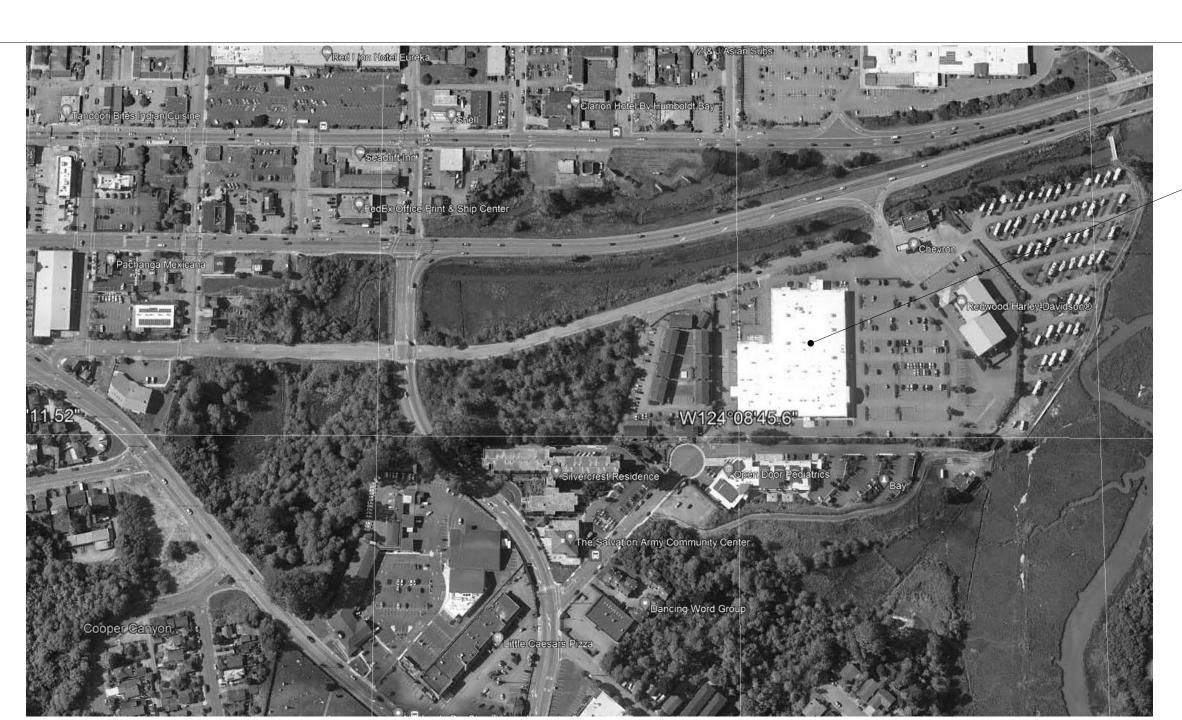
TENANT IMPROVENMENTS FOR ECONOMIC DEVELOPMENT AND CHILD SUPPORT SERVICES 2420 6TH STREET, EUREKA, CA



VICINITY MAP Bay Nat'l PROJECT SITE **2420 6TH STREET** EUREKA, CA

PROJECT DESCRIPTION

SCOPE INCLUDES

BEARING WALLS, RETROFITTING AND RELOCATING OF ELECTRICAL LIGHTING AND POWER TO ACCOMODATE NEW SPACE PLANNING. AND ASSOCIATED ADA ACCESSIBILTY

BID ALTERNATE ONE: THE INTERIOR FOR THE OFFICES OF THE HUMBODLT COUNT ECONOMIC DEVELOPMENT AND CHILD SERVICES DEPARTMENTS DESIGNATED ON DETAIL 1

ELECTRICAL LIGHTING AND POWER TO ACCOMODATE NEW SPACE PLANNING. AND ASSOCIATED ADA ACCESSIBILTY IMPROVEMENTS

DIRECTORY

HUMBOLDT COUNTY

825 5TH STREET, ROOM 112 EUREKA, CA 95501 707-476-2388 CONTACT: TRAVIS SMITH

CAO PROJECT MANAGER

ARCHITECT

ALAMEIDA ARCHITECTURE 555 SOUTH MAIN STREET, SUITE 2 SEBASTOPOL, CALIFORNIA 95472 (707) 824-1219 FAX (707) 824-2670

DEFERRED APPROVAL

MODIFICATIONS TO EXISTING FIRE ALARM SYSTEM

MODIFICATIONS TO EXISTING FIRE SPRINKLER SYSTEM

REBID MODIFICATIONS

1. OMIT NEW LIGHTING FIXTURES FROM

SCOPE RETROFIT EXISTING **FIXTURES**

- WITH T-8 LED W/ BALLAST BYPASS. 2. OMIT NEW DAYLIGHT CONTROLS. EXISTING LIGHTING CONTROLS TO
- REMAIN. 3. OMIT WALL COVERINGS.
- 4. OMIT BID ALTERNATE: CAFE BAR -CASEWORK AND ASSOCIATED **PLUMBING**

DRAWING INDEX

CODE ANALYSIS DEMOLITION PLAN

COVER SHEET

SITE PLAN - ACCESSIBILITY & GREEN CODE E.V.

ACC EGRESS PLAN A-0.4

A-0.3

CG-1

E-2

A-1 NEW FLOOR PLAN A-1.1 LAYOUT PLAN

RESTROOM - DETAIL PLAN & DETAILS

DETAILED ACC INTERVIEW RM AND GENDER

NEUTRAL RESTROOM PLAN

DEPARTMENTAL DISTRIBUTION PLAN

R.F.C.P. DEMOLITION

R.F.C.P. NEW

SITE ACCESS DETAILS A-3

A-3.1 ADA SIGNAGE PLAN

SIGN SCHEDULE & DETAILS

INTERIOR ELEVEATIONS

RECEPTION AND COUNTER SECTIONS

TYPICAL METAL STUD PARTITION CONSTRUCTION CASEWORK DETAILS

POWER & LIGHTING CONTROLS SEQUENCE OF

OPERATION

SUSPENDED CEILING LAYOUT AND DETAILS

SUSPENDED ACCOUSTICAL CEILING DETAILS SUSPENDED DRYWALL LAYOUT

SUSPENDED DRYWALL DETAILS

SUSPENDED DRYWALL CEILING WHERE

PARTIALLY JOISTED

ROOM SCHEDULE CAL GREEN CHECKLIST

CALGREEN CHECKLIST

CALGREN CHECKLIST ELECTRICAL SCHEDULES AND NOTES

ELECTRICAL POWER DEMOLITION

POWER PLAN

LIGHTING PLAN

PROJECT

PROJECT MANAGEMENT

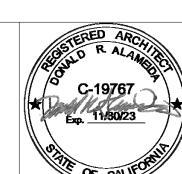
ALAMEIDA

ARCHITECTURE

SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM

TENANT IMPROVENMENTS FOR ECONOMIC DEVELOPMENT AND CHILD SUPPORT **SERVICES**

> **2420 6TH STREET** EUREKA, CA



No.	Description	Date
1	REBID REDUCED SCOPE	10/16/2

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker
A • •	

A-0

Scale

APPLICABLE CODES

2019Edition

2018 Edition

2019 (R2010)

2016 Edition

1999 Edition

2019 Edition

2019 Edition

PARTIAL LIST OF APPLICABLE CODES 2019 California Administrative Code (CAC). Part 1. Title 24 CCR* 2019 California Building Code (CBC), Part 2. Title 24 CCR (2018 International Building Code, Vol. 1 & 2. and 2019 California

2019 California Electrical Code (CEC). Part 3. Title 24 CCR

(2017 National Electrical Code and 2019 California Amendments)

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

(2018 IAPMO Uniform Mechanical Code and 2019 California amendments) 2019 California Plumbing Code (CPC), Part 5, Title 24 CCR

(2018 IAPMO Uniform Plumbing Code and 2019 California amendments)

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

2019 California Fire Code (CFC), Part 9. Title 24 CCR

(2018 International Fire Code and 2019 California Amendments) 2019 California Existing Building Code (CEBC). Part 10. Title 24 CCR

(2018 International Existing Building Code and 2019 California Amendments)

2019 California Green Building Standards Code (CALGreen), Part 11, Title 24 CCR

2019 California Referenced Standards Code, Part 12. Title 24 CCR Title 19 CCR, Public Safety, State Fire Marshal Regulations

2016 ASME A17.1/CSA B44-13 Safety Code for Elevators and Escalators

PARTIAL LIST OF APPLICABLE STANDARDS

ADA Standards for Accessibility Design Standard for the Installation of Sprinkler Systems (CA amended) 2016 Edition Standard for the Installation of Standpipe and Hose Systems 2016 Edition Standard for Dry Chemical Extinguishing Systems 2016 Edition NFPA 17A Standard for Wet Chemical Extinguishing Systems 2016 Edition Standard for the Installation of Stationary Pumps for Fire Protection 2016 Edition 2016 Edition

Standard for Water Tanks for Private Fire Protection Standard for the Installation of Private Fire Service Mains and Their Appurtenances

National Fire Alarm and Signaling Code (CA amended); Standard for Fire Doors and Other Opening Protectives

NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems Standard for Fire Testing of Fire Extinguishing Systems for

Protection of Commercial Cooking Equipment UL 464 Audible Signaling Devices for Fire Alarm and Signaling Systems. Including Accessories Standard for Heat Detectors for Fire Protective Signaling Systems

Standard for Signaling Devices for the Hearing Impaired 2002 Edition Standard for Bleachers. Folding and Telescopic Seating. ICC 300 2017 Edition For a complete list of applicable NFPA standards releto 2016 CBC (SFM) Chapter 35 and California

See California Building Code, Chapter 35, for State of California amendments to the NFPA Standards.

GENERAL NOTES

1. ALL WORK CONFORM TO APPLICABLE CODES, REGULATIONS, LAWS AND ORDINANCES AS REQUIRED AND BY THE CODES AND REGULATIONS LISTED IN THESE CONSTRUCTION

DOCUMENTS AND MANUALS. 2. VERIFY ALL DIMENSIONS IN THE FIELD. NOTIFY THE ARCHITECT OF ANY DISCREPANCY AND OBTAIN CLARIFICATION BEFORE PROCEEDING WITH THE AFFECTED WORK. FOLLOW NUMERICAL DIMENSIONS: DO NOT SCALE,

3. FLOOR PLAN DIMENSIONS SHOWN ARE TO FACE OF FINISH OR CENTERLINE OF COLUMNS, UNLESS OTHERWISE NOTED. SEE

USE DATUM POINTS TO START DIMENSION STRING LAYOUT.

4. BEFORE BEGINNING WORK AT THE SITE, WHERE POSSIBLE AND THROUGHOUT THE COURSE OF WORK, INSPECT AND VERIFY THE LOCATION AND CONDITION OF ITEMS AFFECTED BY THE WORK UNDER THIS CONTRACT AND REPORT DISCREPANCIES TO ARCHITECT BEFORE DOING THE WORK

RELATED TO THAT BEING INSPECTED.

CONSTRUCTION AND FINISHES.

CONTRACT.

5. THE ARCHITECTURAL DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS DUE TO CHANGES AFFECTING EXISTING MECHANICAL, ELECTRICAL PLUMBING OR OTHER SYSTEMS. SUCH INCIDENTAL WORK IS ALSO PART OF THIS

6. DO NOT DRILL OR CUT EXISTING JOISTS, BEAMS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS SPECIFICALLY

INDICATED. 7. PREPARE, SUBMIT AND RECIEVE APPROVAL OF SLEEVE AND OPENING DRAWINGS BEFORE LOCATING SLEEVES AND OPENINGS IN

FIRE-RATED CONSTRUCTION AND BEFORE CUTTING FIRE-RATED

CONSTRUCTION. 8. WHERE "MATCH EXISTING" IS INDICATED: NEW CONSTRUCTION OF FINISHES AS APPROPRIATE TO THE NOTE, SHALL MATCH ADJACENT

9. FIRE BLOCKING SHALL BE PROVIDED IN ALL CONCEALED SPACES, WALL CAVITIES INCLUDED, ACCORDING TO I.B.C. **SECTION 708.2.1**

140.	Description	Date
1	REBID REDUCED SCOPE	10/16/23

BUILDING STATISTICS					
OCCUPANCY (CBC 302)	В				
USE	BUSINESS				
CONSTRUCTION TYPE	V-A				
FIRE SPRINKLERS	YES - S1				
BASIC ALLOWABLE AREA (At)	72,000 S.F.				
CBC TABLE 503	, and the second				
FRONT INCREASE	NONE TAKEN				
W=[(L1XW1)+(L2XW2)] / F					
FRONT INCREASE	NONE TAKEN				
If=[F/P-0.25] W/30					
FRONT INCREASE	NONE TAKEN				
At X If					
SPRINKLER INCREASE	NONE TAKEN				
At X Is					
ALOWABLE AREA	Aa = 9,000 + 6,525 + 0				
Aa = [At + (At X If) + (At X Is)]	Aa = 15,525 S.F.				
TOTAL ACTUAL PER STORY	72,000 S.F.				
	TOTAL ACTUAL BUILDING AREA = 19,964				
ALLOWABE HEIGHT (FEET) (CBC TABLE 503)	70				
ACTUAL HEIGHT (FEET)	+/- 30 '				
ALLOWABLE STORIES	4				
ACTUAL STORIES	1				

REQUIRED PLUMBING FIXTURE COUNT

MINIMUM PLUMBING FACILITIES¹ (continued)

TYPE OF OCCUPANCY ²		CLOSETS ER PERSON) ³	URINALS (FIXTURES PER PERSON) ⁴		ORIES ER PERSON) ^{5, 6}	BATHTUBS OR SHOWERS (FIXTURES PER PERSON)	DRINKING FOUNTAINS/ FACILITIES (FIXTURES PER PERSON)	OTHER
B Business occupancy (office, professional or service type transactions)- banks, vet clinics, hospi- tals, car wash, banks, beauty salons, ambulatory health care facilities, laun-	Male 1: 1-50 2: 51-100 3: 101-200 4: 201-400	Female 1: 1-15 2: 16-30 3: 31-50 4: 51-100 8: 101-200 11: 201-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600	Male 1: 1-75 2: 76-150 3: 151-200 4: 201-300 5: 301-400	Female 1: 1-50 2: 51-100 3: 101-150 4: 151-200 5: 201-300 6: 301-400		1 per 150	1 service sink or
dries and dry cleaning, educational institutions (above high school), or training facilities not located within school, post offices and printing shops	for each ad males and each addi	add 1 fixture ditional 500 1 fixture for tional 150 ales.	Over 600, add 1 fixture for each additional 300 males.	for each ad males and each addi	add 1 fixture ditional 250 1 fixture for tional 200 ales.			laundry tray

REQUIRED PLUMBING FIXTURE COUNT FOR TOTAL OCCUPANT LOAD OF 239 $50\,/\,50$ MALE AND FEMALE = 120 EACH.

WATER CLOSETS	MALE 3 REQUIRED	<u>FEMALE</u> 8 REQUIRED
WATER CLOSETS	3 REQUIRED	8 REQUIRED

2 MALE ONLY	7 FEMALE ONL
1 UNISEX	1 UNISEX
3 PROVIDED	8 PROVIDED

URINALS 2 REQUIRED 2 PROVIDED

LAVATORIES

3 REQUIRED
2 MALE ONLY
5 FEMALE ONLY
1 UNISEX
1 PROVIDED
6 PROVIDED

DRINKING FOUNTAIN 1 PER 150 = 2 REQUIRED 3 PROVIDED

SEE SHEET A-0.4 ACC EGRERSS PLAN

					I OAD SCHEDIII				
RM. NO.	NAME	AREA	OCCUPANCY	OLF	NO. OF OCCUPANTS		CUMM. LOAD	EGRESS WIDTH (IN.)	MIN. EGRESS WIDTH (IN.) PER C.B.C. 1005.3.2 & 11B-404.2.3
101	LOBBY	661 SF		30	22	1		72	32
103	WC 2	69 SF			22	1		12	32
104	WC 1	75 SF							
105	INTERV. 2	72 SF							
106	INTERV. 3	81 SF							
107	INTERV. 4	67 SF							
108	INTERV. 5	73 SF							
109 110	DCSS CHILD DEV.	51 SF 212 SF	BUSINESS	100	2	1		36	32
110	CONFERENCE	212 51	DOSINESS	100	2	1		30	32
111	EC. DEV.	51 SF							
112	CD OFFICE 2	963 SF							
113	INTERV. 1	72 SF							
120	FAMILY SUPPORT SURFACES	4058 SF							
121	(E) OFFICE	166 SF							
122	(E) OFFICE	166 SF							
123 124	(E) OFFICE CUST.	166 SF 35 SF		300	0	1		36	32
124	OPEN OFFICE	1225 SF	BUSINESS	100	12	2		72	32
126	STORAGE	106 SF	B C S I (LSS	100	12			, 2	32
129	OFFICE	151 SF	BUSINESS	100	2	1		36	32
130	OFFICE	169 SF	BUSINESS	100	2	1		36	32
131	EMPLOYEE TRAINING	989 SF							
132	OFFICE	132 SF	BUSINESS	100	1	1		36	32
133 134	STORAGE OFFICE	296 SF 132 SF	ACC. STOR. BUSINESS	300	1	1		36	32
135	CHILE DEV. AREA 2	860 SF	BUSINESS	100	1	1		36	32
136	OFFICE	169 SF	BUSINESS	100	2	1		36	32
137	OFFICE	191 SF	BUSINESS	100	2	1		36	32
138	OFFICE	159 SF	BUSINESS	100	2	1		36	32
139	OFFICE	159 SF	BUSINESS	100	2	1		36	32
140 141	RECEPT. OFFICE	301 SF 157 SF	BUSINESS BUSINESS	100	3 2	1		36 36	32
142	OFFICE	79 SF	BUSINESS	100	1	1		36	32
144	OFFICE	145 SF	BUSINESS	100	1	1		20	32
145	OFFICE	134 SF	BUSINESS	100	1				32
146	OFFICE	142 SF	BUSINESS	100	1				32
147	OFFICE	1354 SF	BUSINESS	100	14	1		36	32
148	STOR.	52 SF	ACC. STOR.	300	0	1		36	32
149	NEW OFFICE	166 SF							
155 156	EQUIPMENT SERVER	118 SF 128 SF							
130	ROOM	140 01							
157	TELEPHONE	83 SF							
158	LOUNGE	106 SF							
160	BREAK RM.	589 SF	BUSINESS	100	6	1		36	32
161	CONF STOP	358 SF	BUSINESS	100	0	1		36 36	32 32
162 163	CONF. STOR,	53 SF 144 SF	ACC. STOR.	300	U	1		30	32
164	MENS	205 SF	BUSINESS	100	2	1		36	32
165	WOMENS	324 SF	BUSINESS	100	3	1		36	32
167	CD OFFICE 5	141 SF							
168	CD OFFICE 4	144 SF							
170	INFORMATIO N SERVICES	444 SF	DATE TO SERVICE OF THE SERVICE OF TH	100				2.5	
171	SYST. ANYLSIS	165 SF	BUSINESS	100	2	1	00	36	32
180	CORRIDOR	616 SF		0		2	80 88	36 36	32 32
181	CORRIDOR	346 SF		0		2	00	50	32
187	(E) VEST.	56 SF							
198	EC. DEV.TRAININ G AND	520 SF	BUSINESS	100	5	1		36	32
	RECEP.	18849 SF							

239 OCCUPANTS

PROJECT MANAGEMENT

ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

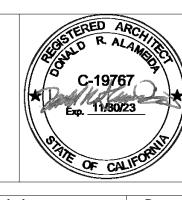
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Date

