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Application Number: 04-121376 | School Name: | School District:
DSA File Number: | Increment Number: | Date Created: 2022-07-16 08:55:22

☑	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	b. Verify pier locations, diameters, plumbness and lengths.Record concrete or grout volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
☑	c. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

	5. RETAINING WALLS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Placement, compaction and inspection of backfill.	Continuous	GE*	1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See Section 2 above).
☐	b. Placement of soil reinforcement and/or drainage devices.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	c. Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. See DSA IR 16-3.
☐	d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
☐	e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

	6. OTHER SOILS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Application Number: 04-121376 | School Name: | School District:
DSA File Number: | Increment Number: | Date Created: 2022-07-16 08:55:22

☐	a. Soil Improvements	Test	GE*	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS for final acceptance. * By geotechnical engineer or his or her qualified representative.
☐	b. Inspection of Soil Improvements	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
☐	c.			

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13
Application Number: 04-121376 | School Name: | School District:
DSA File Number: | Increment Number: | Date Created: 2022-07-16 08:55:22

	7. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	Type	Performed By	Code References and Notes
Material Verification and Testing:				
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identifiy, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-14 Section 26.6.1.2; DSA IR 17-10. (See Appendix for exemptions.)
☑	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-14 Sections 26.5 & 26.12.
☑	d. Test concrete (f'c).	Test	LOR	1905A.1.15; ACI 318-14 Section 26.12.
Inspection:				
☑	e. Batch plant inspection: Eliminated	See Notes	SI	Default of 'Continuous' per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. (See Appendix for exemptions.)
☐	f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category 19.1(d) & (e) and/or 19.2(g) & (h) below.		

	8. PRESTRESSED / POST-TENSIONED CONCRETE (in addition to Cast-in-Place Concrete tests and inspections):

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13
Application Number: 04-121376 | School Name: | School District:
DSA File Number: | Increment Number: | Date Created: 2022-07-16 08:55:22

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3
☐	b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.
☐	c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 11. Special inspector to verify specified concrete strength test prior to stressing.
☐	d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13

	9. PRECAST CONCRETE (in addition to Cast-in-Place Concrete tests and inspections):			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-14 Section 26.13.
☐	b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10. * May be performed by PI when specifically approved by DSA.

	10. SHOTCRETE (in addition to Cast-in-Place Concrete tests and inspections):			
	Test or Special Inspection	Type	Performed By	Code References and Notes

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Concrete), 2019 CBC

Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13
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☐	a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.19, Table 1705A.3 Item 7, 1908A.6, 1908A.7, 1908A.8, 1908A.9, 1908A.11, 1908A.12. See ACI 506.2-13 Section 3.4, ACI 506R-16.
☐	b. Sample and test shotcrete (f'c).	Test	LOR	1908A.5, 1908A.10.

	11. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
☐	b. Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix for exemptions.)

	12. OTHER CONCRETE:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16
Application Number: 04-121376 | School Name: | School District:
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	17. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
Material Verification and Testing:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	Periodic	*	Table 1705A.2.1 Item 3a–3c. 2202A.1; AISI S100-16 Section A3.1 & A3.2, AISI S240-15 Section A3 & A5, AISI S220-15 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	b. Test unidentified materials	Test	LOR	2202A.1.
☑	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
Inspection:				
☑	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).

	18. HIGH-STRENGTH BOLTS: RCSC 2014			
Material Verification and Testing of High-Strength Bolts, Nuts and Washers:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16
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☐	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.
Inspection of High-Strength Bolt Installation:				
☐	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☐	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * "Continuous" or "Periodic" depends on the tightening method used.

	19. WELDING:	1705A.2.5, Table 1705A.2.1 Items 4 & 5; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3 (See Appendix for exemptions.)		
Verification of Materials, Equipment, Welders, etc.:				
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	DSA IR 17-3.
☑	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
☑	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16
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	19.1 SHOP WELDING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	b. Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1; AISC 360-16 (and AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
☐	d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

	19.2 FIELD WELDING:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1–4; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16
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☐	c. Inspect end-welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1; DSA IR 17-3.
☐	d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360-16 (AISC 341-16 as applicable); AWS D1.3; DSA IR 17-3.
☐	e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5; AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240-15 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
☐	f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1; AISC 360-16 (AISC 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
☐	g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
☐	h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

	20. NONDESTRUCTIVE TESTING: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16
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☐	b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	c.	Test	LOR	

	21. STEEL JOISTS AND TRUSSES: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

	22. SPRAY APPLIED FIRE-PROOFING: 1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	Periodic	SI	1705A.14.
☐	b. Test bond strength.	Test	LOR	1705A.14.6.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (Steel and Aluminum), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16
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☐	c. Test density.	Test	LOR	1705A.14.5.

	23. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a. Anchor Bolts and Anchor Rods	Test	LOR	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	b. Threaded rod not used for foundation anchorage.	Test	LOR	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	Other Steel			
	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	a.			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-121376 | School Name: | School District:
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Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall be identified on the approved construction documents. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
☐	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding") given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
☑	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-121376 | School Name: | School District:
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☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	Welding:
☐	1. Solid-clad and open-mesh gates with maximum leaf span or rolling section for rolling gates of 10' and apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).
☐	5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 of listing above).

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number: 04-121376 | School Name: | School District:
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☐	6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections 19, 19.1 and/or 19.2 located in the Steel/Aluminum category).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2019 CBC

Application Number: 04-121376 | School Name: | School District:
DSA File Number: | Increment Number: | Date Created: 2022-07-16 08:55:22

Name of Architect or Engineer in general responsible charge:

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date:

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

DSA STAMP

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

Application Number: 04-121376 | School Name: | School District:
DSA File Number: | Increment Number: | Date Created: 2022-07-16 08:55:22

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

NOTES

1. THE EXAMPLE FORM DSA-103(s) SHOWN ON THIS SHEET ARE FOR ILLUSTRATION PURPOSES ONLY. A FORM DSA-103 IS TO BE FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND ALL EXAMPLE DSA-103(s) ARE TO BE CROSSED OUT ON THIS DRAWING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

rea architect
RON EDWARDS

Architecture
7400 Pedrick Court
Bakersfield, CA 93313
(661) 394-0053
ron@rearchitect.net

LICENSED ARCHITECT RONALD W. EDWARDS C 25192 REN 12-31-23 STATE OF CALIFORNIA

MANUFACTURER:

CUSTOM CANOPIES INC.
11815 BURKE STREET

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

PRE-CHECK PC DOCUMENT
CODE: 2019 CBC
A separate application for construction is required

PC APPROVAL STAMP:

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121376 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2022

PRECHECK FABRIC SHADE STRUCTURE

T&I GUIDELINE

Project # 22-029
Drawn By RWE
Date 7-12-22

A002

CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE 2019 C.B.C. AND THE A.C.I. 318–14 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".

2. SLAB AND FOUNDATION CONCRETE SHALL BE 150 P.C.F. HARDROCK, MIXED PER A.S.T.M. C–94, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 P.S.I. AT 28 DAY. MAX. SLUMP TO BE 4" ± 1" OF W/C RATIO ≤ .45

3. THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1 INCH.

4. CEMENT SHALL CONFORM TO A.S.T.M.. C–150, TYPE V, LOW ALKALI. AGGREGATES FOR NORMAL WEIGHT SHALL CONFORM TO A.S.T.M. C–33.

5. ADMIXTURES AND COLORS (EXCEPT AS NOTED HEREIN) SHALL NOT BE USED UNLESS SUBSTANTIATING DATA IS SUBMITTED TO AND ACCEPTED BY THE ENGINEER AND ARCHITECT OF RECORD AND DSA.

6. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. THE MIX DESIGNS SHALL CONFORM TO ACI 318–14 SECTION 26.4.3. UNLESS NOTED OTHERWISE.

7. NON–STRUCTURAL STEEL EMBEDDED IN CONCRETE SHALL BE GALVANIZED OR PAINTED. ALL DAMAGED GALVANIZED AREAS SHALL BE REPAIRED PRIOR TO EMBEDMENT.

8. READY MIXED CONCRETE SHALL CONFORM TO (A.S.T.M. C–94).

9. PLACEMENT OF CONCRETE SHALL CONFORM THE 2019 C.B.C. AND THE TO A.C.I. 304. CLEAN AND ROUGHEN A FULL AMPLITUDE OF ¼" BY REMOVING THE ENTIRE SURFACE AND EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE MORTAR MATRIX AGAINST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE POURED.

10. ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FORM FINISH USING B–B PLYFORM, CLASS I, EXT–A.P.A. PLYWOOD.

11. ALL SLABS SHALL HAVE A TROWELED FINISH EXCEPT AS NOTED ON THE DRAWINGS.

12. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.

13. IF THE CONTRACTOR DESIRES TO MAKE ANY CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THESE DRAWINGS, HE SHALL SUBMIT DETAILS OF CHANGES TO THE ENGINEER OF RECORD FOR REVIEW BEFORE STARTING WORK AND THE ENGINEER OF RECORD TO OBTAIN DSA APPROVAL PRIOR TO STARTING WORK.

14. NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOUNDATION STEEL OFF THE GROUND.

15. PROVIDE 1/2 INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS, U.N.O.

16. MINIMUM CONCRETE COVERAGES

FOOTINGS CAST AGAINST EARTH	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER	2"

17. CONCRETE CURING:
SLAB AND FDN; TYPICALLY REQUIRED FOR 10 DAYS TO ACHIEVE A MINIMUM OF 3000 PSI STRENGTH PRIOR TO INSTALLATION OF OTHER MAJOR STRUCTURAL COMPONENTS.

FOUNDATION:

1. THIS P.C. IS DESIGN TO THE C.B.C. MINIMUM. WHERE SOIL REPORT IS AVAILABLE; ATTACH ONE COPY OF SOILS REPORT TO THE APPROVED SET OF CONSTRUCTION DOCUMENTS. SOILS REPORT SHALL BE PART OF THESE NOTES. PRIOR TO THE POURING OF CONCRETE AND PRIOR TO THE CONTRACTOR REQUESTING A DSA FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE THE FOOTING EXCAVATIONS. HE SHALL POST NOTICE ON THE JOB SITE AND ADVISE THE DSA INSPECTOR IN WRITING THAT THE WORK SO INSPECTED MEETS THE CONDITIONS OF THE REPORT. A WRITTEN CERTIFICATION TO VERIFY THAT:

   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOIL REPORT.
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT.

2. SOIL REMOVAL AND RECOMPACTION SHALL BE DONE PER SOILS REPORT RECOMMENDATIONS UNDER GEOTECHNICAL ENGINEER'S SUPERVISION AND INSPECTION.

3. TYPE OF FOOTING:
   A. SHALLOW FOOTING SYSTEM MINIMUM EMBEDMENT 18" BELOW LOWEST ADJACENT GRADE.
   DESIGN SOIL PRESSURE:

FOOTING TYPE	STATIC BEARING PRESSURE
SPREAD FOOTING	1,500 psf
CONTINUOUS FOOTING	1,500 psf
LATERAL BEARING	100 pcf*

* MAY BE DOUBLED PER SECTION 1806A.3.4

4. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.

5. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING. DAMAGE CAUSED AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

6. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN TEMPORARY EXCAVATIONS.

7. ALL PLANTERS IN CLOSE PROXIMITY TO THE STRUCTURE SHALL HAVE ADEQUATE DRAINAGE OF SURFACE WATER TO PREVENT SATURATION OF SOIL UNDER FOUNDATION.

8. 2019 C.B.C. SEISMIC SITE CLASS A, B, C, D + D–DEAFAULT

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE C.B.C., AND THE "MANUAL OF STANDARD PRACTICE" BY THE C.R.S.I.

2. REINFORCING BARS SHALL CONFORM TO A.S.T.M. A–615, DEFORMED GRADE 60. REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO A.S.T.M. A–706, DEFORMED GRADE 60.

3. WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH A.S.T.M. A–706 WITH LOW HYDROGEN ELECTRODES AND SHALL CONFORM TO THE STRUCTURAL WELDING CODE REINFORCING STEEL BY A.N.S.I. / A.W.S. D1.4. MINIMUM TENSILE STRENGTH OF WELD METAL SHALL BE 90 K.S.I. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.

4. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

5. REINFORCING SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS.

6. SLAB ON GRADE REINFORCING SHALL BE POSITIONED AT MID–DEPTH, UNLESS NOTED OTHERWISE.

7. PROVIDE #3 SPACER TIES AT 2'–6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING BARS IN PLACE, U.N.O.

8. PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED. A.C.I. #318–14

GENERAL NOTES:

1. THE PROJECT SPECIFICATIONS SHALL BE PART OF THE CONTRACT DOCUMENTS.

2. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.

3. THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO PROCEEDING.

4. ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE CALIFORNIA BUILDING CODE (2019 EDITION C.B.C.), RELATED CALIFORNIA BUILDING CODE STANDARDS, AND ANY A.S.T.M. SPECIFICATIONS ON WHICH THESE STANDARDS ARE BASED. WHERE CONFLICT BETWEEN BUILDING CODES AND SPECIFICATIONS OCCURS, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.

5. ALL A.S.T.M. DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATION, AS OF THE DATE OF THESE DRAWINGS.

6. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.

7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

8. THE STRUCTURAL DRAWINGS SHOW ONLY THE BASIC STRUCTURAL REQUIREMENTS. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS THAT OCCUR PER SPECIFIC PLANS FOR NON–STRUCTURAL ITEMS, SUCH AS:
   A. SIZE AND LOCATION OF ALL OPENINGS.
   B. SIZE AND LOCATION OF ALL NON–BEARING WALLS.
   C. SIZE AND LOCATION OF ALL CONCRETE CURBS, WALKS, ROOF AND FLOOR DRAINS, SLOPES, DEPRESSED SLAB AREAS, ETC.
   D. FLOOR, ROOF AND WALL FINISHES.
   E. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

9. THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.

10. NEITHER THE OWNER NOR THE ARCHITECT/STRUCTURAL ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE SAFETY ITEMS.

11. SATISFACTORY EXECUTION OF CONSTRUCTION IS DEPENDENT UPON CONFORMANCE WITH THE INTENT OF THESE DRAWINGS. OWNER OR CONTRACTOR SHALL RETAIN A CALIFORNIA LICENSED STRUCTURAL ENGINEER DURING CONSTRUCTION TO OBSERVE THE CONSTRUCTION AND FILE A REPORT (DSA 6AE) STATING THE "THE CONSTRUCTION HAS, IN EVERY MATERIAL RESPECT, BEEN PERFORMED IN COMPLIANCE WITH THE DSA APPROVED DOCUMENTS".

12. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD FOR EACH PARTICULAR LEVEL. WHEN WEIGHT OF MATERIALS OR EQUIPMENT MAY EXCEED DESIGN LOAD, STRUCTURAL SYSTEMS SHALL BE SHORED.

13. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK. THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.

DESIGN BASIS:

CODE: 2019 C.B.C. (CALIFORNIA BUILDING CODE CCR, TITLE 24, PART 2)

GRAVITY LOADS:

1. ROOF LIVE LOAD 5 P.S.F. (REDUCIBLE)
   ROOF DEAD LOAD 1.5 P.S.F. (MAX.)

2. SNOW LOAD Pg 5.0 P.S.F.

LATERAL LOADS:

1. SEISMIC DESIGN

☐ SITE CLASS = A,B,D (GEOTECH REPORT IS REQUIRED TO SUPPORT THESE SITE CLASSES)

RISK CATEGORY = II
REDUNDANCY (ρ) = 1

S_s = 3.6
S_{DS} = 2.400 Sds = Sms x 2/3
S_1 = 0.75
S_{D1} = 0.850 Sds = Sms x 2/3

☐ SITE CLASS C (GEOTECH REPORT IS REQUIRED TO SUPPORT THIS SITE CLASS)

☒ SITE CLASS D DEFAULT

RISK CATEGORY = II
REDUNDANCY (ρ) = 1

S_s = 3
S_{Ds} = 2.400 Sds = Sms x 2/3
S_1 = 0.75
S_{D1} = 0.700 Sds = Sms x 2/3

CANOPIES OCCUPANCY = II

SPECIAL STEEL CANTILEVER COLUMNS

SEISMIC DESIGN CATEGORY = D (ASCE 7–16 TABLE 11.6.1 AND TABLE 11.6.2)
I_e = 1.000
R = 2.500
C_s = Sds/(R/Ie) (LRFD) = 0.960
ANALYSIS METHOD = EQUIVALENT LATERAL FORCE ANALYSIS

2. WIND DESIGN
   ANALYSIS METHOD = DIRECTIONAL PROCEDURE (OPEN STRUCTURE)
   V = 100 M.P.H. BASIC WIND SPEED, ASCE 7–16 FIGURE 26.5.1–B
   EXPOSURE "C"
   K_{zt} = 1.0
   RISK CATEGORY = II
   STRUCTURE IS DESIGN FOR CLEAR AND OBSTRUCTED WIND FLOW

FLOOD HAZARD: DESIGN DOES NOT ACCOUNT FOR FLOOD HAZARD

SITE SPECIFIC GEOTECHNICAL STUDY IS NOT REQUIRED FOR

SITE CLASS "D–DEFAULT"

THIS PC PROJECT IS NOT DESINGNED TO INCLUDE WEIGHT OF SPRINKLERS

BUILDING SEPARATION REQUIREMENT:

MINIMUM CLEAR DISTANCE REQUIRED BETWEEN EXISTING SITE STRUCTURE/ADJACENT SITE STRUCTURE AND SHADE STRUCTURE IS TO BE AT LEAST 12".
MINIMUM CLEAR DISTANCE REQUIRED BETWEEN FOUNDATIONS OF EXISTING SITE STRUCTURE/ADJACENT SITE STRUCTURE AND SHADE STRUCTURE IS TO BE AT LEAST 10'.