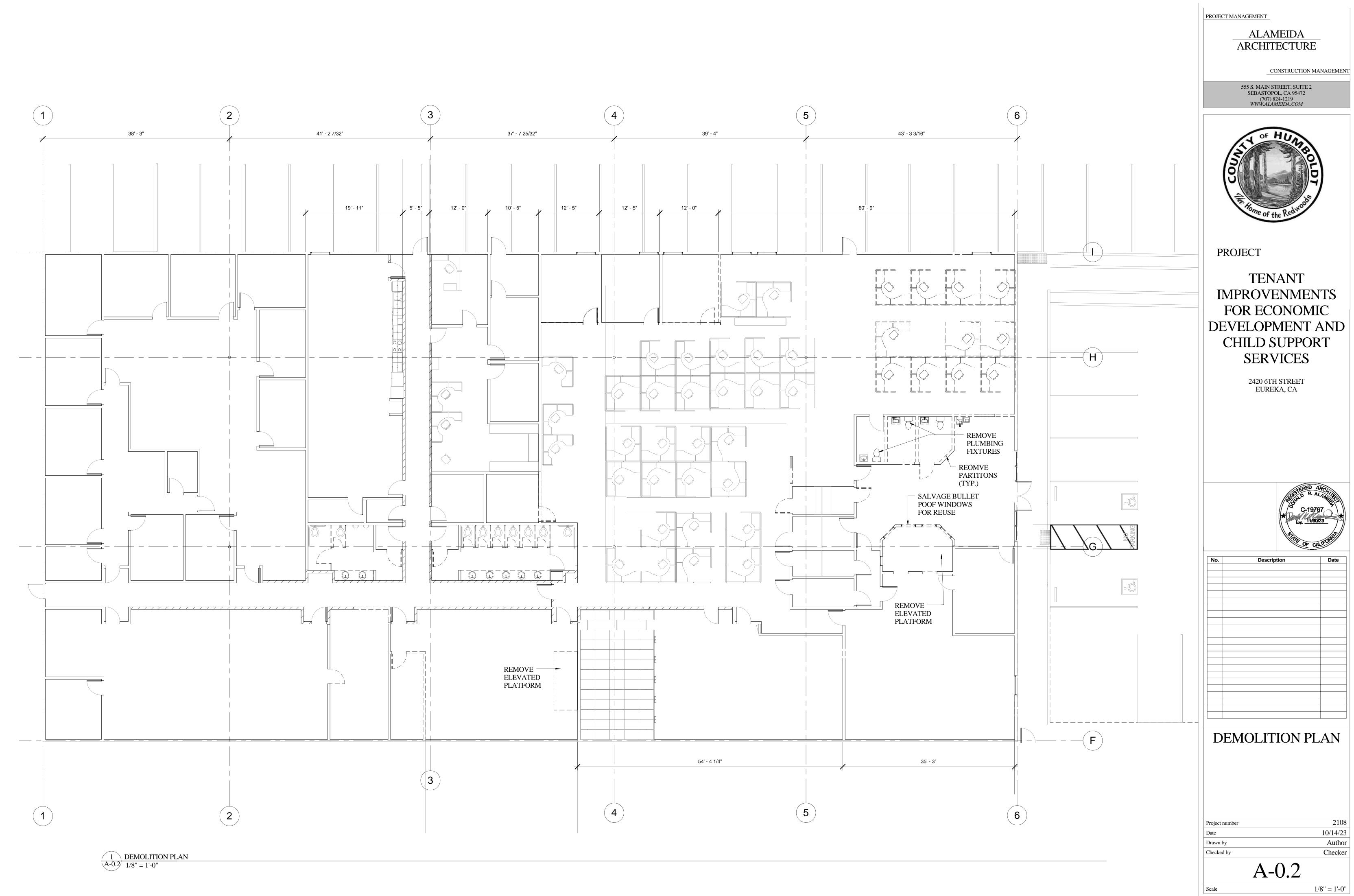
CODE ANALYSIS

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

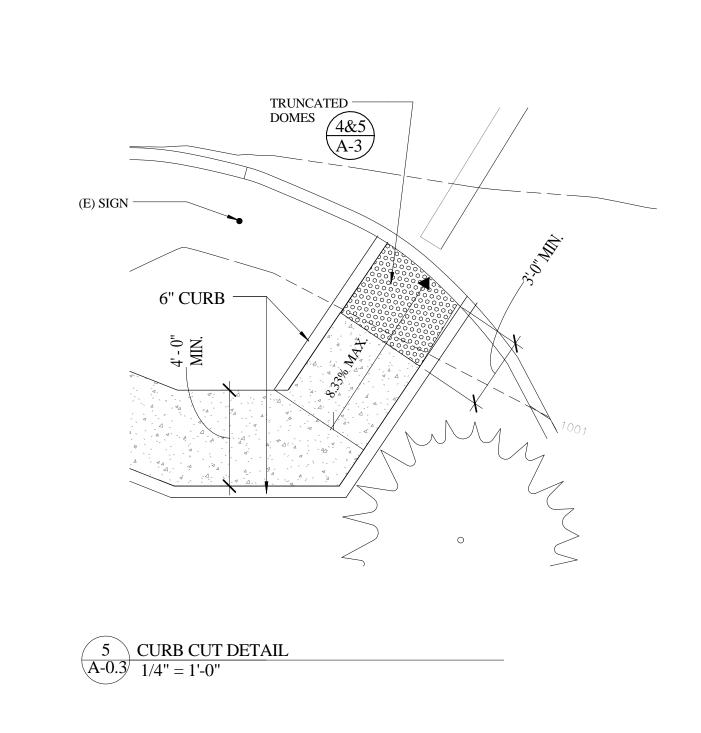
A-0.1

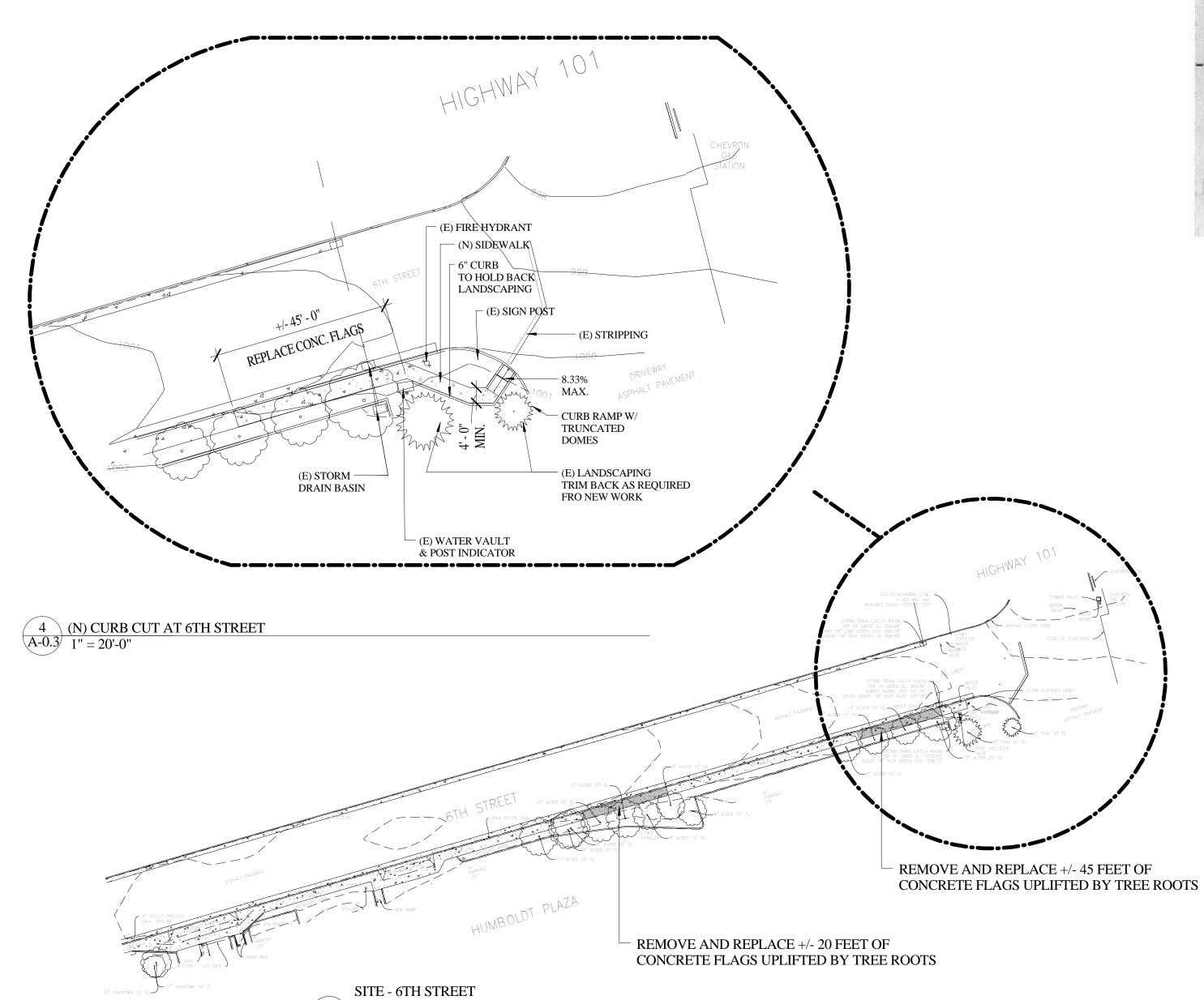
Caala

6/10/2025 9:53:01 AM



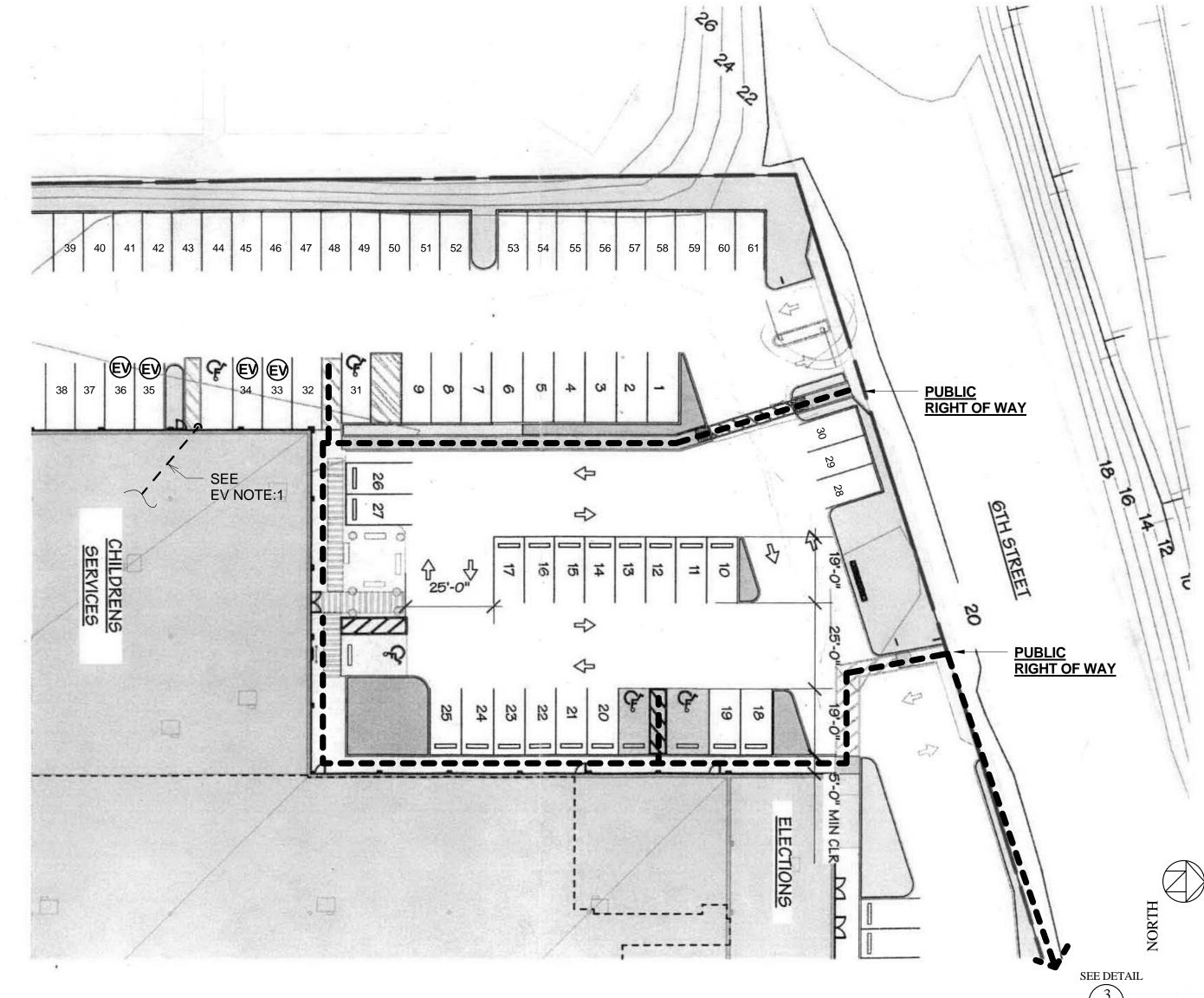
6/10/2025 9:53:05 AM





IMPROVEMENTS

A-0.3 1'' = 40'-0''



EV E.V. READY PARKING SPACE

<u>E.V.NOTE 1.</u>

INSTALL 2" CONDUIT FROM

DISTRIBUTION PANEL "W" 800 AMP

ABOVE CEILING, TROUGH EXTERIOR WALL AND TEMINATE FOR FUTURE

E.V. SUBPANEL & CHARGERS @ 42"

ABOVE GRADE ON EXTERIOR WALL.

SERVICE LOCATED IN ROOM 166

PARKING FOR CHILD PROTECTIVE SERVICES, ECONOMIC DEVELOPMENT AND DEPARTMENT OF ELECTIONS EXISTING PARKLING
STANDARD STALL = 60
ACCESSIBLE VAN = 2
ACCESSIBALE = 2
TOTAL 64

REQUIRED ACCESSIBLE PARKING FOR 51- 75 3 REQUIRED < 4 PROVIDED

FOR CONTINUATION

C.B.C. GREEN CODE ELECTRIC VEHICAL READY REQUIREMENT

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CHARGING SPACES
0-9	0
10-25	1
26-50	2
51-75	4
	
101-150	7
151-200	10
201 and over	6 percent of total ¹

 $\begin{array}{c|c} \hline 1 & SITE PLAN - ACCESSIBILITY \\ \hline A-0.3 & 1/2" = 1'-0" \\ \hline \end{array}$

& GREEN CODE E.V. PARKING

PROJECT MANAGEMENT

ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Date
	•	

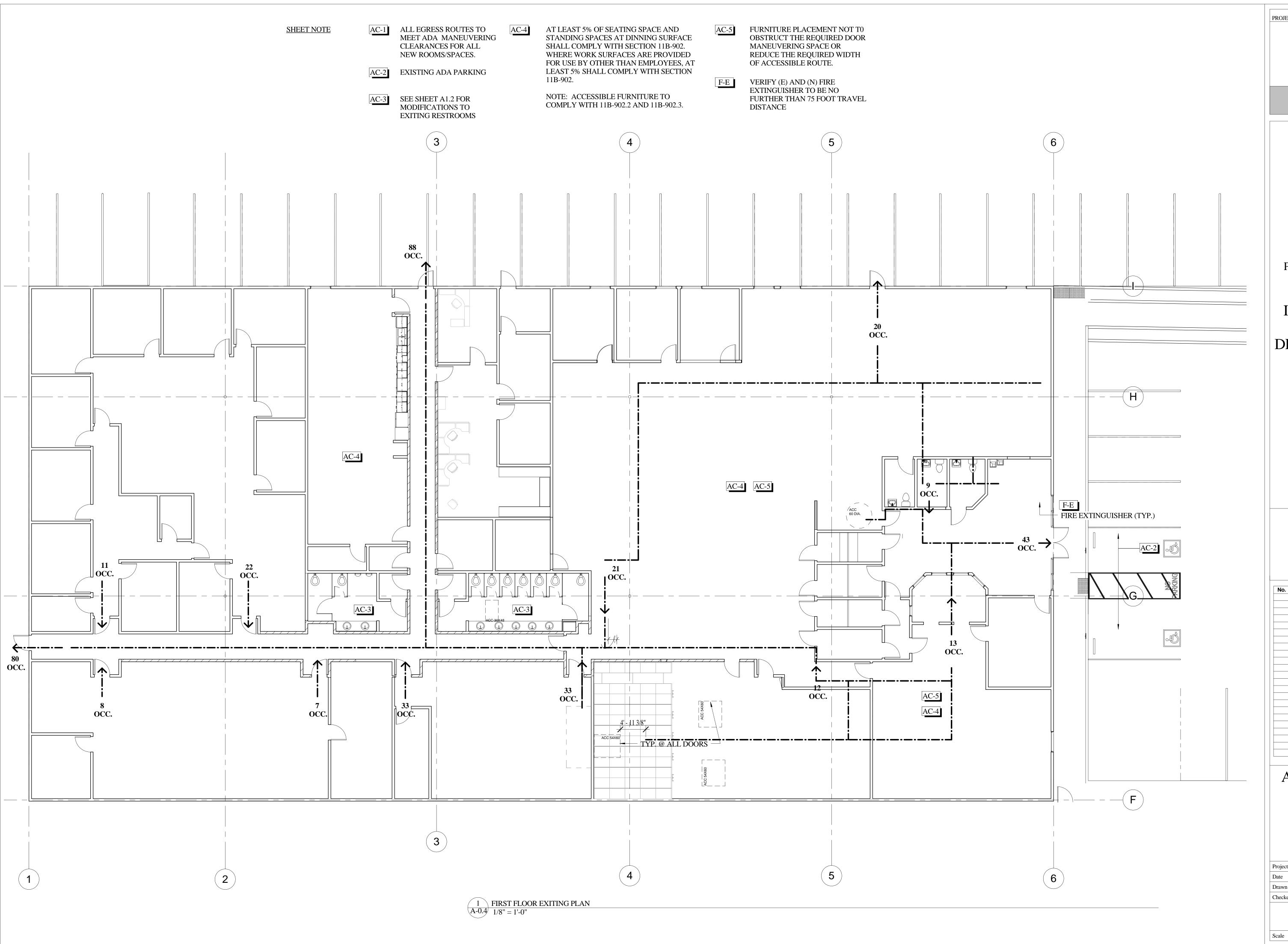
SITE PLAN -ACCESSIBILITY

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-0.3

As indicated

ndicated



ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

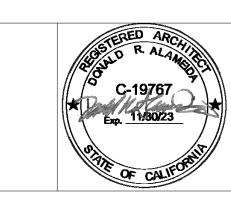
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA

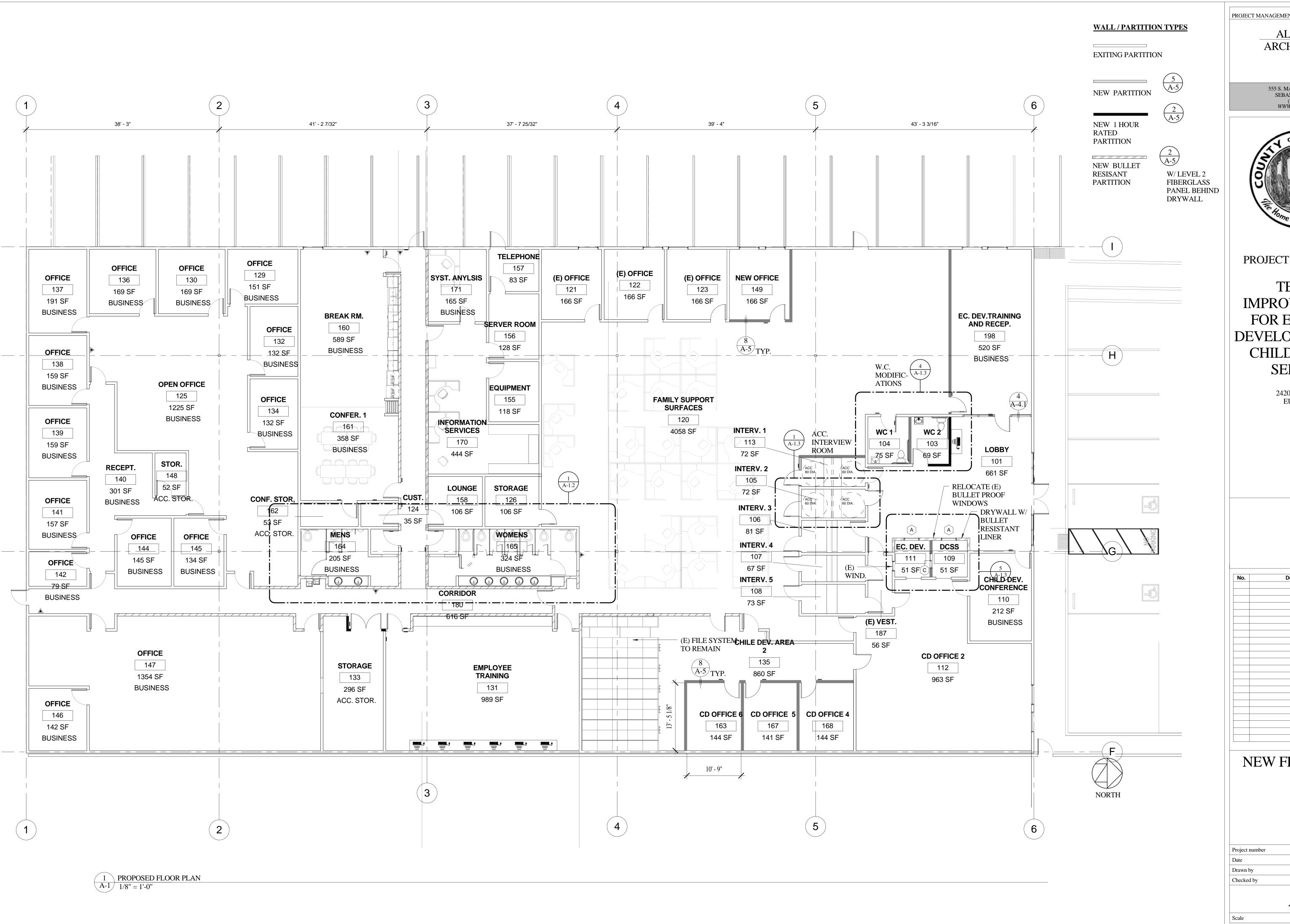


No.	Description	Date

ACC EGRESS PLAN

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-0.4



ALAMEIDA ARCHITECTURE

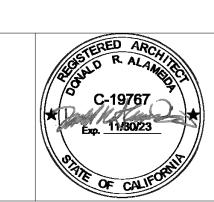
CONSTRUCTION MANAGEMENT

555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



TENANT **IMPROVENMENTS** FOR ECONOMIC DEVELOPMENT AND CHILD SUPPORT **SERVICES**

> 2420 6TH STREET EUREKA, CA



No.	Description	Date

NEW FLOOR PLAN

Project number	2108
Date	10/14/23
Drawn by	DRA
Checked by	DRA

A-1

EXITING PARTITION



 $\frac{2}{A-5}$ NEW 1 HOUR RATED PARTITION

2A-5

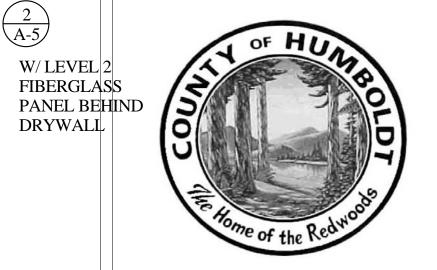
NEW BULLET RESISANT PARTITION

PROJECT MANAGEMENT

ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

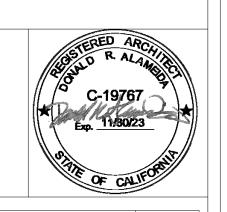
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT **IMPROVENMENTS** FOR ECONOMIC DEVELOPMENT AND CHILD SUPPORT **SERVICES**

2420 6TH STREET EUREKA, CA



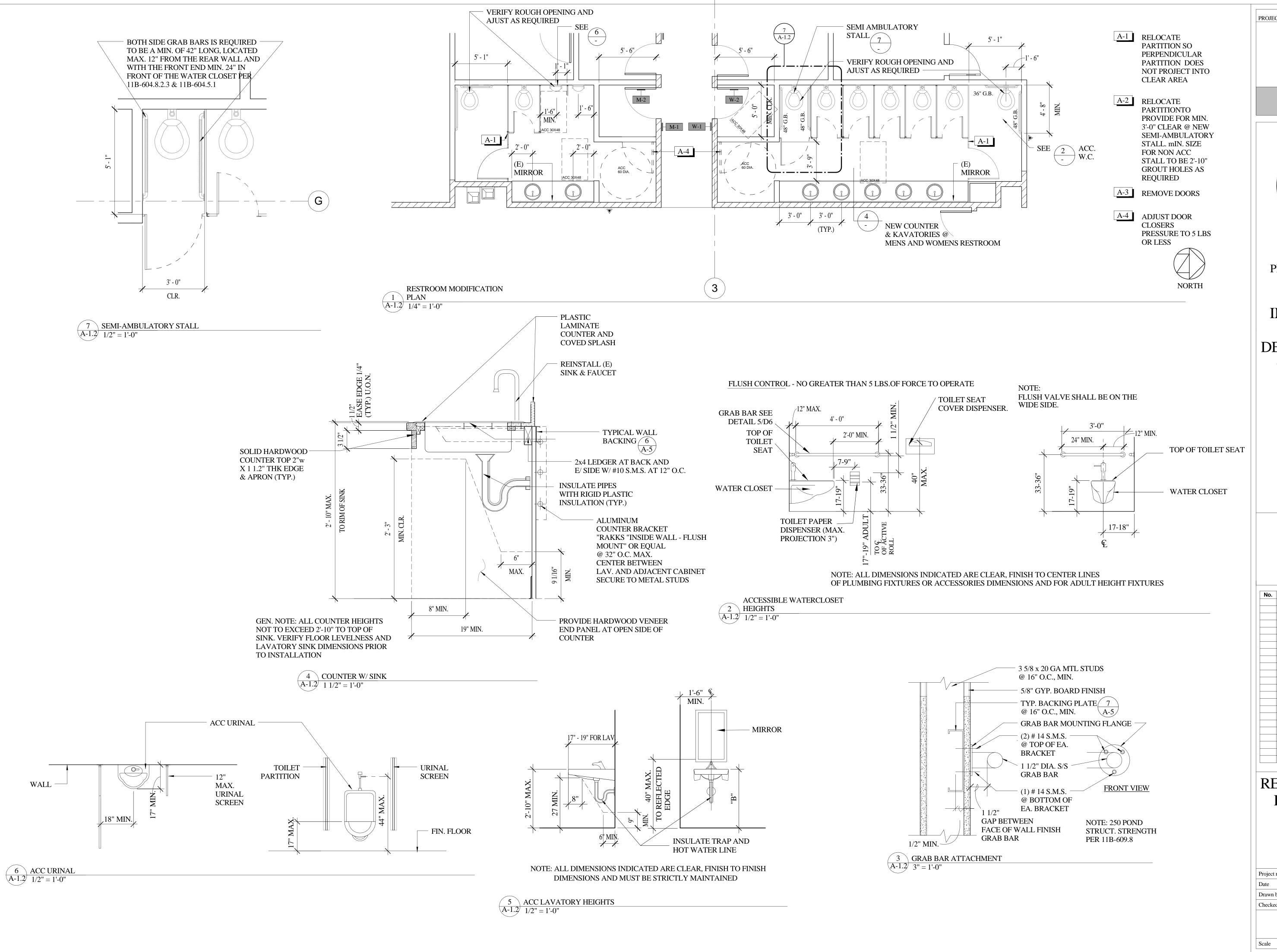
No.	Description	Date



LAYOUT PLAN

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-1.1



ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

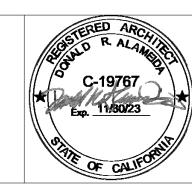
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Date

RESTROOM - DETAIL PLAN & DETAILS

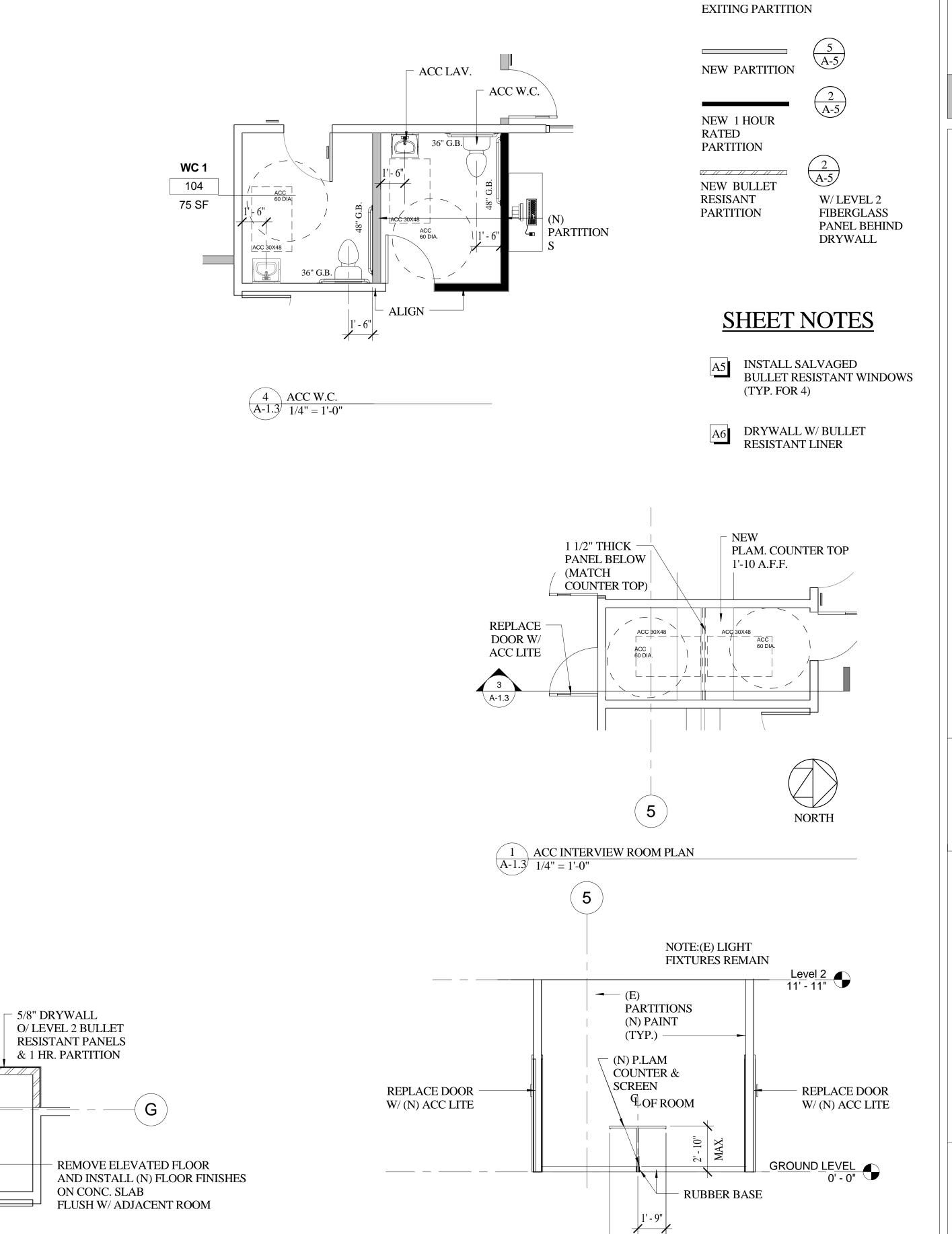
Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-1.2

As indic

As indicated

10/2025 9:53:24 AN



SECTION @ ACC INTERVIEW

RM. 1/4'' = 1'-0''

RELOCATE (E) BULLET RISTANT WINDOWS

MOFIFED RECEPTION
PARTITION/WINDOWS
A-1.3 1/4" = 1'-0"

PROJECT MANAGEMENT

WALL / PARTITION TYPES

ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

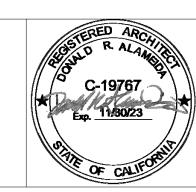
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Date

DETAILED ACC INTERVIEW RM AND GENDER NEUTRAL RESTROOM PLAN

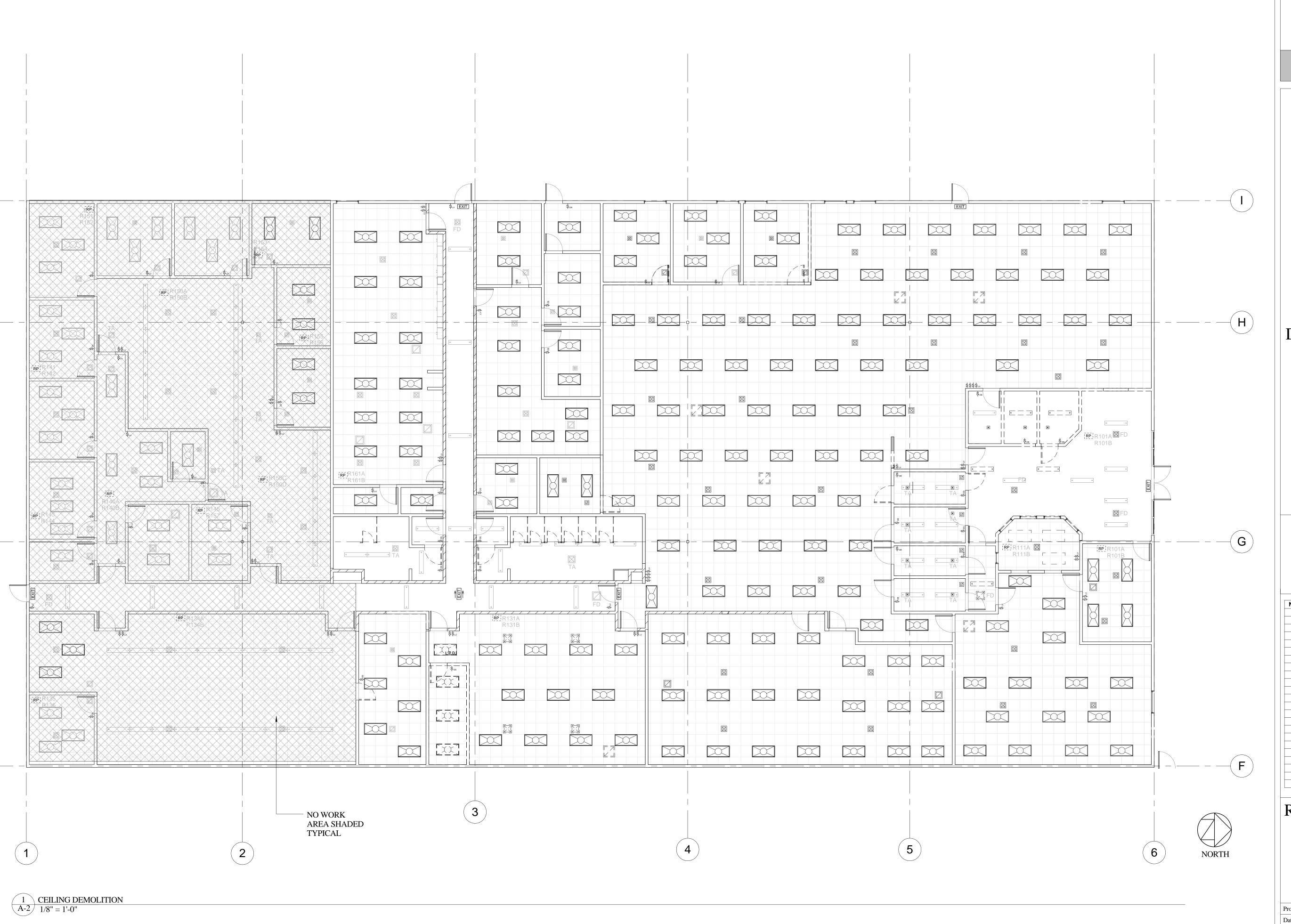
Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-1.3

Scale

As indicated

0/2025 9:53:28 A



ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

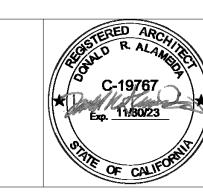
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Date
	-	

R.F.C.P. DEMOLITION

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-2

ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

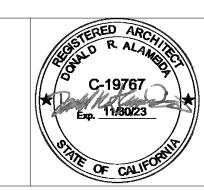
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA

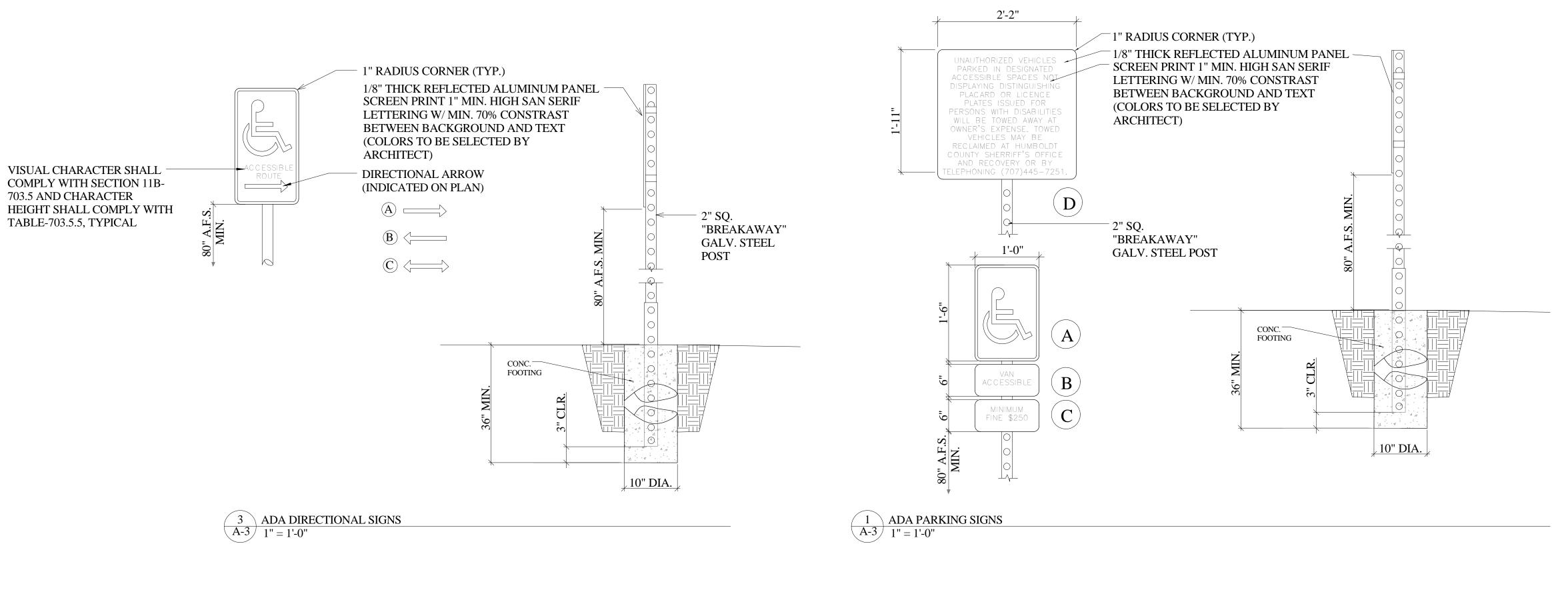


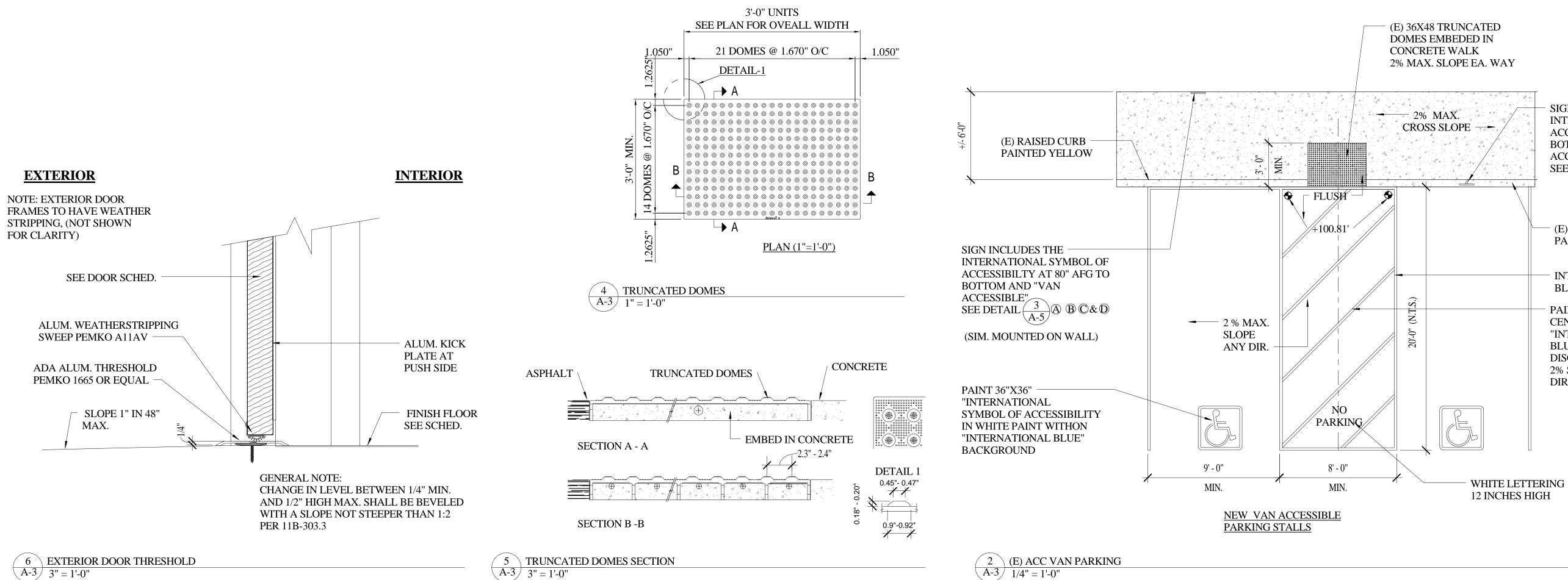
No.	Description	Date

R.F.C.P. NEW

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-2.2





ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

SIGN INCLUDES THE

BOTTOM AND "VAN

(E) RAISED CURB

INTERNATIONAL

PAINT 2" STRIPING ON 36"

DISCHARGE AREA MAX.