SEISMIC BASE SHEAR

BUILDING CONFIGURATION	BASE SHEAR (KIP)
20'x10'	0.8K
20'x15'	0.85K
20'x20'	1.1K
25'x25	1.1K
30'x20'	1.51K
30'x25'	1.9K
30'x30'	2.58K
36'x18'	2.1K
40'x20'	2.4K
40'x30'	4.36K

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PRE-CHECK PC DOCUMENT
CODE: 2019 CBC
A separate application for construction is required

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APP: 04-121378 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2022

PRECHECK FABRIC SHADE STRUCTURE

MANUFACTURER:

Sheet Title
General Notes and Typical details

Project #	Sheet
22-029	S1.1
Drawn By	
Date 7-12-22	

STRUCTURAL OBSERVATION:

1. PER C.B.C. CHAPTER 17A, 1704A.6 THE OWNER SHALL EMPLOY A LICENSED ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR HIS DESIGNATED ENGINEER OR ARCHITECT TO MAKE SITE VISITS TO OBSERVE GENERAL COMPLIANCE WITH THE APPROVED STRUCTURAL PLANS, SPECIFICATIONS AND CHANGE ORDERS. THE ENGINEER OR ARCHITECT SHALL SUBMIT A STATEMENT IN WRITING TO THE BUILDING OFFICIAL STATING THAT THE SITE VISIT HAS BEEN MADE AND THAT ANY DEFICIENCIES NOTED HAVE BEEN CORRECTED.

2. IN ACCORDANCE WITH SECT. 4–333 (a) OF TITLE 24, PART 1, STRUCTURAL OBSERVATION SHALL INCLUDE AND OCCUR AT THE FOLLOWING STAGES:
   A. OBSERVATION AT THE SITE PRIOR TO PLACING CONCRETE.
   B. OBSERVATION OF THE BUILDING DURING FABRICATION AFTER THE MAJORITY OF STRUCTURAL ITEMS ARE IN PLACE.
   C. OBSERVATION OF THE COMPLETED STRUCTURE PRIOR TO BEING COVERED FINISHES.

3. AT COMPLETITION OF IN–PLANT MANUFACTURING THE INDIVIDUAL ACCEPTING RESPONSIBILITY FOR OBSERVATION OF IN–PLANT MANUFACTURING SHALL SIGN THE VERIFIED REPORT, DSA 152–IPI (IN–PLANT INSPECTOR VERIFIED REPORT).

4. OBSERVATION OF THE ON SITE CONSTRUCTION INCLUDES THE SCOPE OF WORK INDICATED ON THE DSA APPROVED MODULAR BUILDING PLANS AND SPECS.

5. INTERIM AND FINAL VERIFIED REPORTS ARE REQUIRED DURING, AND AT THE COMPLETION OF, ON SITE CONSTRUCTION AND INSTALLATION USING FORM DSA 6–AE (ARCHITECT/ENGINEER VERIFIED REPORT).

6. STRUCTURAL TESTING & SPECIAL INSPECTIONS: SEE APPROVED DSA–103 FORM FOR STRUCTURAL TESTING & INSPECTIONS.

WELDING

1. MALLEABLE WIRE ROPE CLIPS
   - 1.A. CABLE CLIPS SHALL BE FORGED STEEL PER FEDERAL INSPECTION FF–C–40 TYPE 1, CLASS 2 INSTALLED WITH THE U–BOLT ON THE CABLE DEAD END (SEE SPECIFICATION SHEET ON THIS SHEET.)
   - 1.B. BOLT TORQUE FOR $\frac{1}{4}$"ø CABLE CLIPS = 15 lb–ft, FOR $\frac{5}{26}$"ø CABLE CLIPS = 30 lb–ft.
2. BOLT HOLES
   - 2.A. BOLT HOLE DIAMETERS SHALL BE $\frac{1}{16}$" LARGER THAN THE BOLT DIAMETER.
   - 2.B. ALL BOLTS SHALL BE INSTALLED WITH LOCK WASHERS.
3. CORROSION PROTECTION
   - 3.A. STEEL TUBE ROOF MEMBER SHALL BE TRIPLE COATED USING IN–LINE ZINC ELECTROPLATING PER ASTM E–6 AND THEN POWDER COATED WITH A TGIC POLYESTER TOP COAT.
   - 3.B. STEEL PIPE COLUMNS SHALL BE POWDER COATED WITH A TGIC POLYESTER PRIMER AND TOP COAT.
   - 3.C. ZINC SPELTER CONFORMS TO ASTM B–6 HIGH GRADE ZINC.
4. FABRIC MATERIAL
   - 4.A. FABRIC MATERIAL SHALL BE EXTRA BLOCK, OR COMMERICAL NINETYFIVE 340R FABRIC.
   - 4.B. THE FABRIC SHALL BE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE POLYMER.
   - 4.C. MIN. WEIGHT – 8.3 oz/sq.yd
   - 4.D. MIN. BREAKING STRENGTH PER ASTM D 5034: WARP = 165 lbs., WEFT = 260 lbs.
   - 4.E. MAX. ELONGATION: WARP = 115%, WEFT = 76%.
   - 4.F. MIN. TEAR STRENGTH PER ASTM D 2261: WARP = 26 lbs., WEFT = 26 lbs.
   - 4.G. FIRE RETARDANT RATING PER CSTM – TITLE 19, (REGISTRATION #: ALNET EXTRA BLOCK SHADECLOTH – F94501)
   - 4.H. THE FABRIC SHALL BE CAPABLE OF MAINTAINING 80% OF IT'S TENSILE AND TEARING STRENGTH AFTER EXPOSURE TO A 313NM LIGHT SOURCE APPLIED FOR 500 HOURS AND WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS PER ASTM G53. THE FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE SAMPLES OF THE SAME MATERIAL SHALL BE MAINTAINED AT THE PROJECT SITE AND TESTED TO SHOW COMPLIANCE WITH ASTM D 5034 AND D 2261.
   - 4.I. THE FABRIC SHALL MAINTAIN AT LEAST 50% OF IT'S ORIGINAL BREAKING STRENGTH AFTER 5 YEARS OF EXPOSURE TO SUNLIGHT.
5. STANDARD NOTES
   - 5.A. ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
   - 5.B. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4–338, PART 1, TITLE 24 (CCR)
   - 5.C. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRCT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4–342, PART 1, TITLE 24 (CCR).
   - 5.D. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
   - 5.E. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON–COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH THE TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD) OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA.
   - 5.F. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

COLD FORMED STRUCTURAL STEEL:

1. ALL LIGHT GAUGE METAL FRAMING SHALL BE THE TYPE, SIZE AND GAUGE AS SHOWN ON THE PLANS AND BE FABRICATED AND ERECTED IN ACCORDANCE WITH 2016 A.I.S.I. S100 SPECIFICATIONS. WITH SUPPLEMENT AND 2019 CBC SECTIONS 2210A, 2211A, & 2213A.

2. ALL GALVANIZED TRACK BRIDGING, END ENCLOSURES AND ACCESSORIES SHALL CONFORM TO A.S.T.M. A–1011 GRADE A (Fy = 33 K.S.I.).

3. STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 OR A153 CLASS D OR PAINTED WITH ZINC–RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM. COLD FORMED STEEL MEMBERS SHALL BE 5 PORCENT ALUMINUM–ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AMERICAN IRON AND STEEL INSTITUTE (AISI) S240 TABLE A4–1, CP 90 COATING DESIGNATION.

4. CARBON SHEET STEEL MUST MEET THE MINIMUM REQUIREMENTS OF A.S.T.M. A1011 GRADE 50 K.S.I. FOR 12,14 AND 16 GAUGE AND GRADE 33 K.S.I. FOR 18 GAUGE AND LIGHTER MEMBERS, CARBON SHEET STEEL PRODUCTS MUST BE THOROUGHLY COATED WITH A RUST INHIBITIVE PAINT.

5. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.

6. FASTENINGS OF COMPONENTS SHALL BE WITH ASTM C1513 SELF–DRILLING SCREWS OR WELDING U.N.O. SCREWS OR WELDS SHALL BE OF SUFFICIENT SIZE TO INSURE THE STRENGTH OF THE CONNECTION. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC–RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT.