BLUE BORDER

CENTERS MIN. IN

"INTERNATIONAL

2% SLOPE IN ANY

BLUE" IN AUTO

DIRECTION

PAINTED YELLOW

INTERNATIONAL SYMBOL OF

ACCESSIBILTY AT 80" AFG TO

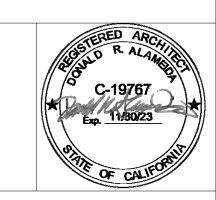
ACCESSIBLE"
SEE DETAIL

A-5

A B & C

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Date

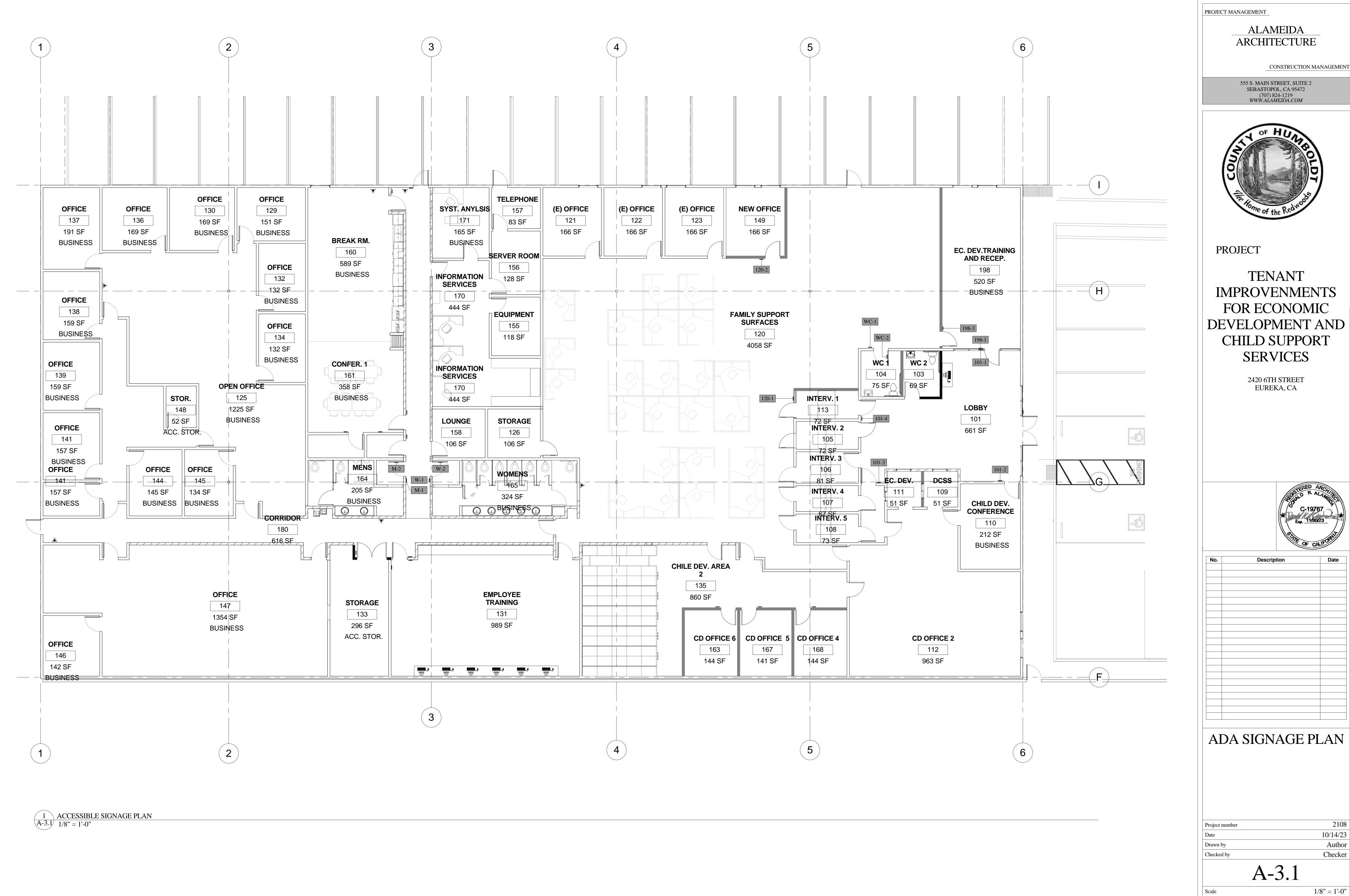
SITE ACCESS DETAILS

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-3

Scale

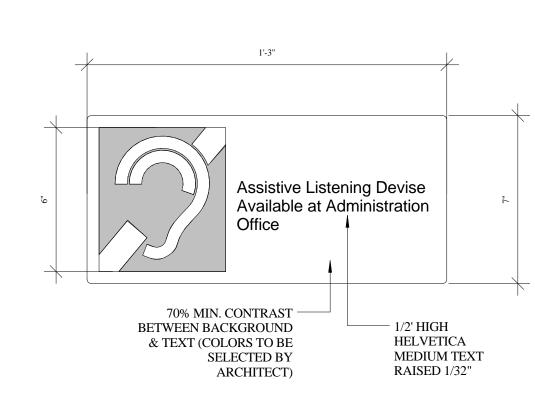
As indicated



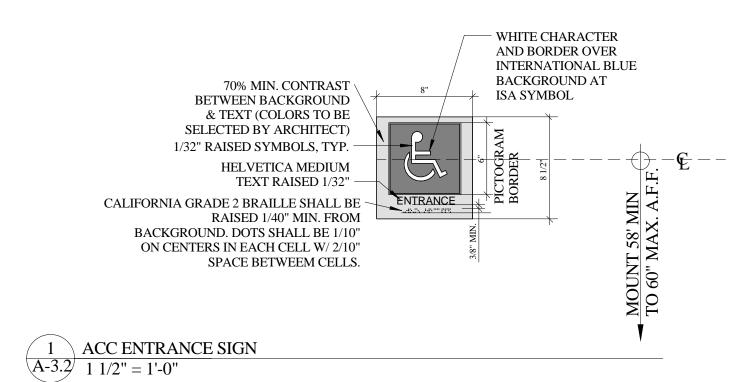
42 AM

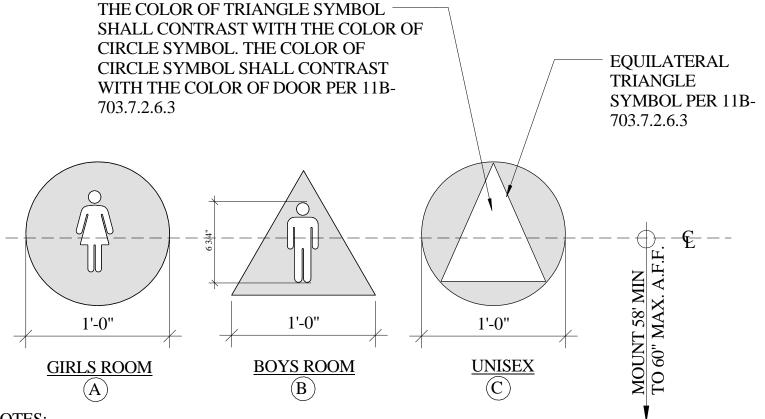
-

	SIG	GN SCHEDULE	<u> </u>		
			DETAIL		
MARK	SIGN TEXT	MOUNT	REF.	COUNT	COMMENTS
1-1	ENTRANCE	GLASS	1/A-3.2	1	
37-1	BREAK ROOM	WALL	3/A-3.2	1	
38-1	CONFERENCE ROOM 1	WALL	3/A-3.2	1	
101-1	ECONOMIC DEVELOPMENT	GLASS	3/A-3.2	1	
101-2	CHILD DEVELOP. CONFER.			1	
101-3	CHILD DEVELOPMENT	WALL		1	
101-4				1	
120-1				1	
120-2				1	
131	TRAINING ROOM	WALL	3/A-3.2	1	
163	OFFICE	WALL	3/A-3.2	1	
167	OFFICE	WALL	3/A-3.2	1	
168	OFFICE	WALL	3/A-3.2	1	
198-1	EXIT			1	
198-3	NOT AN EXIT	WALL	3/A-3.2	1	
ALS-1	[SEE DETAIL FOR TEXT]	WALL	4/A-3.2	2	
EX-1	EXIT ROUTE	WALL	3/A-3.2	2	
M-1	MEN'S RESTOOM	WALL	3/A-3.2	1	
M-2	TRIANGLE [PICTOGRAM]	DOOR	2/A-3.2	1	
W-1	WOMEN'S RESTOOM	WALL	3/A-3.2	1	
W-2	CIRCLE [PICTOGRAM]	DOOR	2/A-3.2	1	
WC-1	GENDER NEUTRAL W.C.	WALL	2c/A-3.2	1	
WC-2	TRIANGLE OVER CIRCLE [PICTOGRAM]	DOOR	3/A-3.2	1	





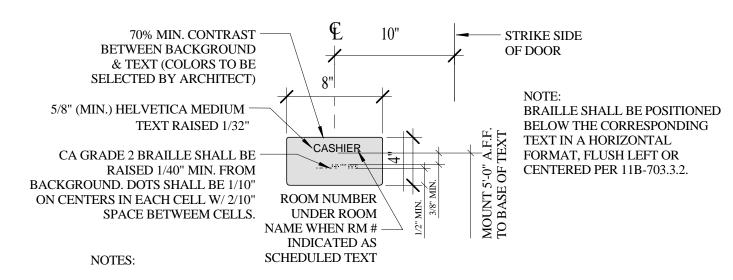




NOTES:

- 1. SIGNAGE TO BE 1/4" THICK.
- 2. ALL PICTOGRAMS SHALL BE IN CONTRASTING COLOR BACKGROUND ALL SURACES SHALL HAVE AN EGGSHELL FINISH TYP.
- 3. MOUNT ON DOORS W/NON STAINING ADHESIVE TYP.
- 4 CONFORM TO ALL APPLICABLE CODES.
- 5. POSITION ADDITIONAL ACCESSIBILITY SIGNAGE ON LATCH SIDE OF DOOR





- 1. ALL PICTOGRAMS SHALL BE IN CONTRASTING COLOR BACKGROUND
- 2. ALL SURACES SHALL HAVE AN EGGSHELL FINISH TYP. MOUNT ON WALL W/NON STAINING ADHESIVE TYP.
- 3. CONFORM TO ALL APPLICABLE CODES.
- 4. 11B-703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TAC¬TILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1219 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES (1524 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS



PROJECT MANAGEMENT

ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

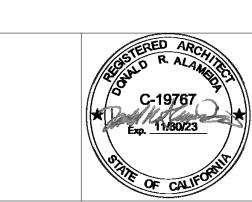
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Dat
	·	

SIGN SCHEDULE & DETAILS

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-3.2

Λ.α

As indicated

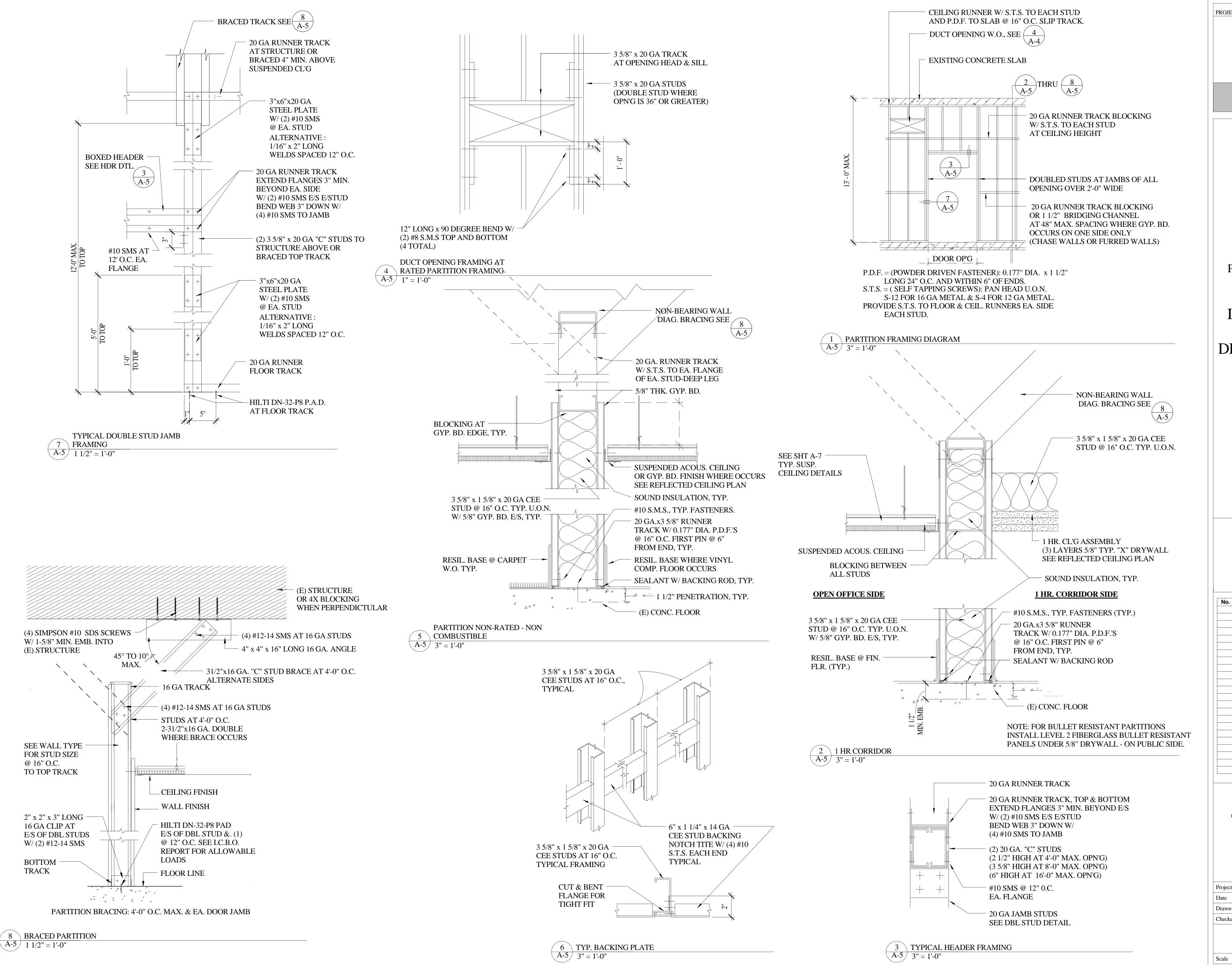


CONSTRUCTION MANAGEMENT

10/14/23 Author Checker

A-4

1/4" = 1'-0" Scale



ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

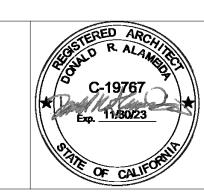
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA



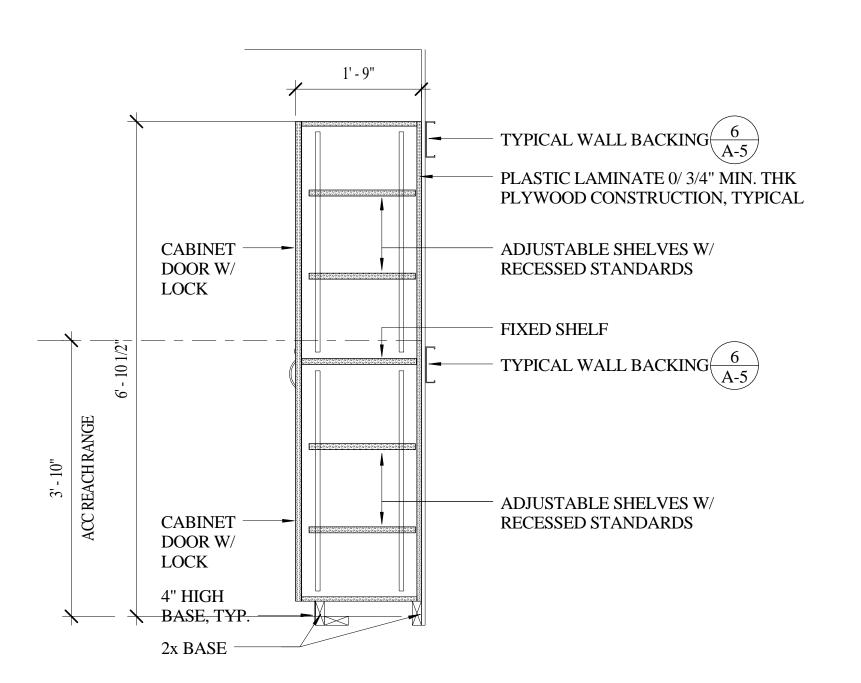
No.	Description	Date

TYPICAL METAL STUD PARTITION CONSTRUCTION

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-5

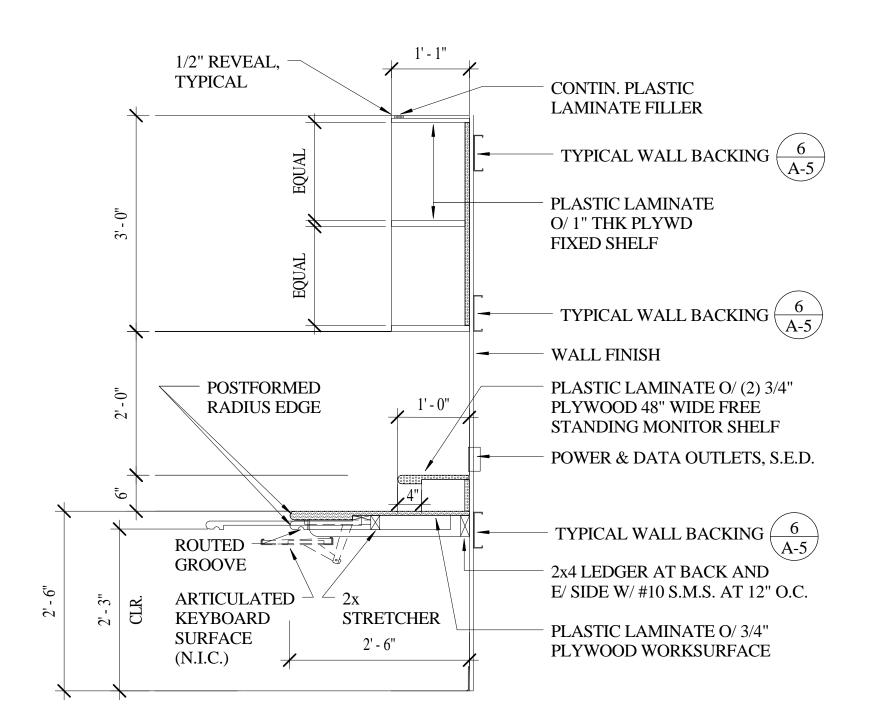
As indicated



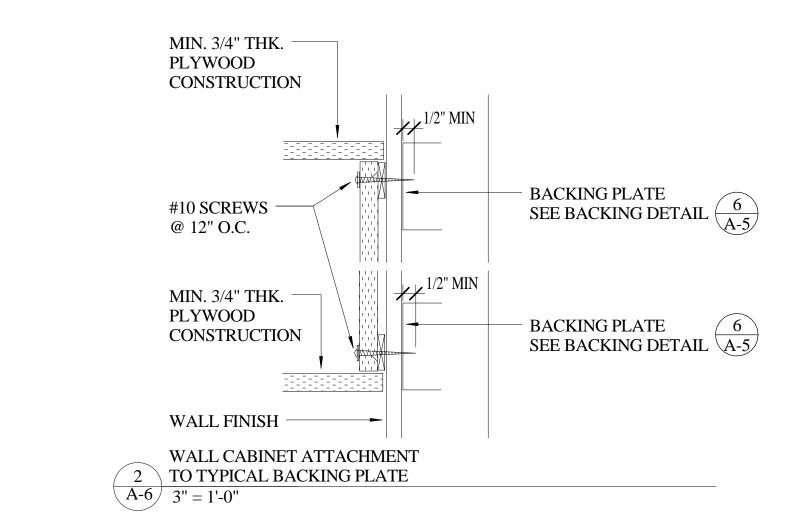
STORAGE ROOM TALL

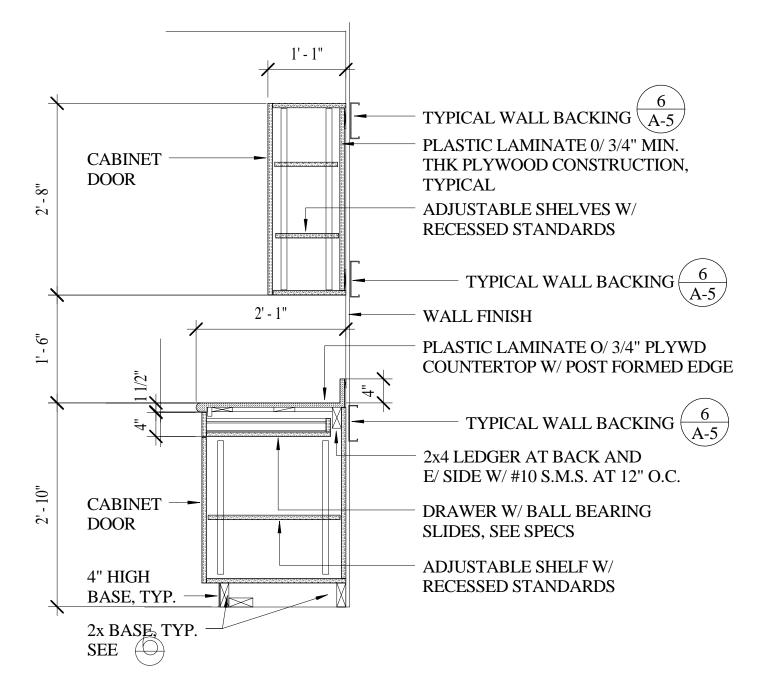
4 CABINETS W/ LOCKS

A-6 3/4" = 1'-0"