7. ALL SHEET METAL SCREWS SHALL COMPLY W/ICC ESR–1976 OR APPROVED EQUAL.

8. ALL WELDING OR MATERIAL LESS THAN 0.18 INCHES IN THICKNESS SHALL BE MADE IN ACCORDANCE WITH THE A.W.S. D1.3 WELDERS AND WELDING PROCEDURES AND SHALL BE QUALIFIED AS SPECIFIED IN A.W.S. D1.3.

9. TOUCH UP COLD GALVANIZING USING ZRC CHEMICAL PRODUCTS CO., ZRC COLD GALVANIZING COMPOUND OR EQUAL.

10.

COATING CLASSIFICATION	COATING DESIGNATOR	MINIMUM COATING REQUIREMENTS			
		ZINK COATED[A] oz/ft² (g/m²)	ZINK Iron[B] oz/ft² (g/m²)	55% AL–Zinc[C] oz/ft² (g/m²)	Zinc–5%[D] oz/ft² (g/m²)
METALLIC COATED	CP 60	G60 [Z180]	G60 [Z180]	AZ50 [AZM150]	GF30 [ZGF90]
	CP 90	G90 [Z275]	Not Applicable	AZ50 [AZM150]	GF45 [ZGF135]
PAINTED METALLIC	PM	The metallic coated substrate shall meet the requirements of metallic coated. In addition, the paint film shall have a minimum thickness of 0.5 mil per side (primer plus topcoat) with a minimum primer thickness of 0.1 mil per side.			

[A] Zinc–coated steel sheet as described in ASTM A653/A653M.
[B] Zinc–iron alloy–coated steel sheet as described in ASTM A653/A653M.
[C] 55% Alumunum–zinc alloy–coated steel sheet as described in ASTM A792/A792M.
[D] Zinc–5% aluminum alloy–coated steel sheet as descrbed in ASTM A875/875.
[E] In accordance with the requirements of ASTM A1003/A1003M.

STEEL CABLES:

1. ALL CABLE STEEL TO BE ASTM A1023, 7 X 19 CLASS IWRC, (TYPICALLY REFERRED TO AIRCRAFT CABLE).
2. CABLES SHALL BE GALVANIZED (CLASS A ZINC COATING) OR STAINLESS STEEL.
3. NIMINAL CABLE STRENGTH:
   1/4" DIA. = 2.18k
   5/16" DIA. = 3.07k
   3/8" DIA. SS = 4.09k
   3/8" DIA. GALV. = 4.91k
4. MAX. PRETENSION LOAD:
   1/4" DIA. = 0.10k
   5/16" DIA. = 0.15k
   3/8" DIA. = 0.20k
5. FOR CABLE (ROPE CLIPS) SEE SHEET A001

WELDING:

1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY CODE D1.1.–15, AND CFC.

2. ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS.

3. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC PROCESS USING APPROVED ELECTRODES PER A.W.S. SPECIFICATIONS E70XX (LOW HYDROGEN ELECTRODES).

4. ALL WELDS SHALL HAVE A WELD CONTROLLED SEQUENCE AND TECHNIQUE IN ORDER TO MINIMIZE SHRINKAGE, STRESSES AND DISTORTION.

5. ALL ELECTRODES FILLER MATERIAL SHALL BE A MINIMUM OF E70XX.

6. WELDING OF SHEET METAL SHALL BE IN ACCORDANCE WITH A.W.S. D1.3.

7. SPECIAL INSPECTION IS REQUIRED FOR ALL WELDING.

8. ALL SHOP AND FIELD WELDING OF MOMENT CONNECTIONS OR MOMENT RESISTING FRAMES, AND ALL COLUMN SPLICE WELDS, SHALL BE TESTED AS PER C.B.C.
   A. ALL WELDS WITHIN MEMBERS DESIGNATED AS PART OF THE LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL CONFORM TO THE DETAILING, MATERIALS, WORKMANSHIP, TESTING AND INSPECTION REQUIREMENTS PER AWS D1.8 AND AISC 341–16, AND SHALL USE A FILLER METAL WITH A CHARPY V–NOTCH (CVN) TOUGHNESS OF 20 FT–LB AT 0° F.
   B. WHERE WELDS ARE DESIGNATED AS DEMAND CRITICAL, THEY SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CVN TOUGHNESS OF 20 FT–LB AT 20° F AND 40 FT–LB AT 70° F. SEE AWS D1.8 SECTION 6.3.6,
   C. WELDERS PERFORMING WELDING WITHIN THE "LFRS" SHALL BE QULIFIED IN ACCORDANCE WITH AWS D1.8 CHAPTER 5.

STEEL:

1. FABRICATION AND ERECTION TO CONFORM TO A.I.S.C. 360–16 "SPECIFICATION FOR THE STRUCTURAL STEEL BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" EXCEPT AS OTHERWISE SHOWN OR SPECIFIED.

2. QUALIFIED AND CERTIFIED WELDERS SHALL BE USED FOR ALL WELDING. ALL WELDING TO CONFORM TO THE LATEST ADOPTED EDITION OF THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE A.W.S. D1.1.

3. MATERIALS:

ANGLES, CHANNELS, MISC. STEEL	A.S.T.M. A36
MISCELLANEOUS PLATES	A.S.T.M. A–992 GRADE 50
STRUCTURAL STEEL PIPES (COLUMNS)	A.S.T.M. A53 TYPE E OR S, GRADE B
WELDING ELECTRODES	A.W.S. STRUCTURAL STEEL E70XX,
ANCHOR BOLTS	A.S.T.M. F–1554 GRADE 105
TYPICAL STEEL CONNECTION BOLTS	A307, A304SS
GALVANIZING	A.S.T.M. A–123
RUST–INHIBITING PRIMER	CC–M10
STEEL TUBING (HIPS, RIDGES AND BRACES MEMBERS)	A.S.T.M. A–500, GRADE C
	(HSS ROUND) (Fy = 46 K.S.I.)
	(HSS RECT) (Fy = 50 K.S.I.)

4. STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 AND ANCHOR BOLTS SHALL BE GALVANIZED WITH A153 CLASS D OR PAINTED WITH ZINC RICH PRIMER COAT, UNDERCOAT AND FINISH COAT OR EQUIVALENT PAINT SYSTEM.

5. CONNECTED MEMBERS SHALL BEAR ONLY UPON UNTHREADED PORTIONS OF BOLTS.

6. BURNING OF HOLES IS NOT ALLOWED.

7. INSPECTION OF WELDING SHALL CONFORM TO C.B.C. REQUIREMENTS (CHAPTER 17A).

8. THE STRUCTURAL STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION.

9. BOLT HOLES SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNLESS NOTED OTHERWISE.

10. ALL STRUCTURAL STEEL SURFACES TO RECEIVE SPRAY–APPLIED FIREPROOFING, OR TO BE ENCASED IN CONCRETE OR MASONRY, SHALL BE LEFT UNPAINTED.

11. STRUCTURAL STEEL SHALL BE DELIVERED TO THE JOB SITE FREE OF EXCESSIVE RUST, MILL SCALE, GREASE, ETC.

12. OPENINGS SHALL NOT BE PLACED IN STEEL MEMBERS UNLESS SPECIFICALLY DETAILED.

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PRECHECK FABRIC SHADE STRUCTURE

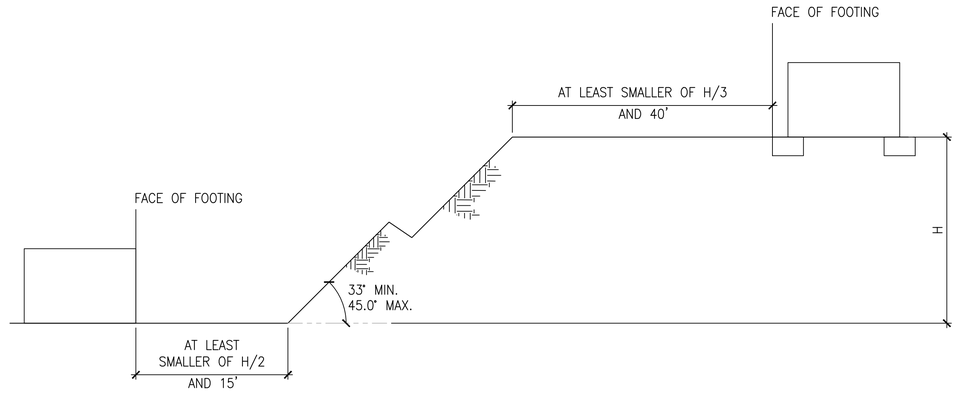
MANUFACTURER:

Sheet Title
General Notes and Typical details

Project # 22-029
Drawn By
Date 7-12-22
Sheet S1.2

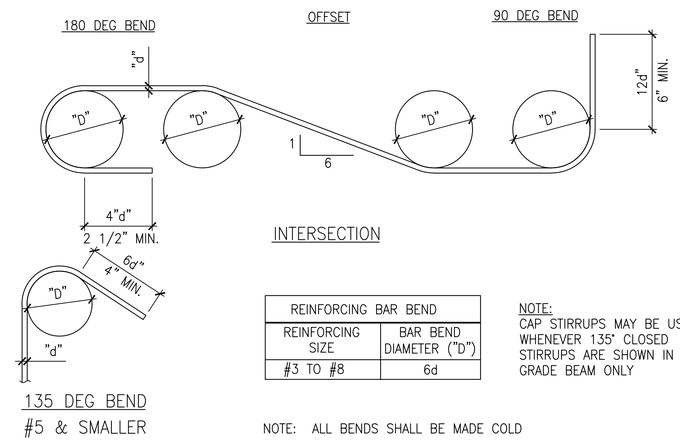
ABBREVIATIONS:

&	AND
@	AT
℄	CENTER LINE
ℙ	PLATE, PROPERTY LINE
A.B.	ANCHOR BOLT
ADJ	ADJACENT
A.F.F.	ABOVE FINISH FLOOR
ARCH'L	ARCHITECTURAL
BD	BOARD
BLD'G	BUILDING
BLK	BLOCK
BLK'G	BLOCKING
BLW	BELOW
BM	BEAM
B.N.	BOUNDARY NAIL/SCREW
BOT.	BOTTOM
BRG	BEARING
B.S.	BOTH SIDE
BTWN	BETWEEN
C.B.	CARRIAGE BOLT
C.F.	CUBIC FOOT
CHAM	CHAMFER
C.I.	CAST-IRON
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT
CLG	CEILING
CLK	CAULK
CLK'G	CAULKING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
CNTR	CENTER
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CNTRSNK	COUNTERSINK
d	PENNY
DBL	DOUBLE
DEP	DEPRESSED
DET	DETAIL
D.F.	DOUGLAS FIR
D.F.L.	DOUGLAS FIR/LARCH
DIA	DIAMETER
DIAG	DIAGONAL
DIAM.	DIMENSION
D.L.	DEAD LOAD
DN	DOWN
DIV	DIVISION
DR	DOOR
DWG	DRAWING
DWL	DOWEL
EA	EACH
E.F.	EACH FACE
EL.	ELEVATION
ELEV.	ELEVATION / ELEVATOR
EMBED	EMBEDMENT
E.N.	EDGE NAIL/SCREW
EQ.	EQUAL
EQUIP	EQUIPMENT
E.S.	EACH SIDE
E.W.	EACH WAY
EXIST'G	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F.D.	FLOOR DRAIN
FDN	FOUNDATION
F.F.	FINISH FLOOR
FIN.	FINISH
FLR.	FLOOR
F.N.	FIELD NAIL
F.O.	FACE OF
FRM'G	FRAMING
F.S.	FAR SIDE
FT	FEET / FOOT
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
G.I.	GALVANIZED IRON
GLB	GLU-LAMINATED BEAM
GRD	GRADE
GYP	GYPSUM
H.D.	HOLDOWN
HDR	HEADER
HGR	HANGER
HORIZ	HORIZONTAL
HRD	HARD
H.S.B.	HIGH STRENGTH BOLT
HT.	HEIGHT
HVAC	HEATING, VENTILATION, & AIR CONDITIONING
IN.	INCH
INSP.	INSPECTION / INSPECTOR
INT.	INTERIOR
JST	JOIST
JT	JOINT
KIPS	KILOPOUNDS (1,000 POUNDS)
K.O.	KNOCK OUT
LB	POUND
L.B.	LAG BOLT
L.F.	LINEAR FOOT
LG	LONG
L.L.	LIVE LOAD
L.L.H.	LONG LEG HORIZONTAL
L.L.V.	LONG LEG VERTICAL
L.S.	LAG SCREW
LT.	LIGHT
MAS	MASONRY
MAT.	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH'L	MECHANICAL
MEZZ.	MEZZANINE
MIN.	MINIMUM
M.H.	MANHOLE
MANUF.	MANUFACTURER
MTL.	METAL
N.S.	NEAR SIDE
N.I.C.	NOT IN CONTRACT
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.H.	OPPOSITE HAND
OPN'G	OPENING
OPP	OPPOSIDE
O.W.J.	OPEN WEB JOIST
P.C.	PRECAST
PERP.	PERPENDICULAR
PLYWD	PLYWOOD
PNL	PANEL
PREFAB	PREFABRICATED
P.S.F.	POUNDS PER SQUARE FOOT
P.S.I.	POUNDS PER SQUARE INCHES
PT	POINT
P.T.	PRESSURE TREATED
P.V.C.	POLYVINYL CHLORIDE
RAD	RADIUS
R.D.	ROOF DRAIN
REF.	REFERENCE
REINF.	REINFORCED / REINFORCING
REQ'D	REQUIRED
REV	REVISION
RF	ROOF
RFTR	RAFTER
R.H.	ROOF HATCH
RM	ROOM
R.O.	ROUGH OPENING
R.S.	ROUGH SAWN
SCHED.	SCHEDULE
SECT.	SECTION
S.F.	SQUARE FOOT
SHT	SHEET
SHT'G	SHEETING
SIM.	SIMILAR
S.M.S.	SHEET METAL SCREW
SPEC.	SPECIFICATION
SQ.	SQUARE
S.S.	STAINLESS STEEL
STAGG.	STAGGERED
STD	STANDARD
STIFF.	STIFFENER
STL.	STEEL
STRUCT'L	STRUCTURAL
STS	SELF TAPPING SCREW
SYM	SYMMETRICAL
SYS	SYSTEM
T & B	TOP AND BOTTOM
T & G	TONGUE AND GROOVE
TEMP	TEMPORARY
THK	THINK
THKN'D	THICKENED
THRU	THROUGH
T.L.	TOTAL LOAD
T.O.	TOP OF
T.S.G.	TAPERED STEEL GIRDER
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U.T.	ULTRASONIC TESTING
VERT.	VERTICAL
W/	WITH
W/O	WITHOUT
WD	WOOD
WIN	WINDOW
W.P.	WATERPROOF / WORK POINT
W.P.J.	WEAKENED PLANE JOINT
WT.	WEIGHT
W.W.F.	WELDED WIRE FABRIC
W.W.M.	WELDED WIRE MESH



SLOPE DETAIL

1



REINFORCING BAR BEND	
REINFORCING SIZE	BAR BEND DIAMETER ("D")
#3 TO #8	6d

NOTE:
CAP STIRRUPS MAY BE USED WHENEVER 135° CLOSED STIRRUPS ARE SHOWN IN GRADE BEAM ONLY

NOTE: ALL BENDS SHALL BE MADE COLD

TYP BAR BENT

2

3

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RYAN J. ORION
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APP: 03-122615 INC:
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CUSTOM CANOPIES INC.
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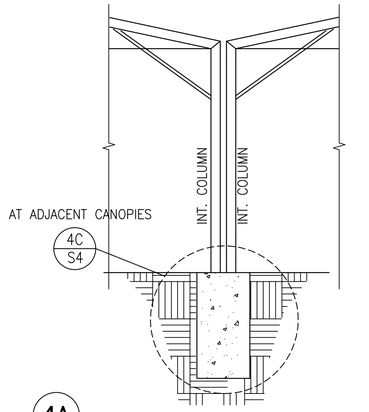
DATE: 11/01/2022

PRECHECK FABRIC SHADE STRUCTURE

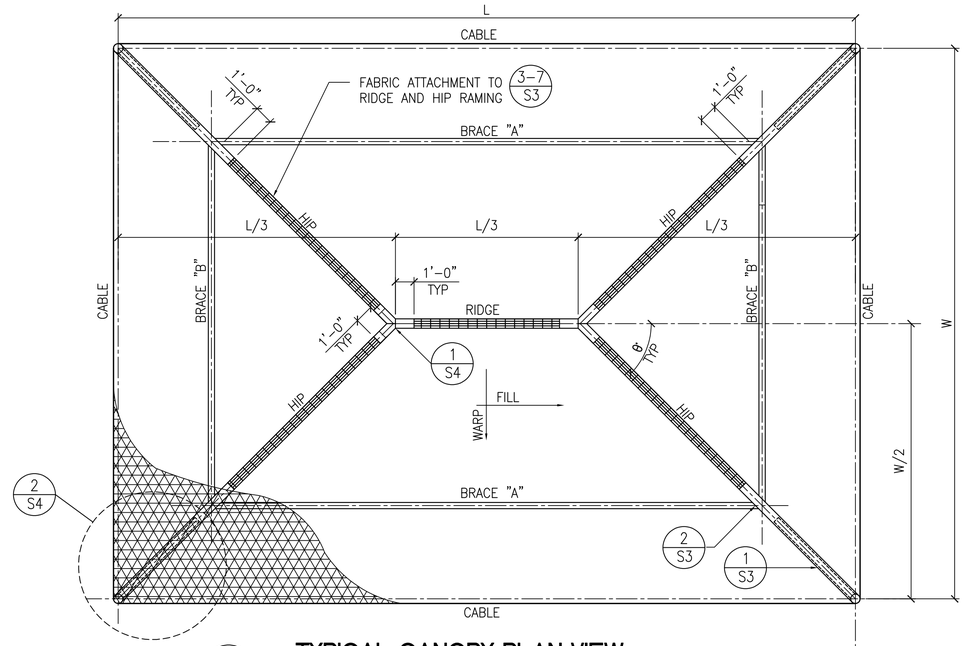
MANUFACTURER:

Sheet Title
General Notes and Typical details

Project # 22-029
Drawn By
Date 7-12-22
Sheet **S1.3**

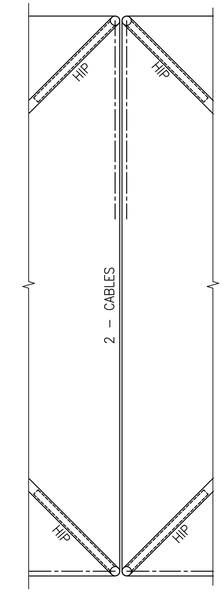


4A SCALE: NONE **(NON-CONJOINED INTERIOR COLUMN DETAIL)**



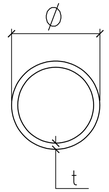
3 TYPICAL CANOPY PLAN VIEW

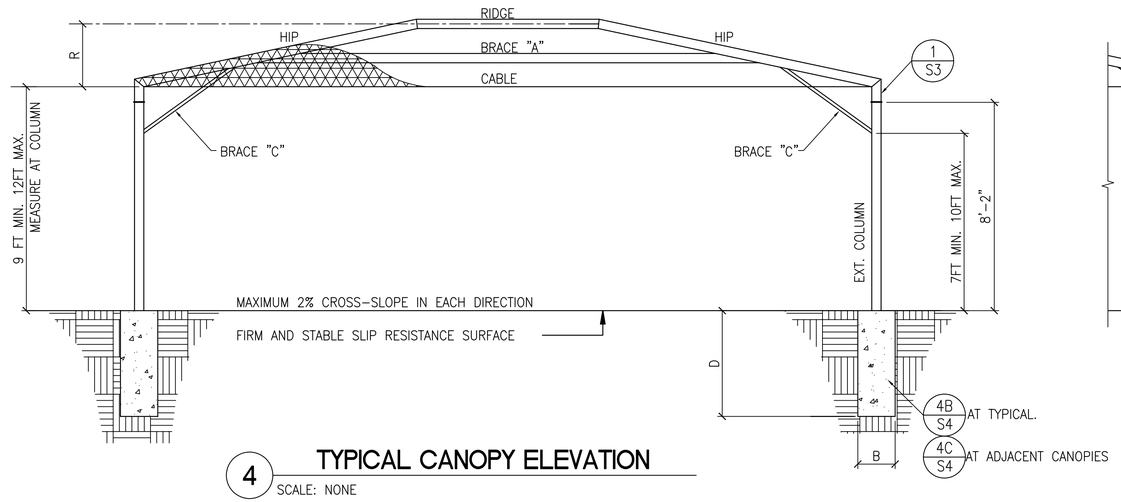
SCALE: NONE



3B **CONJOINED INTERIOR PLAN DETAIL**

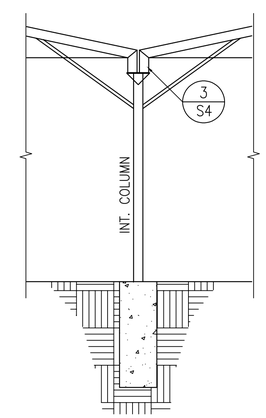
STRUCTURAL TUBE PROPERTIES						
SIZE	Ø	t des.	A	I	S	GAGE REFERENCE
1 3/4"Ø X .109	1.75"	0.101"	.523in2	.179in4	.204in3	12GA
2"Ø X .095	2"	0.088"	.529in2	.242in4	.242in3	13GA
2 7/8"Ø X 0.109	2.875"	0.101"	.880in2	.848in4	.383in3	12GA
2 7/8"Ø X .120	2.875"	0.112"	.972in2	.929in4	.646in3	11GA
3"Ø X .120	3"	0.112"	1.016in2	1.016in4	.707in3	11GA
3 1/2"Ø X .120	3.5"	0.112"	1.192in2	1.712in4	.978in3	11GA
4"Ø X .120	4"	0.112"	1.368in2	2.587in4	1.294in3	7GA
4 1/2"Ø X .120	4.5"	0.112"	1.544in2	3.718in4	1.653in3	11GA
4 1/2"Ø X .180	4.5"	.167"	2.273in2	5.343in4	2.375in3	7GA
5"Ø X .120	5"	0.112"	1.720in2	5.139in4	2.056in3	11GA
5"Ø X .180	5"	.167"	2.536in2	7.412in4	2.965in3	7GA
5" Ø x 0.25"	5"	0.25"	3.736in2	10.55in3	4.22in3	3GA





4 TYPICAL CANOPY ELEVATION

SCALE: NONE



4B **CONJOINED INTERIOR COLUMN DETAIL**

CANOPY OPTIONS																		
L	W	R	θ	Ext. Col.	D"N"	D"C"	B	Int. Col.	D"N"	D"C"	B	HIP	RIDGE	BRACE A	BRACE B	CABLE	BOLT A	BOLT B	BOLT C
20'	10'	1.77'	36.9°	3" STD.	3.50'	2.75'	1.5'	3" STD.	4.50'	3.50'	2.0'	2 7/8"Ø x .109	2 7/8"Ø x .109	2 7/8"Ø x .109	2"Ø x .095	1/2"Ø	1/2"Ø	3/8"Ø	1/2"Ø
20'	15'	2.13'	48.4°	3" STD.	3.75'	3.00'	1.5'	3" STD.	4.75'	3.75'	2.0'	2 7/8"Ø x .109	2 7/8"Ø x .109	2 7/8"Ø x .109	2"Ø x .095	1/2"Ø	1/2"Ø	3/8"Ø	1/2"Ø
20'	20'	2.55'	56.3°	3" STD.	4.00'	3.25'	1.5'	3" STD.	5.00'	4.00'	2.0'	3 1/2"Ø x .120	3 1/2"Ø x .120	2 7/8"Ø x .109	2 7/8"Ø x .109	1/4"Ø	1/2"Ø	3/8"Ø	1/2"Ø
25'	25'	3.79'	56.3°	4" STD.	4.50'	3.50'	1.5'	4" STD.	5.75'	4.50'	2.0'	4 "Ø x .120	4 1/2"Ø x .120	4 1/2"Ø x .120	3 1/2"Ø x .120	5/16"Ø	3/4"Ø	(2)3/8"Ø	5/8"Ø
30'	20'	3.01'	45.0°	3½" STD.	4.50'	3.50'	1.5'	3½" STD.	5.75'	4.50'	2.0'	4"Ø x .120	4"Ø x .120	4"Ø x .120	2 7/8"Ø x .120	5/16"Ø	5/8"Ø	3/8"Ø	5/8"Ø
30'	25'	3.40'	51.3°	4" STD.	5.00'	4.00'	1.5'	4" STD.	6.25'	5.00'	2.0'	4 1/2"Ø x .120	4 1/2"Ø x .120	4 1/2"Ø x .120	3 1/2"Ø x .120	3/8"Ø	3/4"Ø	(2)3/8"Ø	5/8"Ø
36'	18'	3.19'	36.9°	4" STD.	5.00'	4.00'	1.5'	4" STD.	6.50'	5.00'	2.0'	3 1/2"Ø x .120	3 1/2"Ø x .120	3 1/2"Ø x .120	2 7/8"Ø x .120	5/16"Ø	5/8"Ø	3/8"Ø	5/8"Ø
40'	20'	3.54'	36.9°	4" STD.	5.50'	4.50'	1.5'	4" STD.	7.00'	5.50'	2.0'	4 1/2"Ø x .180	4 1/2"Ø x .120	4 1/2"Ø x .120	3 1/2"Ø x .120	3/8"Ø	3/4"Ø	(2)3/8"Ø	3/4"Ø
30'	30'	3.83'	56.3°	5" STD.	5.75'	4.75'	1.5'	5" STD.	7.25'	5.75'	2.0'	5"Ø x .180	5"Ø x .120	4.5"Ø x .120	3.5"Ø x .120	3/8"Ø	3/4"Ø	(2)3/8"Ø	3/4"Ø
40'	30'	4.27'	48.4°	5" STD.	6.00'	4.50'	2.00'	5" STD.	8.00'	5.50'	2.0'	5"Ø x .250	5"Ø x .120	5"Ø x .250	5"Ø x .120	3/8"Ø	3/4"Ø	(2)3/8"Ø	3/4"Ø