WORKSURFACE W/ WALL
SHELVING
A-6 3/4" = 1'-0"





TYPICAL BASE & WALL

CABINET W/ DRAWER & DOOR

A-6 3/4" = 1'-0"

PROJECT MANAGEMENT

ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

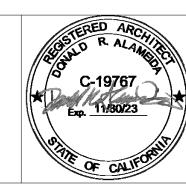
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT IMPROVENMENTS FOR ECONOMIC DEVELOPMENT AND CHILD SUPPORT SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Date

CASEWORK DETAILS

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-6

Scale

As indicated

GENERAL NOTES

1. CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING STANDARDS CODE (CBSC 2013).

THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE REQUIREMENTS.

3. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2013 (CBSC 2013). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2013, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK.

4. GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI SI00-07/S2-10; NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES.

METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY SUBSTITUTIONS.

5. ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH OF (Fy =) 30 KSI AND MINIMUM ULTIMATE STRENGTH OF (Fu =) 48 KSI.

6. THESE OPD REFER TO FASTENER TYPE AND SIZE BUT DO NOT SPECIFY OR ENDORSE A SPECIFIC MANUFACTURER.
THE RDP IN RESPONSIBLE CHARGE SHALL SELECT A MANUFACTURER AND SELECTED FASTENER CAPACITIES
SHALL MATCH OR EXCEED THE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET:

- a. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-10, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118 AND ALLOWABLE STRENGTH SHALL BE BASED ON INFORMATION PROVIDED IN CL1.31 AND CL1.32. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE
- b. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2013 CBC SECTION 1705A.2.
- c. POST- INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2013 CBC SECTIONS 1705A.3 & 1913A.7. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE SEE THE 2013 CBC SECTIONS 1616A.1.19 AND 1908A.1.1. LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENER USED.
- d. POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF). PAF'S SHALL SATISFY THE CURRENT AC70-ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE 2013 CBC SECTION 1908A.1.1. LISTING OF CURRENT ICC ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED.
- e. FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING AGENCIES ACCEPTABLE TO OSHPD.

ction Title: OSHPD STANDARD SUSPENDED CEILING DETAILS	OPD No:
eet Title: GENERAL NOTES - PAGE 1 OF 4	CL0.00

05/11/2017 OPD-0002-13: Reviewed for Code Compliance by Karim

Page 11 of 66

7. DESIGN CRITERIA

a. BUILDING CODE: 2013 CALIFORNIA BUILDING CODE (2013 CBC), ASCE 7-10, AISI S100-07/S2-10, ASTM E580-14, C635-13a, AND C636-13. FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH 2013 CBC SECTION 1605A.3.1.

- b. FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC REPORTS BY SEVERAL MANUFACTURERS.
 c. THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS, TO WHICH THE COMPONENTS
 ADDRESSED IN THIS DOCUMENT ARE ANCHORED, HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS
 IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF
- THESE SUPPORTING BUILDING ELEMENTS IS BEYOND THE SCOPE OF THE OPD.

 d. THIS OPD IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINERIES) AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CEILING FRAMING SYSTEM. HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WALLS ARE OUTSIDE THE SCOPE OF THIS OPD AND WILL REQUIRE PROJECT SPECIFIC DESIGN.
- 8. THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THE FIRE RESISTENCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.
- 9. "CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN ASTM
- A641 (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE STRENGTH:

 FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD FOR THE WIRE.
- b. THREE (3) TWISTS WITHIN 3" MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOWABLE LOAD.
- 10. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND E580 SECTION 5.1:a. THE CEILING GRID SYSTEM SHALL BE RATED HEAVY DUTY AS DEFINED BY ASTM C635.
- b. HANGER AND BRACING WIRES SHALL BE #12 GAGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED
- STEEL WIRES WITH CLASS 1 COATING. THEY MAY BÈ USED FOR UP TO AND INCLUDING 4'-0"x 4'-0" GRID SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER WIRE.

 c. MAIN RUNNERS AND CROSS RUNNERS ALONG WITH THEIR SPLICES, INTERSECTION CONNECTORS,
- AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION & TENSION, IN ACCORDANCE WITH ASTM 580 SECTION 5.1.2.
- 11. SUSPENSION SYSTEM INSTALLATION, SHALL COMPLY WITH ASTM C636 AND E580 SECTION 5.2:
- a. PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LESS, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.
- b. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS, IN ACCORDANCE WITH ASTM E580 SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4" INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE. AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
- c. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION AND ARE OUTSIDE THE SCOPE OF THIS OPD.
- d. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS EIGHT (8) INCHES OR LESS, THIS INTERCONNECTION IS NOT REQUIRED.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: GENERAL NOTES - PAGE 2 OF 4		CL0.01

05/11/2017 OPD-0002-13: Reviewed for Code Compliance by Karim Page 12 of 66

12. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS:

- a. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS.
- b. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ. FT.
- c. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING.
- 13. LATERAL FORCE BRACING:
 LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON.
- EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS, WHEN PERIMETER SUPPORT IN ACCORDANCE WITH ASTM E580 ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
- a. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.
- b. LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH CL2.20 THROUGH CL2.22 AND CL2.30 FROM EACH WALL AND AT THE EDGES OF ANY CHANGE OF ELEVATION OF THE CEILING.
- c. THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT.
- d. STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.
- 14. ATTACHMENT OF HANGER AND BRACING WIRES:
- a. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS
- b. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2" INCHES
- c. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.
- d. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES CONDUITS, FTC
- e. HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMETARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
- f. HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL REQUIRE PROJECT
- g. WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 440 LBS. IN TENSION IN THE DIRECTION OF THE WIRE. PAF IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
Sheet Title: GENERAL NOTES - PAGE 3 OF 4		CL0.02

OPD-0002-13: Reviewed for Code Compliance by Karim

15. CEILING FIXTURES, TERMINALS, AND DEVICES:

05/11/2017

- a. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS/GRILLS, OR OTHER DEVICES
 (REFERRED TO ALL BY COMMON TERM FIXTURES HERE AFTER).
- b. ALL FIXTURES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.
 c. ALL FIXTURES SHALL BE ATTACHED TO THE SUSPENDED CEILING SYSTEM BY MECHANICAL MEANS, UNLESS INDEPENDENTLY SUPPORTED. THE ATTACHMENT DEVICE SHALL HAVE THE CAPACITY OF 100% OF FIXURE WEIGHT ACTING IN ANY DIRECTION. A MINIMUM OF TWO ATTACHMENT DEVICES ARE REQUIRED FOR EACH
- d. SURFACE MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM 14 GAGE. A NO.12 GAUGE SAFETY WIRES SHALL BE ATTACHED BETWEEN THE CLAMPING DEVICE AND TO THE STRUCTURE ABOVE. IN NO CASE SHALL THE FIXTURES EXCEED THE DESIGN CAPACITY OF THE SUPPORTING MEMBERS.
- e. ALL LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LB. SHALL HAVE ONE NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
- f. ALL FIXTURES WEIGHING GREATER THAN 10 LB BUT LESS THAN OR EQUAL TO 56 LB. SHALL HAVE TWO NO. 12 GAUGE SAFETY WIRE CONNECTED FROM FIXURE HOUSING TO STRUCTURE ABOVE. IT IS NOT NECESSARY FOR THESE SAFETY WIRES TO BE TAUT.
- g. ALL FIXTURES WEIGHING GREATER THAN 56 LB. SHALL BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE BY APPROVED HANGERS.
- h. PENDENT-HUNG FIXTURES SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE USING NO LESS THAN NO. 9-GAUGE WIRE OR AN APPROVED ALTERNATE SUPPORT. THE CEILING SUSPENSION SYSTEM SHALL NOT PROVIDE ANY DIRECT SUPPORT.
- i. ALL RECESSED OR DROP-IN FIXTURES SHALL BE SUPPORTED DIRECTLY FROM FIXTURE HOUSING TO THE STRUCTURE ABOVE WITH A MINIMUM OF TWO NO. 12 GAUGE WIRES LOCATED AT DIAGONALLY OPPOSITE CORNERS. LEVELLING OR POSITIONING OF FIXTURES MAY BE PROVIDED BY CEILING GRID. FIXTURE SUPPORT WIRES MAY BE SLIGHTLY LOOSE TO ALLOW THE FIXTURE TO SEAT IN THE GRID SYSTEM. FIXTURES SHALL NOT BE SUPPORTED FROM MAIN RUNNERS OR CROSS RUNNERS IF THE WEIGHT OF THE FIXTURES CAUSES TOTAL DEAD LOAD TO EXCEED THE DEFLECTION CAPABILITY OF THE CEILING SUSPENSION SYSTEM.

16. ADDITIONAL REQUIREMENTS:

05/11/2017

- a. CEILINGS THAT ARE PART OF A FIRE RATED ASSEMBLY: PROVIDE A DETAIL AND DESIGN NUMBER FOR RATED CEILING ASSEMBLIES FROM AN APPROVED TESTING AGENCY. THE COMPONENTS AND INSTALLATION DETAILS CONFORM IN EVERY RESPECT WITH THE LISTED DETAIL AND NUMBER. DETAILS SHALL CLEARLY DEPICT ALL COMPONENTS, INCLUDING INSULATION MATERIALS, FRAMING AND ATTACHMENT OF THE DESIGN SO THAT THE ASSEMBLY CAN BE CONSTRUCTED AND INSPECTED ACCORDINGLY. POP RIVETS, SCREWS, OR OTHER ATTACHMENTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY DETAILED ON THE DRAWINGS AND APPROVED BY APPROVED TESTING AGENCY.
- b. METAL AND OTHER PANELS: METAL PANELS AND PANELS WEIGHING MORE THAN 1/2 PSF, OTHER THAN MINERAL FIBER ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION RUNNERS.
- c. BUILDING EXIT WAYS: CEILINGS IN EXIT WAYS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 13.5.6.2.2(1) OF ASCE 7-10 AS AMENDED BY 2013 CBC SECTION 1616A.1.20. SPLICES OR INTERSECTION OF RUNNERS SHALL BE ATTACHED WITH THROUGH CONNECTORS SUCH AS POP RIVETS, SCREWS, PINS, PLATES WITH END TABS OR OTHER APPROVED CONNECTORS.

ction Title: OSHPD STANDARD SUSPENDED CEILING DETAILS		OPD No:
eet Title: GENERAL NOTES - PAGE 4 OF 4		CL0.03
		1

OPD-0002-13: Reviewed for Code Compliance by Karim

Page 14 of 66

Page 13 of 66

OPD-0002-13: Reviewed for Code Compliance by Karim

1"x2"x24GA CONT

ANGLE @ PERIMETER

Page 29 of 66

OPD No:

CL2.20

12 GA. BRACING WIRE W/MIN.

ENDS OF WIRE CONNECTED

TO MAIN RUNNERS 90°

APART, 4-TOTAL AT EACH

STRUT (U.N.O.) SEE

4-TIGHT TURNS IN 1 1/2" BOTH

SEE DETAIL CL3.10 &

OF BRACING WIRES

AND STRUT

MAIN RUNNER

CL3.20 FOR LOCATION

CL2.10

Page 28 of 66

ATTACHED

CL2.60) ATTACHED JOINT

CROSS RUNNERS TYP.

MAIN RUNNERS

BRACING WIRE

LOCATION-TYP

STABILIZER BARS

CROSS TEES OR STRUTS

8" MAX. FROM WALL TYP.

ALONG FREE JOINTS

12 GA VERTICAL HANGERS AT

RUNNER WITH MINIMUM 3-TIGHT

TURNS IN 3" AT BOTH ENDS, SEE

10° TO 45° -

2. STRUTS SHALL NOT REPLACE HANGER WIRES

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS

OPD-0002-13: Reviewed for Code Compliance by Karim

64 SQ FT MAX

Sheet Title: SUSPENDED CEILING BRACING

ASSEMBLY

05/11/2017

JOINT

05/11/2017

1. BRACING WIRES AND COMP. STRUT SHALL OCCUR

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS

 $1.73 < S_{po} < 2.50 \text{ AND z/h} <= 1.0$

Sheet Title: TYPICAL CEILING PLAN FOR

AT EVERY 64 SQ. FT. MAX. IN ROOMS OVER 64 SQ. FT.

2. RDP MAY ELECT TO SPECIFY TIGHTER SPACING BETWEEN BRACING WIRES AND COMP. STRUTS TO ALLOW SMALLER

ANCHORS PER SCHEDULES ON SHEETS CL4.31 & CL6.60.

CROSS RUNNER -

1. SEE SUSPENDED CEILING NOTES #13 & #14 ON CL0.02

3. FOR CONDITIONS AT CORRIDOR SEE DRAWING NO. CL2.30

4'-0" O.C. EACH WAY AT MAIN

RIGID VERT. STRUT

SEE DET.

29 of 66

05/11/2017 OPD-0002-13: Reviewed

Sheet Title: TYPICAL CEILING SECTION AT EXITWAY

ULTIMATE SHEAR STRENGTH OF 300#

CORRIDORS

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS

FOR CONNECTION TO

3/4" MIN. EDGE

DISTANCE, TYP.

MÁCHINE BOLT

CROSS RUNNER

HANGER WIRE

MAIN RUNNER

SECTION

OPD-0002-13: Reviewed for Code Compliance by Karim

BEYOND

COPE FLANGE OR FLATTEN TO ALLOW

Section Title: OSHPD STANDARD SUSPENDED CEILING DETAILS

Sheet Title: SUSPENDED ACOUSTICAL CEILING

8'-0" MAX

FROM ATTACHED JOINT

MAIN RUNNER

1"x2"x24GA CONT ANGLE W/

(1) #10 SMS INTO 20GA MIN

WALL STUD (24" OC MAX)

STEEL POP RIVET

@ 4'-0" OC MAX

SEE NOTE #1

ATTACHED JOINT

S_{DS} <u>≤</u> 1.15

 $1.15 < S_{DS} \le 1.73$ 14.0 plf

 $1.73 < S_{DS} \le 2.50$ 20.9 plf

2. SEISMIC BRACING WIRES AND STRUTS IN ACCORDANCE WITH PAGES

TYP. HANGER

WIRE @ 4'-0" O.C.

CHANNEL TYPE STRUT

05/11/2017

8" MAX

INSTALLATION OF ACOUSTICAL TILE -

(2) 1/4"DIA.

(CL5.10)

4'-0" OC

MAX

- STRUCTURE

400S137-33 (20 GA)

CENTERED OVER

CROSS RUNNER

BRACE WIRES

(CL4.10)

4 TIGHT TURNS

IN 1 1/2" TYP.

MAIN RUNNER

BRACE WIRE

CROSS RUNNER

CL3.10

Page 38 of 66

3/4" MIN.CLR

4'-0" MAX FROM FREE JOINT

TYP HANGER

WIRE @ 4'-0" O.C.

WIRES PER CL2.10,

STRUT AND (4) BRACE

SPACING PER CL2.30

HANGER AT 4'-0" O.C

STEEL POP RIVET

EXPANSION JOINT

@ 4'-0" OC MAX

1"x2"x24GA

CONT ANGLE

CROSS

RUNNER

EA. WAY AT MAIN

FOUR BRACING WIRE PER CL2.10

RUNNFR

BEYOND

SEE ,

MAX

SLOTTED AND

STRUCTURE SEE /

HANGER WIRE

3 TIGHT TURNS

HANGER TYP.

IN 3" FOR

OPD-0002-13: Reviewed for Code Compliance by Karim

12'-0" MAX

ACCEPTABLE EXITWAY DETAILS

NOTES:

1. PERIMETER WALLS SHALL BE DESIGNED TO CARRY TRIBUTARY LATERAL FORCES PER TABLE

9.3 plf

CL2.20, CL2.21, AND CL2.22 SHALL BE PERMITTED IN LIEU OF DESIGNING PERIMETER WALLS FOR SEISMIC FORCES AND BRACING SYSTEM SHOWN ON PAGE CL2.30 AND THIS PAGE.