CABLE FOR 40'X30' CANOPY MUST BE GALVANIZED TYPE, NOT STAINLESS

TABLE NOTES:

n = NONCONSTRAINED CONDITION
(SEE DETAIL 4B ON SHEET S4)
c = CONSTRAINED CONDITION
(SEE DETAIL 4A ON SHEET S4)
DIMENSIONS "L" OR "W" MAY BE
REPEATED IN ONE DIRECTION ONLY.
"TYPICAL STEEL BOLTS PER SHEET S1.2"

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STATE OF CALIFORNIA

IDENTIFICATION STAMP
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APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

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RON EDWARDS

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ron@rearchitect.net

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C 25192
REN 12-31-23
STATE OF CALIFORNIA

CUSTOM CANOPIES INC.
11815 BURKE STREET
SANTA FE SPRINGS, CA 90670

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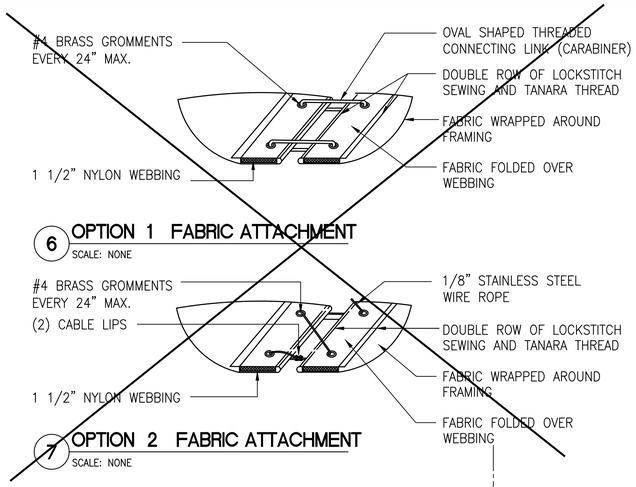
PRECHECK FABRIC SHADE STRUCTURE

MANUFACTURER:

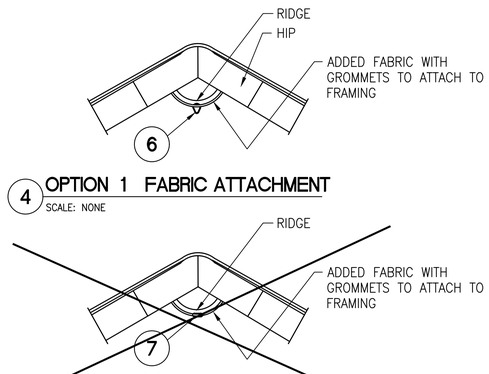
Sheet Title
2019 CBC DWGS

Project # **22-029**
Drawn By
Date **7-12-22**
Sheet **S2**



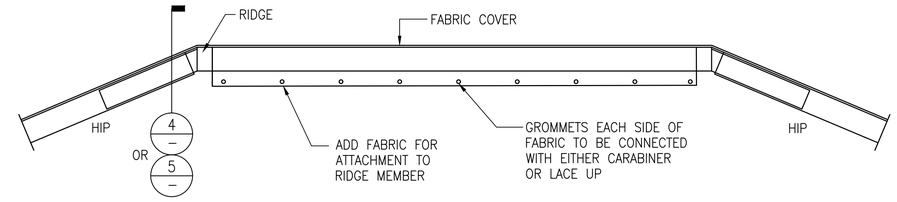
6 OPTION 1 FABRIC ATTACHMENT
SCALE: NONE