3. STEEL POP RIVET SHALL HAVE MINIMUM ALLOWABLE SHEAR STRENGTH OF 120# AND

BELOW. RDP TO VERIFY. RDP TO SPECIFY CONNECTION OF BACKING TO STUDS

Page 34 of 66

CL2.50

PROJECT MANAGEMENT

ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

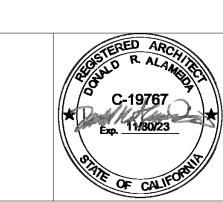
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Dat
		I

SUSPENDED CEILING LAYOUT AND DETAILS

Project number 2108

Date 10/14/23

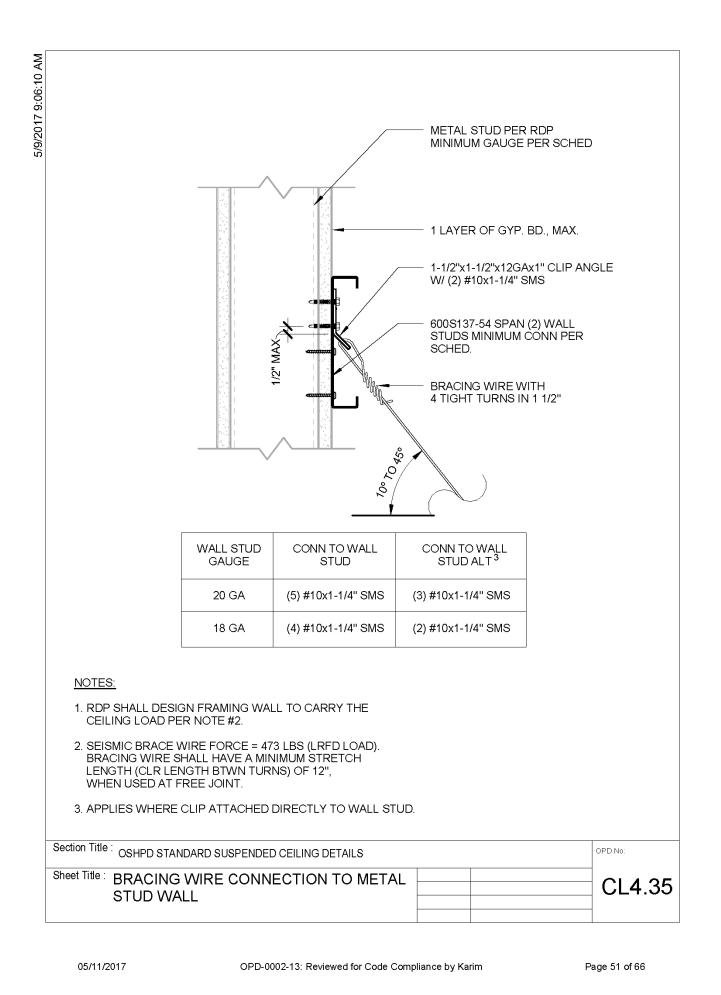
Drawn by Author

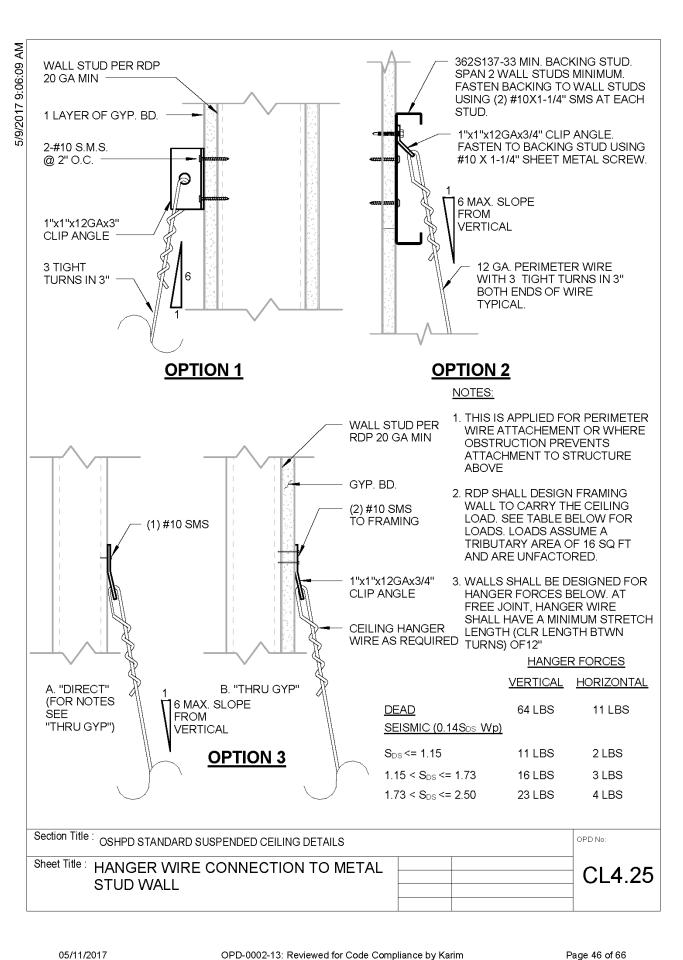
Checked by Checker

A-7 0

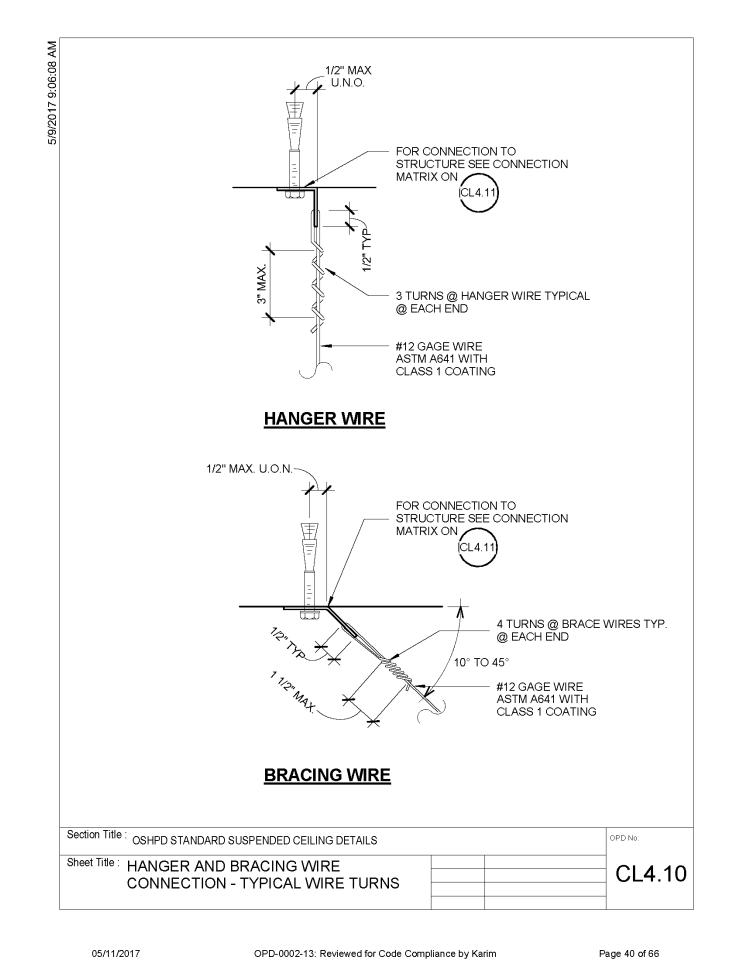
Scale

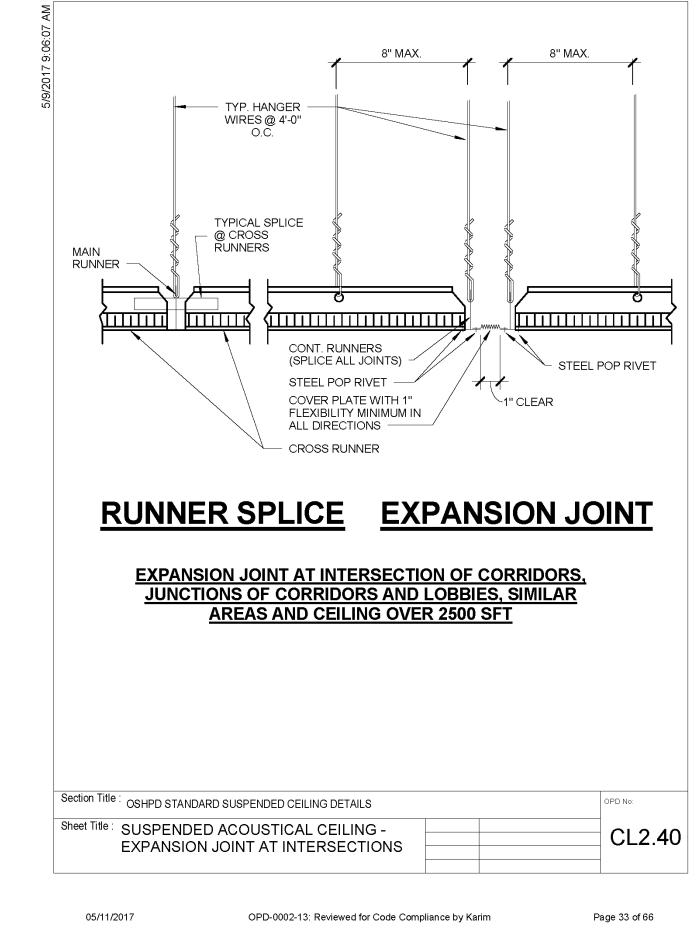
6/10/2025 9:53:55 AM

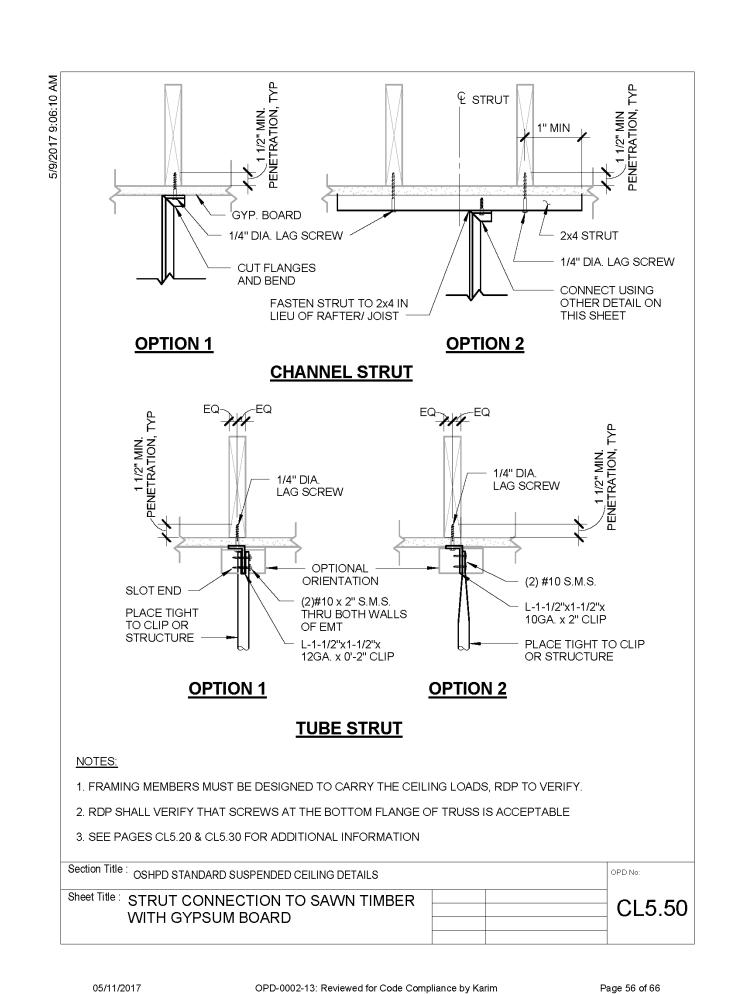




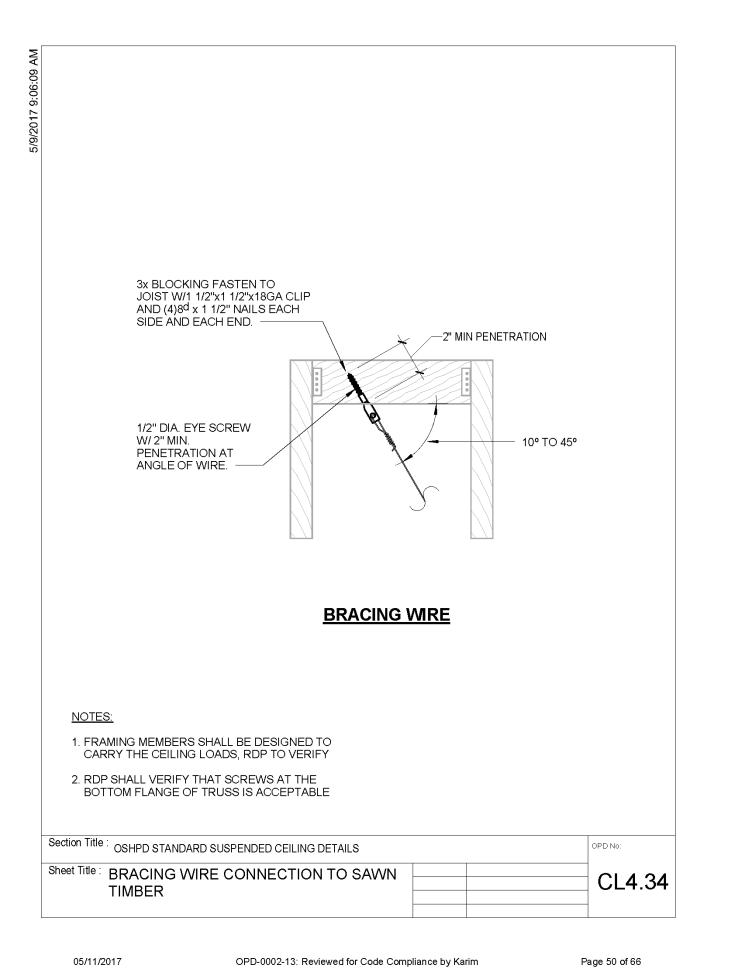
Page 46 of 66

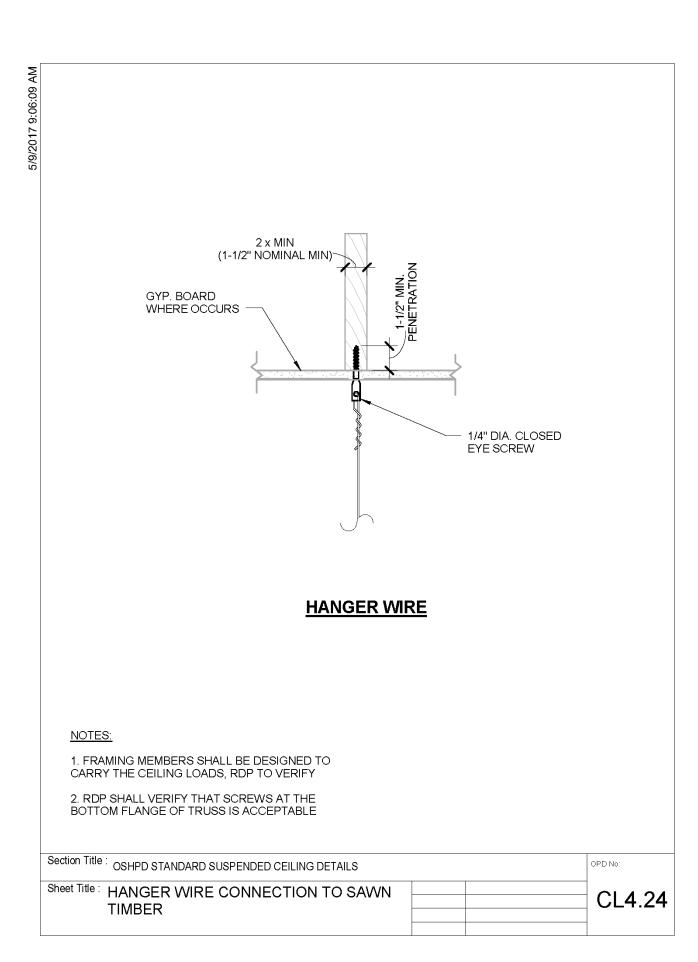






05/11/2017

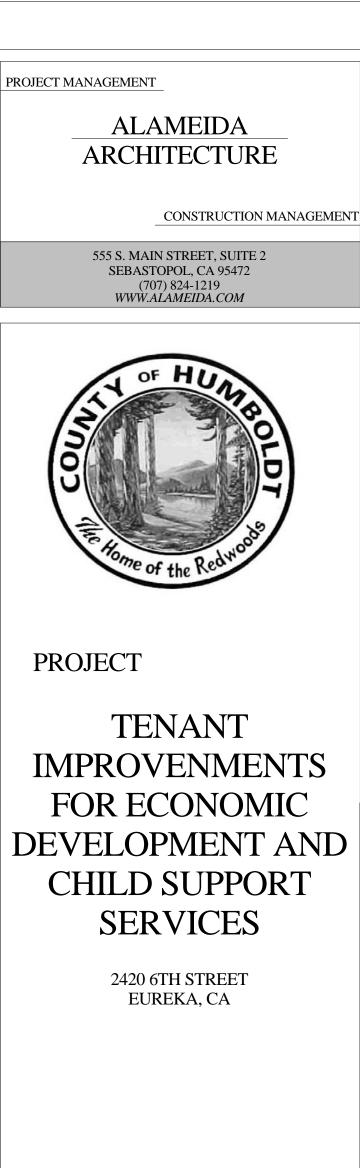




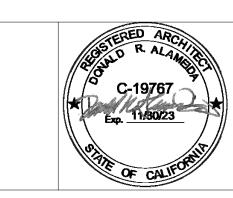
OPD-0002-13: Reviewed for Code Compliance by Karim

Page 45 of 66

05/11/2017



IMPROVENMENTS FOR ECONOMIC DEVELOPMENT AND CHILD SUPPORT



No.	Description	Date

SUSPENDED **ACCOUSTICAL** CEILING DETAILS

Project number	2108
Date	10/14/23
Drawn by	DRA
Checked by	DRA

Scale

A-7.1

SUSPENDED GYP BOARD CEILING CONSTRUCTION, WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 2013 CALIFORNIA BUILDING THE CONTRACTOR SHALL NOTIFY OSHPD AND THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE CONSTRUCTION DRAWINGS AND ANY OTHER PORTION OF THE CONSTRUCTION DOCUMENTS, FIELD CONDITIONS, OR WHERE ANY CONDITIONS ARISE NOT COVERED BY THESE DOCUMENTS WHEREIN WORK WILL NOT COMPLY WITH CODE REQUIREMENTS. : THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE HOSPITAL BUILDING IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARD CODE, 2013 (CBSC 2013). SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE APPROVED CONSTRUCTION DOCUMENTS WHEREIN THE WORK WILL NOT COMPLY WITH CBSC 2013, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY OSHPD BEFORE PROCEEDING WITH THE WORK. 4. GALVANIZED METAL STUDS, TRACKS AND SHEET STEEL SHALL CONFORM TO ASTM A653-11 MATERIAL, OR OTHER EQUIVALENT ASTM LISTED MATERIALS IN SECTION A2.1 OF THE AISI SI00-07/S2-10; NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS WITH SUPPLEMENT 2, DATED 2010, WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL (18 GAGE) AND LIGHTER AND MINIMUM YIELD STRENGTH OF 50 KSI FOR HEAVIER GAGES. METAL STUDS AND TRACKS SHALL BE OF SIZE, THICKNESS AND SECTION PROPERTIES SHOWN ON TABLES 1-1, 1-2 AND 1-3 OF THE AISI MANUAL, COLD-FORMED STEEL DESIGN, 2008 EDITION. THE RDP IN RESPONSIBLE CHARGE SHALL OBTAIN OSHPD APPROVAL FOR ANY SUBSTITUTIONS ELECTRICAL METALLIC TUBE (EMT) SHALL BE ANSI C80.3/UL 797 CARBON STEEL WITH G90 GALVANIZING. EMT SHALL HAVE MINIMUM YIELD STRENGTH OF (Fy =) 30 KSI AND MINIMUM ULTIMATE STRENGTH OF (Fu =) 48 KSI. 6. THESE OPD REFER TO FASTENER TYPE AND SIZE BUT DO NOT SPECIFY OR ENDORSE A SPECIFIC MANUFACTURER. THE RDP IN RESPONSIBLE CHARGE SHALL SELECT A MANUFACTURER AND SELECTED FASTENER CAPACITIES SHALL MATCH OR EXCEED THE STRENGTHS LISTED HEREIN. THE FOLLOWING REQUIREMENTS SHALL ALSO BE MET a. SHEET METAL SCREWS SHALL COMPLY WITH ASTM C 1513-10, ASME B18.6.4-98 (R2005) AND ICC-ES AC 118 AND ALLOWABLE STRENGTH SHALL BE BASED ON INFORMATION PROVIDED IN CG1.31 AND CG1.32. PENETRATION OF SCREWS THROUGH JOINED MATERIAL SHALL NOT BE LESS THAN THREE EXPOSED THREADS b. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 USING E60XX SERIES ELECTRODES. FIELD WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH 2013 CBC SECTION 1705A.2. c. POST- INSTALLED ANCHORS (E.G. EXPANSION ANCHORS, SCREW ANCHORS AND POWER ACTUATED

FASTENERS) SHALL HAVE SPECIAL INSPECTION AND TESTING IN ACCORDANCE WITH THE 2013 CBC SECTIONS 1705A.3 & 1913A.7. FOR QUALIFICATION, DESIGN AND USE OF POST-INSTALLED ANCHORS IN CONCRETE SEE THE

2013 CBC SECTIONS 1616A.1.19 AND 1908A.1.1. LISTING OF CURRENT ICC-ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENER

POWER-ACTUATED FASTENERS (PAF), POWDER DRIVEN FASTENERS (PDF), POWER DRIVEN PINS (PDP) AND

1908A.1.1. LISTING OF CURRENT ICC ES EVALUATION REPORTS (OR REPORTS FROM OTHER TESTING AGENCIES

FOR PAF INSTALLED IN STEEL THE FASTENER PENETRATION SHALL HAVE THE ENTIRE POINTED END OF THE

FASTENER DRIVEN THROUGH THE STEEL MEMBER, EXCEPT AS NOTED IN CURRENT REPORTS FROM TESTING

CG0.00

Page 25 of 75

SHOT PINS ALL REPRESENT THE SAME FASTENER AND WILL HEREAFTER BE REFERRED TO AS POWER ACTUATED FASTENERS (PAF) PAF'S SHALL SATISFY THE CURRENT AC70-ACCEPTANCE CRITERIA FOR FASTENERS POWER-DRIVEN INTO CONCRETE, STEEL AND MASONRY ELEMENTS AND THE 2013 CBC SECTIONS

ACCEPTABLE TO OSHPD) SHALL BE REQUIRED FOR FASTENERS USED

AGENCIES ACCEPTABLE TO OSHPD.

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS

Sheet Title: GYP-BOARD SUSPENDED CEILING PAGE

JUNCTIONS OF CORRIDORS WITH LOBBIES OR OTHER SIMILAR AREAS. b. FOR CEILING AREAS EXCEEDING 2500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2500 SQ. FT. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING. SLEEVE OR ADAPTER THROUGH THE CELLING TILE TO ALLOW FREE MOVEMENT OF ONE (1). INCH IN ALL HORIZONTAL DIRECTIONS. A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE 1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE OR ADAPTER. SUCH FLEXIBLE SPRINKLER HOSE SHALL BE ADEQUATELY SUPPORTED FROM SOFFIT SO AS NOT TO EXCEED THE MAXIMUM TRIBUTARY WEIGHT OF THE CEILING. 13. LATERAL FORCE BRACING: LATERAL FORCE BRACING IS REQUIRED IN ACCORDANCE WITH THIS SECTION FOR ALL CEILING AREAS, UON. EXCEPTION: LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQ. FT. OR LESS, WHEN PERIMETER SUPPORT ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES a. PROVIDE LATERAL-FORCE BRACING ASSEMBLIES CONSISTING OF A STRUT AND FOUR (4) #12 GAGE BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER. b. LATERAL-FORCE BRACING ASSEMBLIES SHALL BE SPACED IN ACCORDANCE WITH CG2.20 THROUGH CG2.22 AND CG2.30 FROM EACH WALL AND AT THE EDGES OF ANY CHANGE OF ELEVATION OF THE CEILING. THE SLOPE OF BRACING WIRES MAY BE FROM 10 TO 45 DEGREES BUT MAY NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT. d. STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB. 14. ATTACHMENT OF HANGER AND BRACING WIRES: a. FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES, HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS. b. FASTEN #12 BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1 1/2" . HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE. d. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, . HANGER WIRES SHALL NOT BE ATTACHED TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMETARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS f. HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL REQUIRE PROJECT SPECIFIC DESIGN. 3. WHEN DRILLED-IN CONCRETE ANCHORS OR PAF ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ ANCHOR ASSEMBLIES SHALL BE FIELD TESTED FOR 440 LBS. IN TENSION IN THE DIRECTION OF THE WIRE. PAF IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS OPD No: Sheet Title: GYP-BOARD SUSPENDED CEILING PAGE CG0.02 3 OF 5 05/11/2017 OPD-0003-13: Reviewed for Code Compliance by Karim Page 27 of 75

12. EXPANSION JOINTS, SEISMIC SEPARATIONS, AND PENETRATIONS:

a. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS OPD No: Sheet Title: GYP-BOARD SUSPENDED CEILING PAGE CG0.04 5 OF 5 05/11/2017 OPD-0003-13: Reviewed for Code Compliance by Karim Page 29 of 75

17. GYPSUM BOARD INSTALLATION SHALL COMPLY WITH ASTM C840-11:

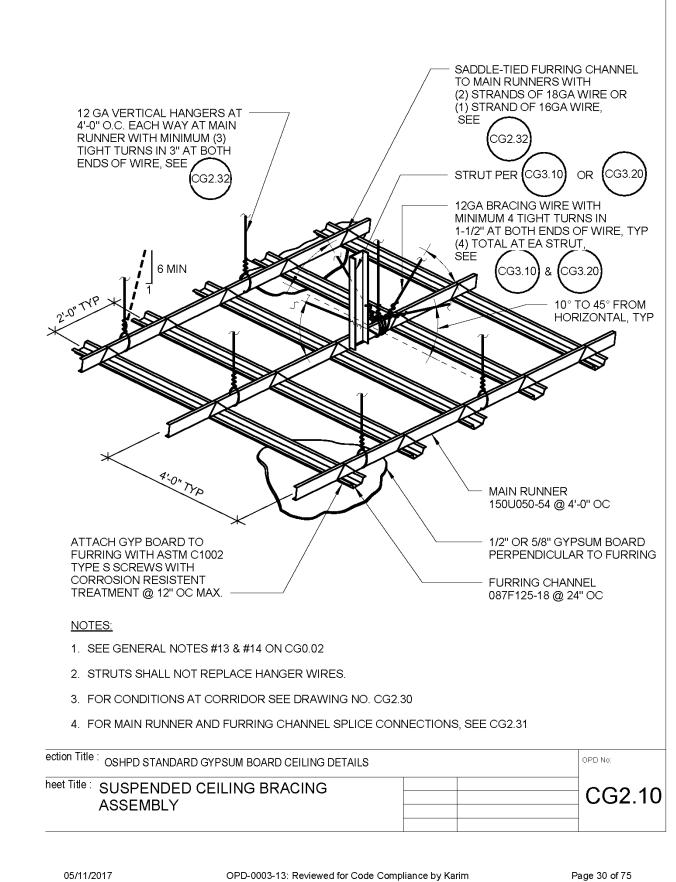
IN ACCORDANCE WITH ASTM C840-11.

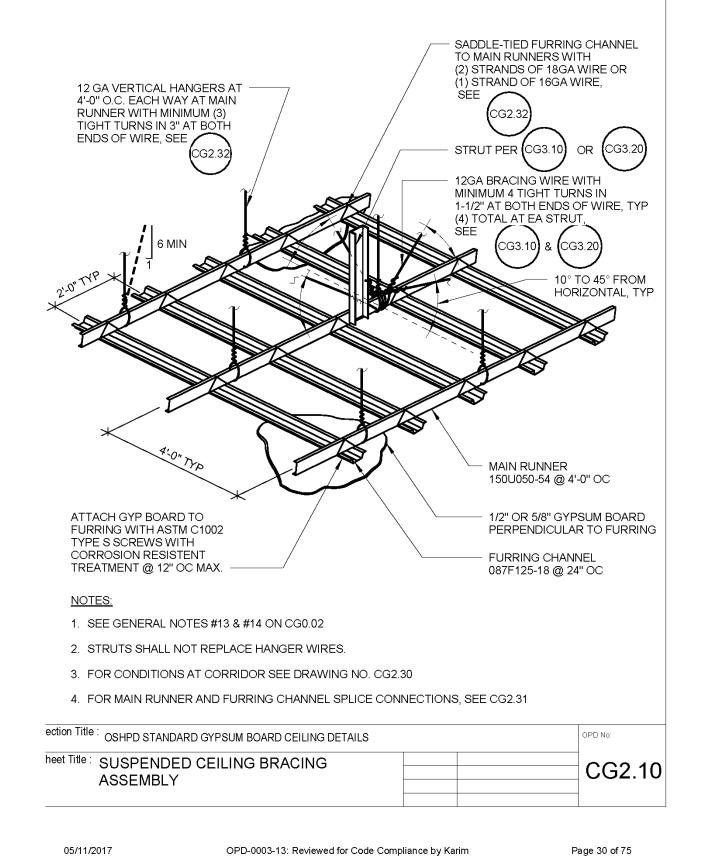
a. GYPSUM BOARD SHALL CONSIST OF SINGLE-PLY 1/2" OR 5/8" THICK IN ACCORDANCE WITH ASTM C11-10a.

c. GYPSUM BOARD SHALL BE ATTACHED TO FURRING/FRAMING WITH ASTM C1002-07 TYPE S (ASTM A568-11b

GRADES 1018 TO 1022) SCREWS (NOT LESS THAN, NO. 6, WITH MAJOR DIAMETER NOT LESS THAN 0.136 IN).

b. GYPSUM BOARD SHALL BE INSTALLED PERPENDICULAR TO FURRING WITH SCREWS AT 12" ON CENTER MAXIMUM,





05/11/2017

1 OF 5

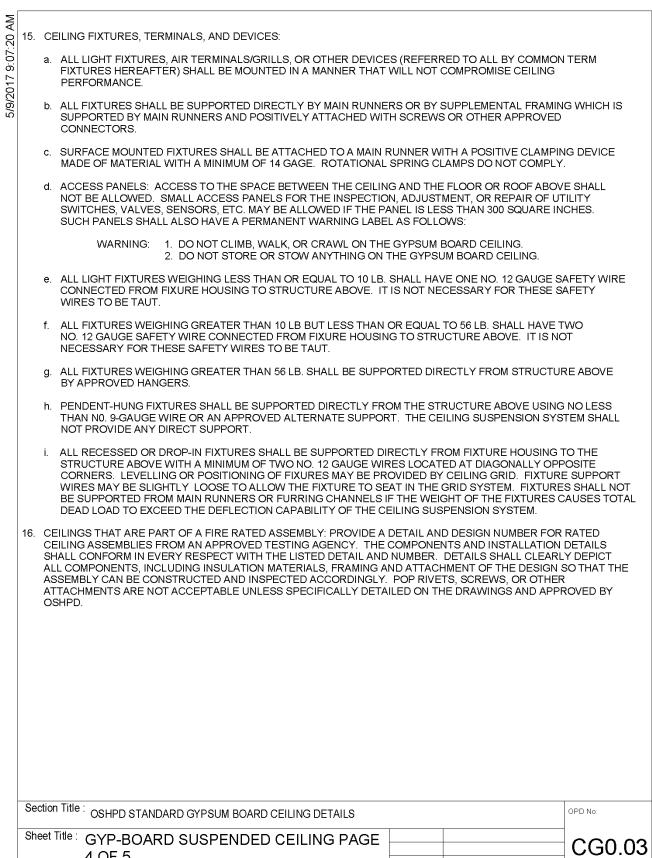
a. BUILDING CODE: 2013 CALIFORNIA BUILDING CODE (2013 CBC), ASCE 7-10, AISI S100-07/S2-10, AND ASTM C754-11. FOR LOAD COMBINATIONS, ALLOWABLE STRESS DESIGN SHALL BE IN ACCORDANCE WITH 2013 CBC

OPD-0003-13: Reviewed for Code Compliance by Karim

- b. FASTENER CAPACITIES TABLES WERE DEVELOPED BASED ON ICC REPORTS BY SEVERAL MANUFACTURERS.
- THE DESIGN ASSUMES THAT BUILDING ELEMENTS AND SUPPORTS. TO WHICH THE COMPONENTS ADDRESSED IN THIS DOCUMENT ARE ANCHORED. HAVE SUFFICIENT CAPACITY TO CARRY THE LOADS IMPOSED BY THE COMPONENTS IN COMBINATION WITH ALL OTHER LOADS. EVALUATION OF THE CAPACITY OF THESE SUPPORTING BUILDING ELEMENTS IS BEYOND THE SCOPE OF THE OPD.
- d. THIS OPD IS LIMITED TO CEILING ASSEMBLIES HAVING MAXIMUM DEAD WEIGHT OF 4 PSF, INCLUDING LIGHTING FIXTURES (LUMINERIES) AND MECHANICAL SERVICES, EACH WEIGHING LESS THAN 56 LBS AND ATTACHED TO CELLING FRAMING SYSTEM HEAVIER SYSTEM AND THOSE SUPPORTING LATERAL FORCES FROM PARTITION WALLS ARE OUTSIDE THE SCOPE OF THIS OPD AND WILL REQUIRE PROJECT SPECIFIC DESIGN.
- 8. THE RDP IN RESPONSIBLE CHARGE SHALL VERIFY THE FIRE RESISTENCE AND ACOUSTICAL RATINGS FOR ALL CEILING ASSEMBLIES.
- 9. "CEILING WIRE" SHALL CONFORM WITH GALVANIZED SOFT ANNEALED MILD STEEL WIRE AS DEFINED IN ASTM A641 (CLASS 1 COATING) WITH 70 KSI MINIMUM TENSILE STRENGTH:
- a. FOUR (4) TWISTS OF WIRE WITHIN 1.5" DEVELOPS THE ALLOWABLE LOAD FOR THE WIRE.
- b. THREE (3) TWISTS WITHIN 3" MAY BE USED TO DEVELOP THE MAXIMUM 50% OF ALLOWABLE LOAD.
- 10. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C754:
- a. MAIN RUNNNERS SHALL CONSIST OF 16 GAGE 1-1/2" COLD ROLLED U-CHANNEL 150U050-54 SPACED AT 4'-0" OC
- MAX. MAIN RUNNERS SHALL BE SUPPORTED BY HANGER WIRES AT 4'-0" OC MAX AND WITHIN 6" FROM EA END.
- b. FURRING CHANNEL SHALL CONSIST OF 25 GAGE 7/8" (HAT) FURRING CHANNELS (087F125-18) at 2'-0" OC MAX. FURRING CHANNELS SHALL BE SADDLE TIED TO MAIN RUNNERS WITH 16 GAGE TIE WIRE OR A DOUBLE STRAND OF 18 GAGE TIE WIRE.
- c. MAIN RUNNERS SHALL BE SPLICED BY LAPPING IN ACCORDANCE WITH CG2.31.
- d. FURRING CHANNELS SHALL BE SPLICED BY LAPPING IN ACCORDANCE WITH CG2.31.
- e. MAIN RUNNERS AND FURRING CHANNELS ALONG WITH THEIR SPLICES, INTERSECTION CONNECTORS. AND EXPANSION DEVICES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 270 LBS. IN COMPRESSION & TENSION.
- . HANGER AND BRACING WIRES SHALL BE #12 GAGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING. THEY MAY BE USED FOR UP TO AND INCLUDING 4-0" X 4-0" GRID SPACING ALONG AND ATTACHED TO MAIN RUNNERS. SPLICES ARE NOT PERMITTED IN ANY HANGER WIRE.
- g. WIRE HANGERS SHALL BE SADDLE-TIED AROUND MAIN RUNNERS SO AS TO PREVENT TURNING OR TWISING OF
- 11. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C754:
- a. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS. MAIN RUNNERS AND FURRING CHANNEL SHALL BE AT LEAST 1 INCH CLEAR OF OTHER WALL. IF WALLS RUN DIAGONAL TO THE CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN RUNNER AND FURRING SHOULD BE FREE WITH STANDARD CLEARANCES.
- b. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN TWO (2) INCHES. USE OF ANGLES WITH SMALLER WIDTHS IN CONJUNCTION WITH PERIMETER CLIPS SHALL REQUIRE AN ALTERNATE METHOD OF COMPLIANCE WITH ADEQUATE JUSTIFICATION AND ARE OUTSIDE THE SCOPE OF

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS		OPD No:
Sheet Title: GYP-BOARD SUSPENDED CEILING PAGE 2 OF 5		CG0.01

OPD-0003-13: Reviewed for Code Compliance by Karim Page 26 of 75

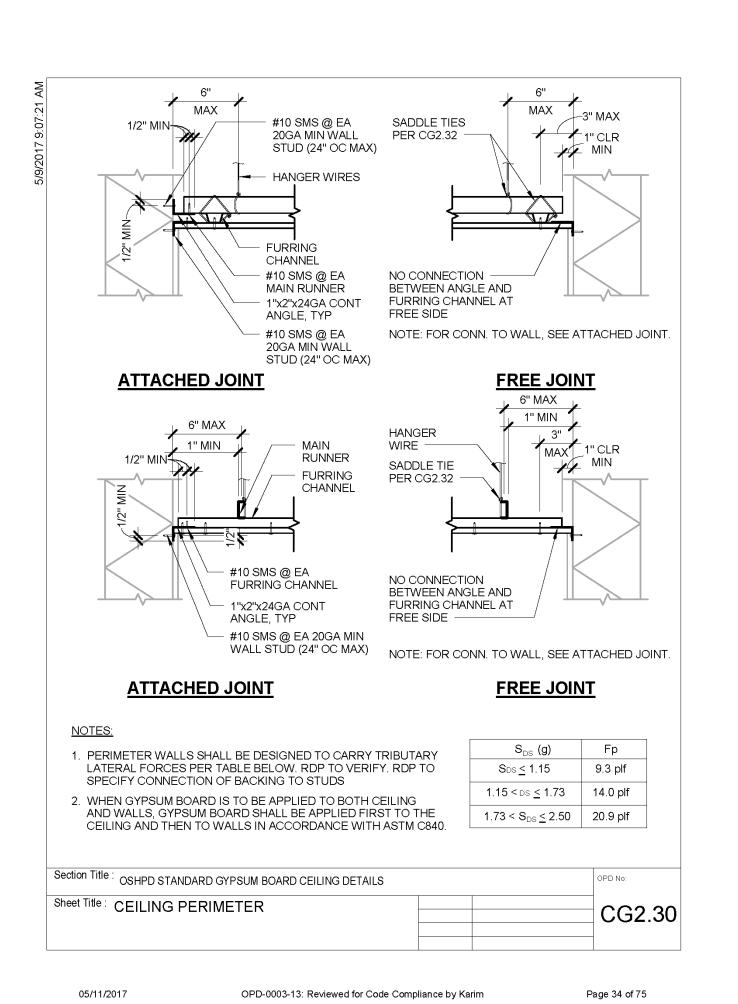


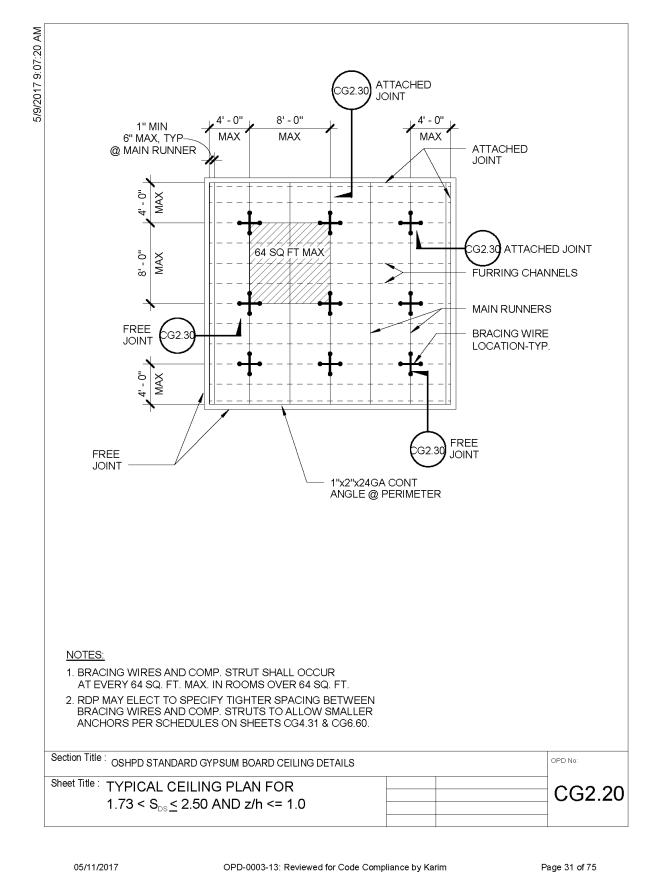
OPD-0003-13: Reviewed for Code Compliance by Karim