7 OPTION 2 FABRIC ATTACHMENT
SCALE: NONE

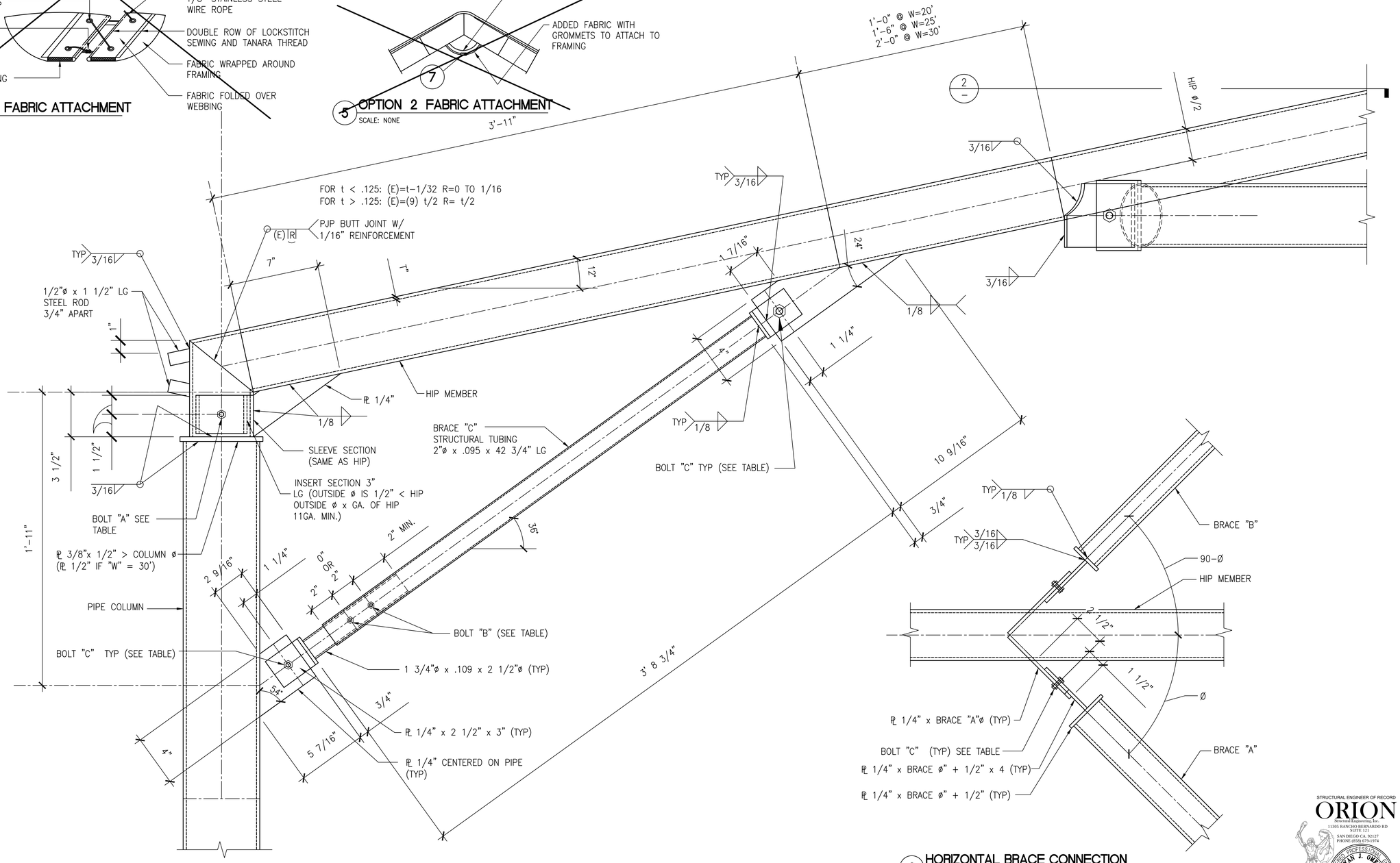


4 OPTION 1 FABRIC ATTACHMENT
SCALE: NONE

5 OPTION 2 FABRIC ATTACHMENT
SCALE: NONE



3 SECTION TO SHOW FABRIC ATTACHMENT TO FRAMING
SCALE: NONE



1 TYPICAL EXT. COL. - HIP CONNECTION
SCALE 3" = 1'-0"

2 HORIZONTAL BRACE CONNECTION
SCALE 3" = 1'-0"

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EVAN J. OMER
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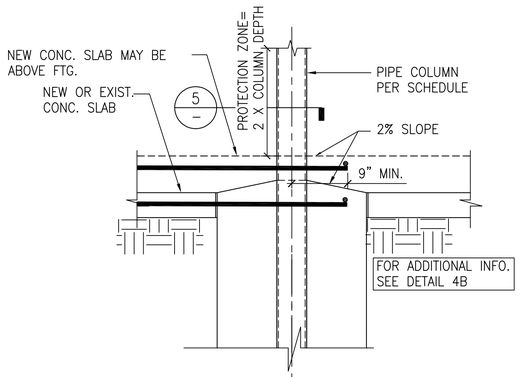
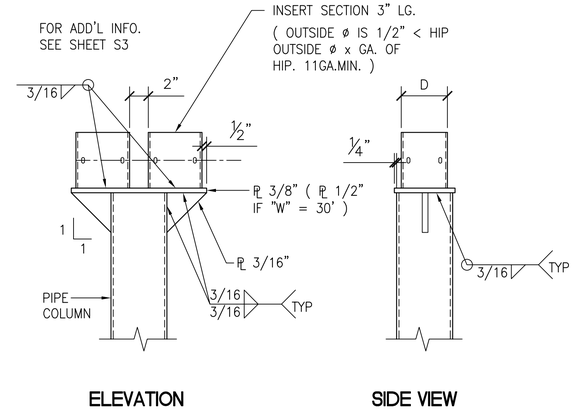
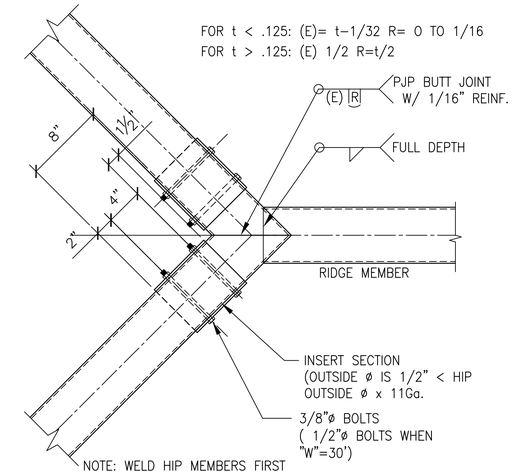
Project #	Sheet
22-029	S3
Drawn By	
Date 7-12-22	



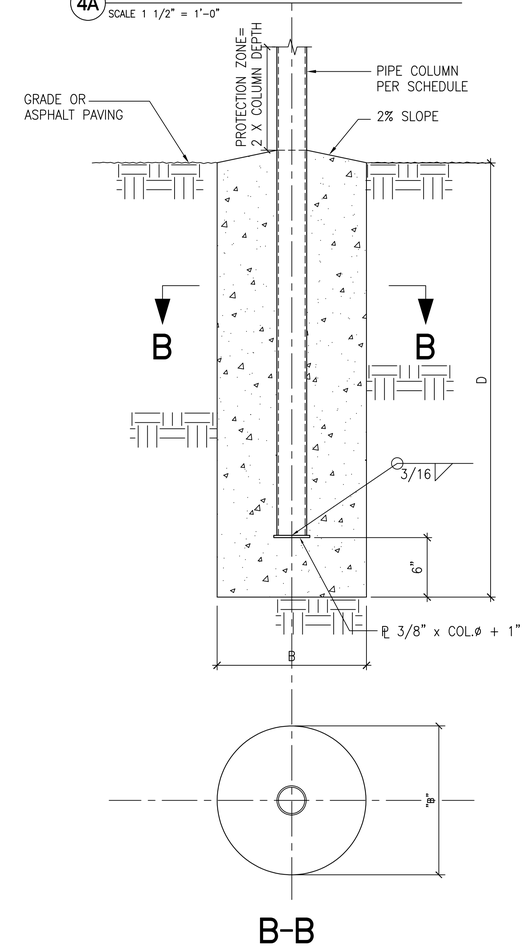
4A TYPICAL CONSTRAINED FOOTING DETAIL
SCALE 1 1/2" = 1'-0"



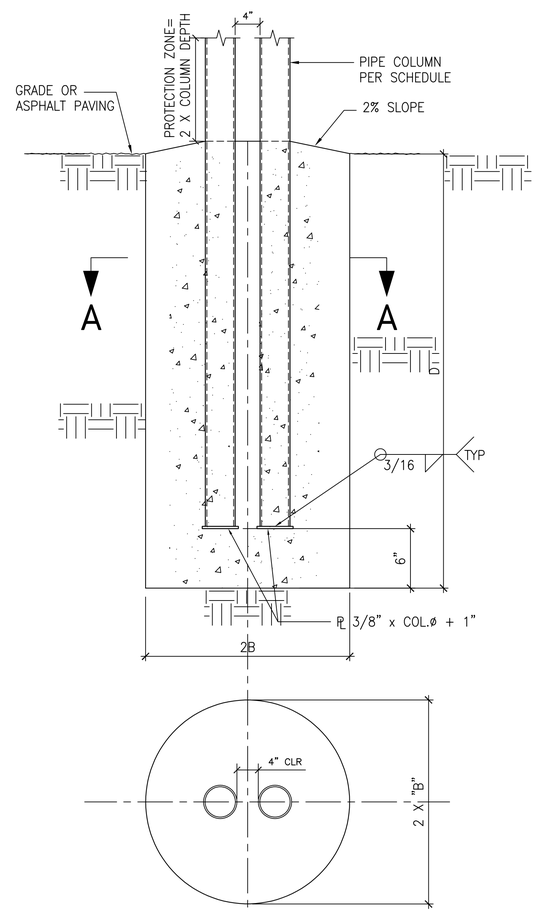
3 TYPICAL INT. COL. - HIP CONNECTION
SCALE 3" = 1'-0"



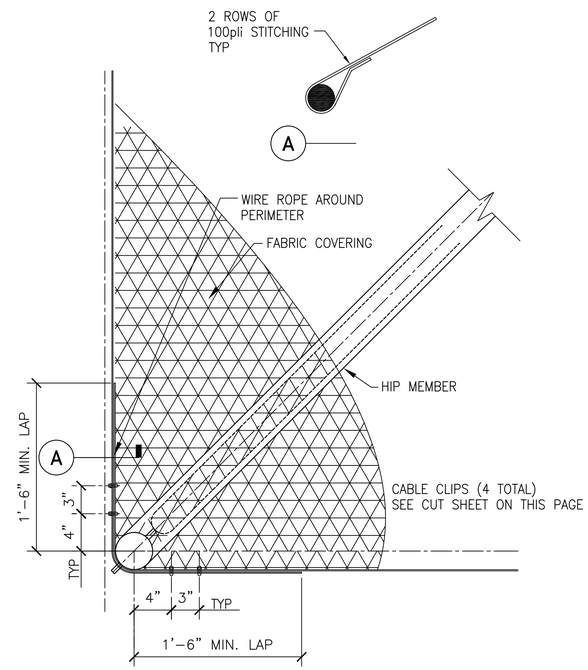
1 TYPICAL HIP - RIDGE CONNECTION
SCALE 1 1/2" = 1'-0"



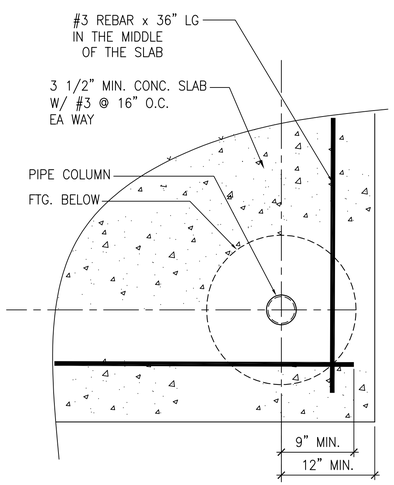
4B TYPICAL NON-CONSTRAINED FOOTING DETAIL
SCALE 1 1/2" = 1'-0"



4C TYPICAL NON-CONSTRAINED FOOTING DETAIL
SCALE 1 1/2" = 1'-0"



2 TYPICAL CABLE CONNECTION
SCALE 1 1/2" = 1'-0"



5 TYPICAL CONSTRAINED FOOTING DETAIL
SCALE 1 1/2" = 1'-0"

STRUCTURAL ENGINEER OF RECORD
ORION
Structural Engineering, Inc.
11305 RANCHO BERNARDO RD
SUITE 121
SAN DIEGO CA. 92127
PHONE (858) 679-1974
REGISTERED PROFESSIONAL ENGINEER
RYAN J. OMER
No. S 4437
STRUCTURAL
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122615 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 07/20/2023

rea architect
RON EDWARDS
Architecture
7400 Pedrick Court
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C-25192
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STATE OF CALIFORNIA

CUSTOM CANOPIES INC.
11815 BURKE STREET
SANTA FE SPRINGS, CA 90670

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
PRE-CHECK PC DOCUMENT
CODE: 2019 CBC
A separate application for construction is required

PC APPROVAL STAMP:
APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121376 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/01/2022

PRECHECK FABRIC SHADE STRUCTURE

MANUFACTURER:

Sheet Title
2019 CBC DWGS

Project # 22-029
Drawn By
Date 7-12-22
Sheet S4