Page 28 of 75

4 OF 5

05/11/2017





FOR ECONOMIC DEVELOPMENT AND CHILD SUPPORT **SERVICES 2420 6TH STREET** EUREKA, CA Description

PROJECT MANAGEMENT

PROJECT

ALAMEIDA

ARCHITECTURE

555 S. MAIN STREET, SUITE 2

SEBASTOPOL, CA 95472

(707) 824-1219

WWW.ALAMEIDA.COM

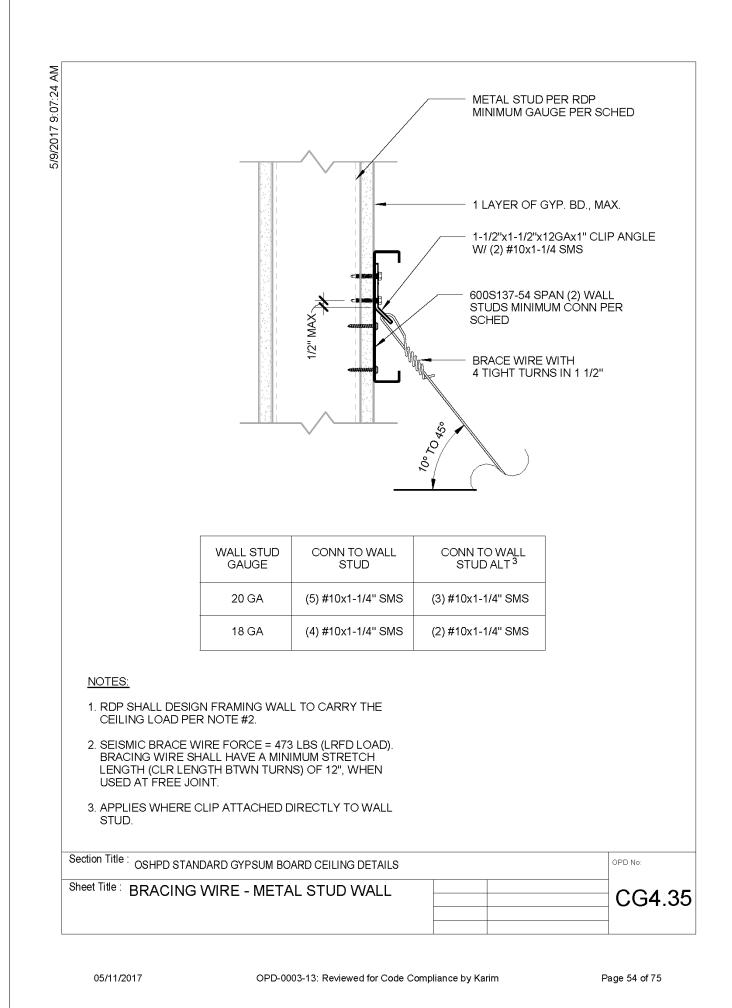
TENANT

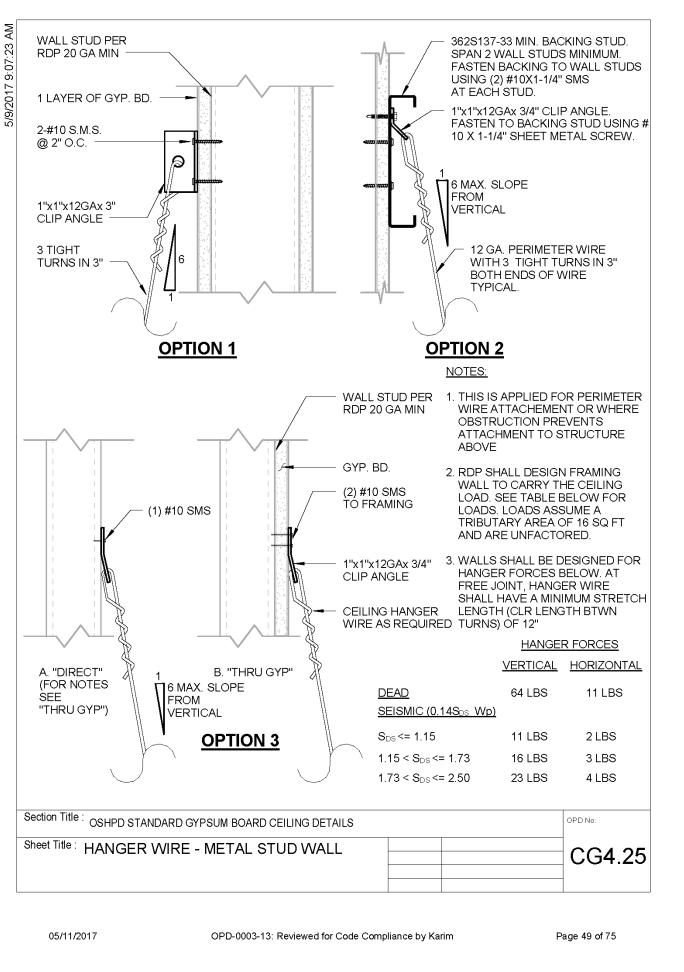
IMPROVENMENTS

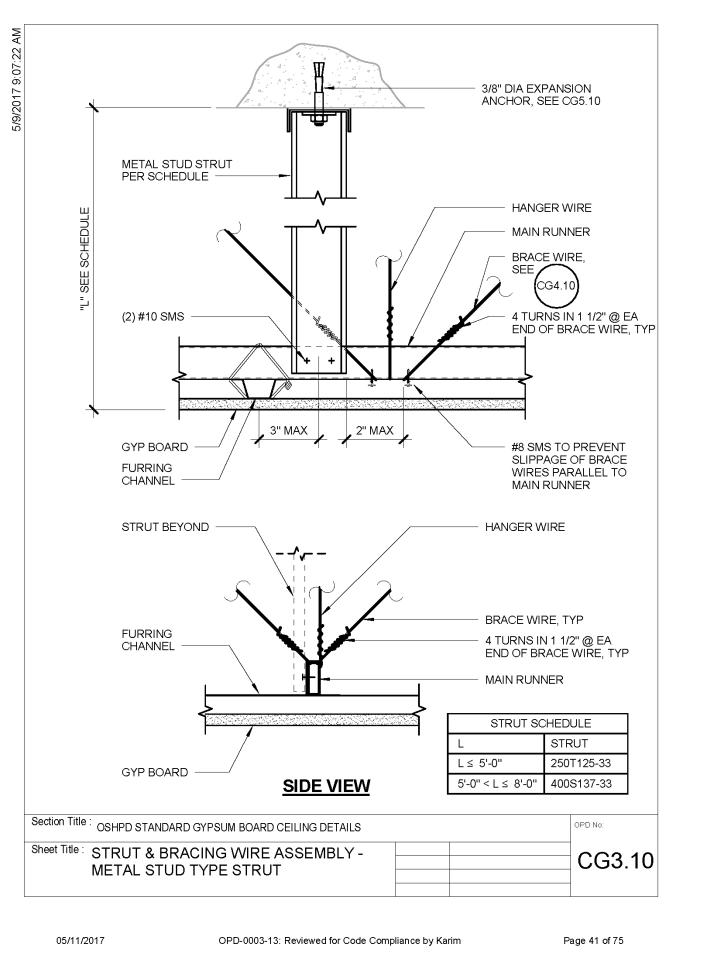
CONSTRUCTION MANAGEMENT

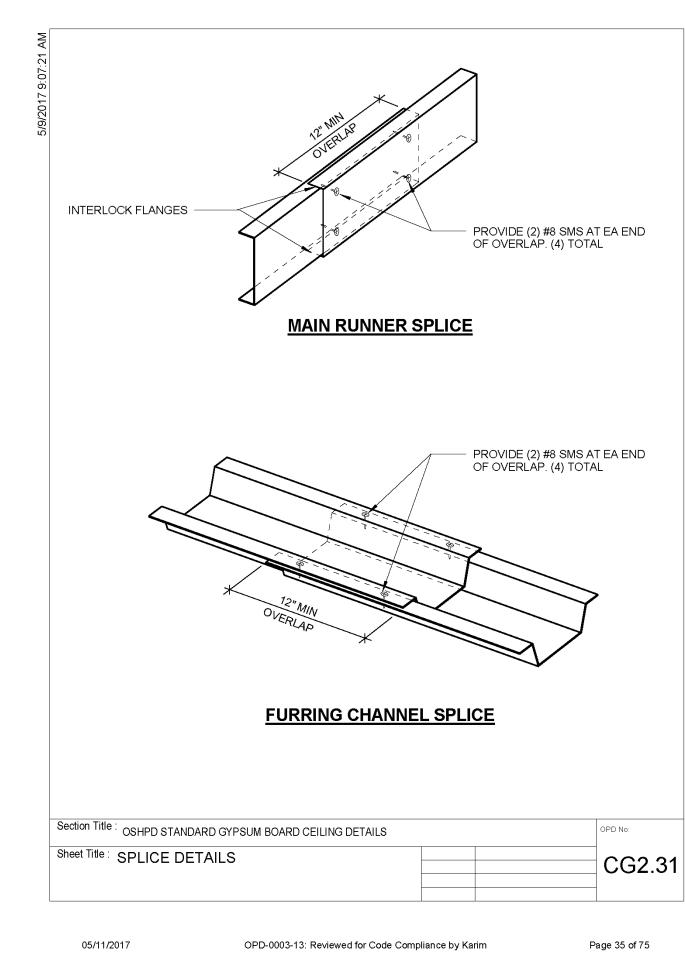
SUSPENDED DRYWALL LAYOUT

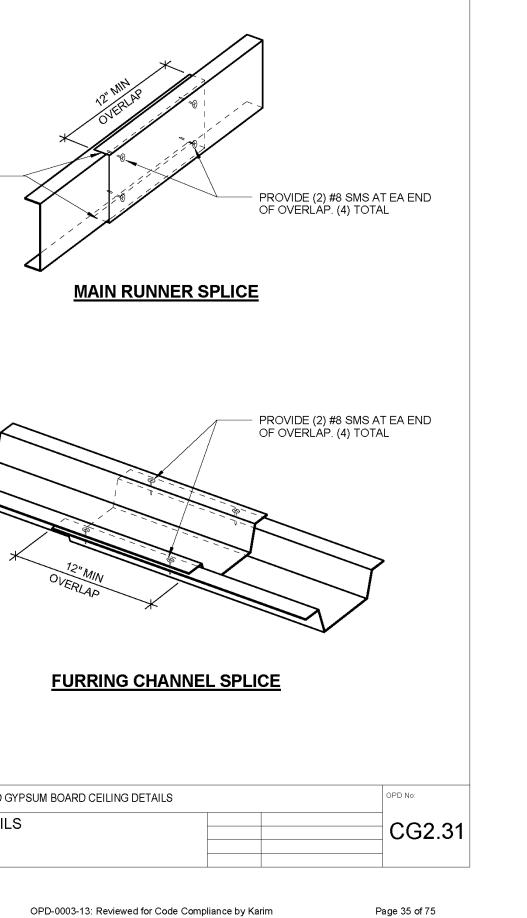
Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker











RECESSED

LIGHT FIXTURE

MAX WT = 56#

PROVIDE (1) OR MORE 150U050-54 AS

REQUIRED. SEE GENERAL NOTE #15b.

SUPPORT BY FURRING CHANNEL IS

MAIN RUNNER

GYP BOARD

(2) #10 SMS ATTACH TO

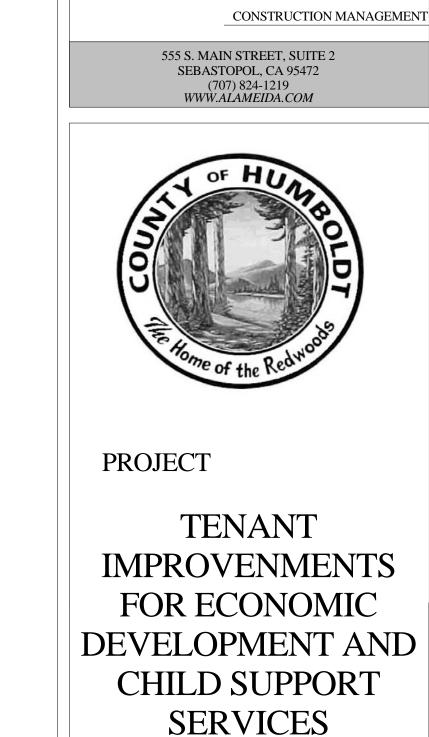
WEB OF MAIN RUNNER,

TYP EA END.

MAIN RUNNER

NOT PERMITTED.

8" MAX

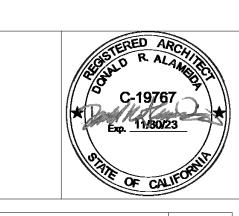


PROJECT MANAGEMENT

ALAMEIDA

ARCHITECTURE

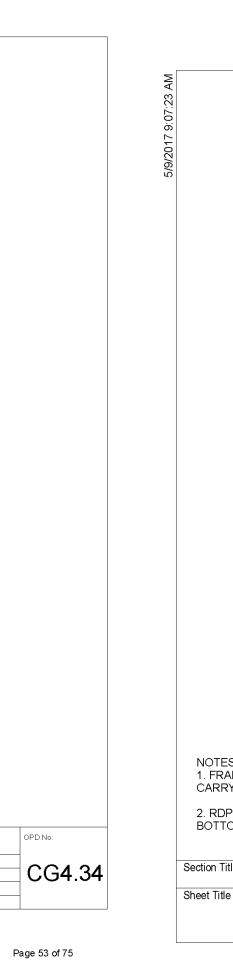
2420 6TH STREET EUREKA, CA



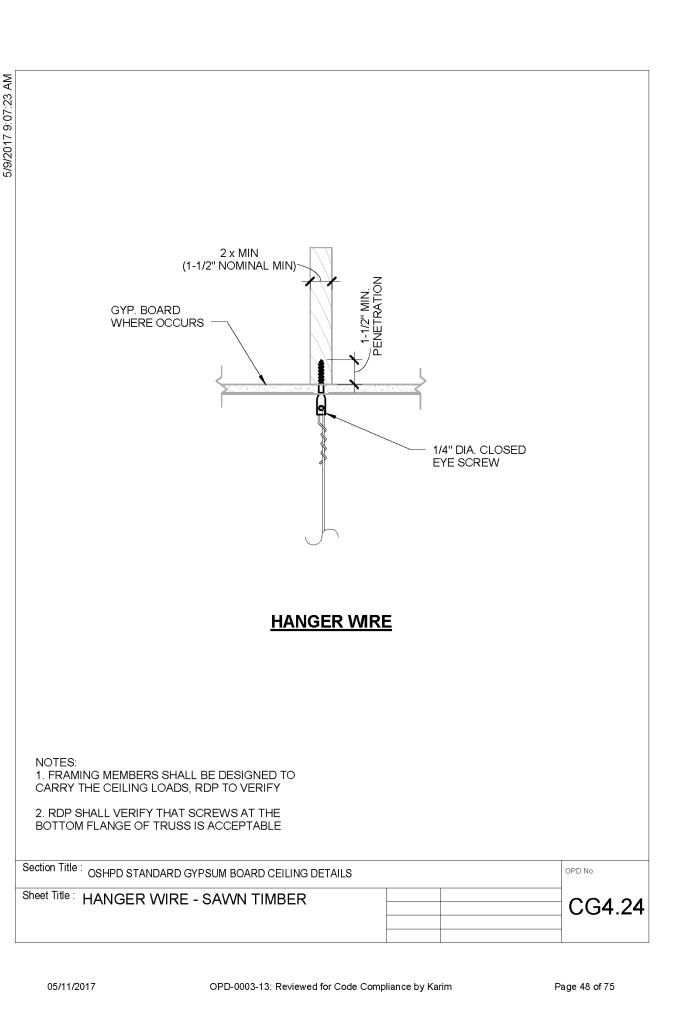
No.	Description	Date
		+

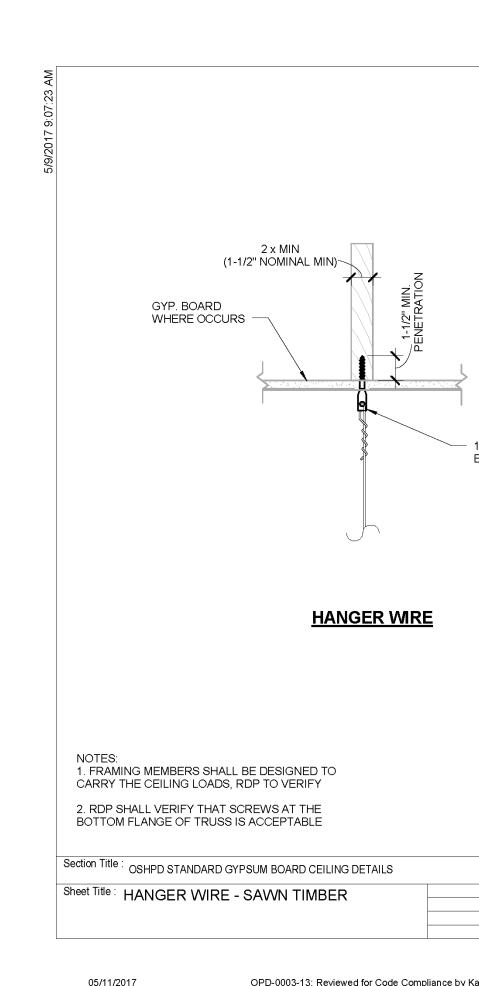
SUSPENDED
DRYWALL DETAILS

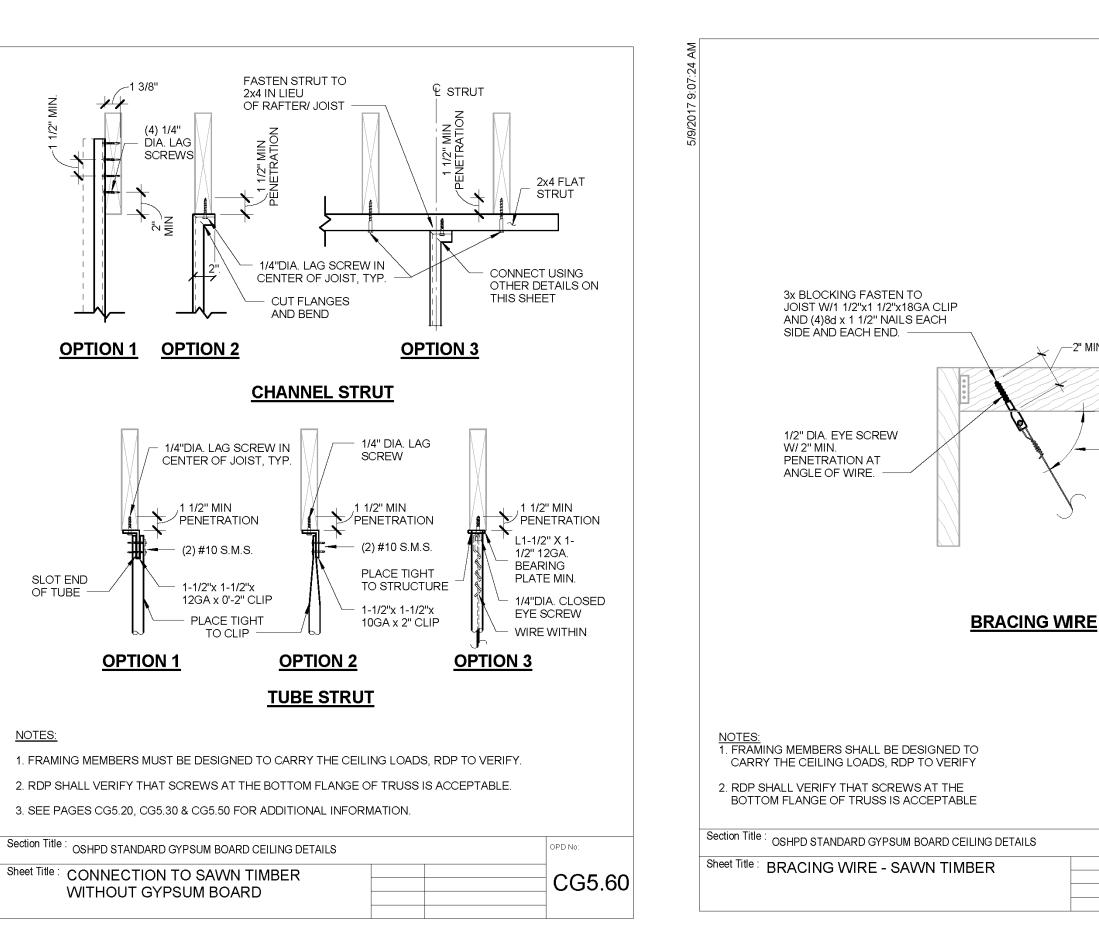
Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

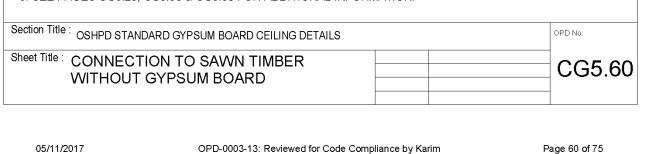


—2" MIN PENETRATION









OPD-0003-13: Reviewed for Code Compliance by Karim

Page 60 of 75

05/11/2017 OPD-0003-13: Reviewed for Code Compliance by Karim

05/11/2017

(2) 12 GA SLACK SAFETY HANGER WIRE

ÀT DIAGONALLY OPPOSITE CORNERS

ANCHORED TO STRUCTURE ABOVE

PER CG4.10 -

HANGER WIRE

SADDLE TIES ---

FURRING CHANNEL

ADDITIONAL FURRING CHANNEL

CLIP FLANGE & BEND

SUPPLEMENTAL

Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS

Sheet Title: RECESSED LIGHT FIXTURE

BACK TO FORM "L" CLIP

AT FIXTURE AS REQUIRED -

OPD-0003-13: Reviewed for Code Compliance by Karim

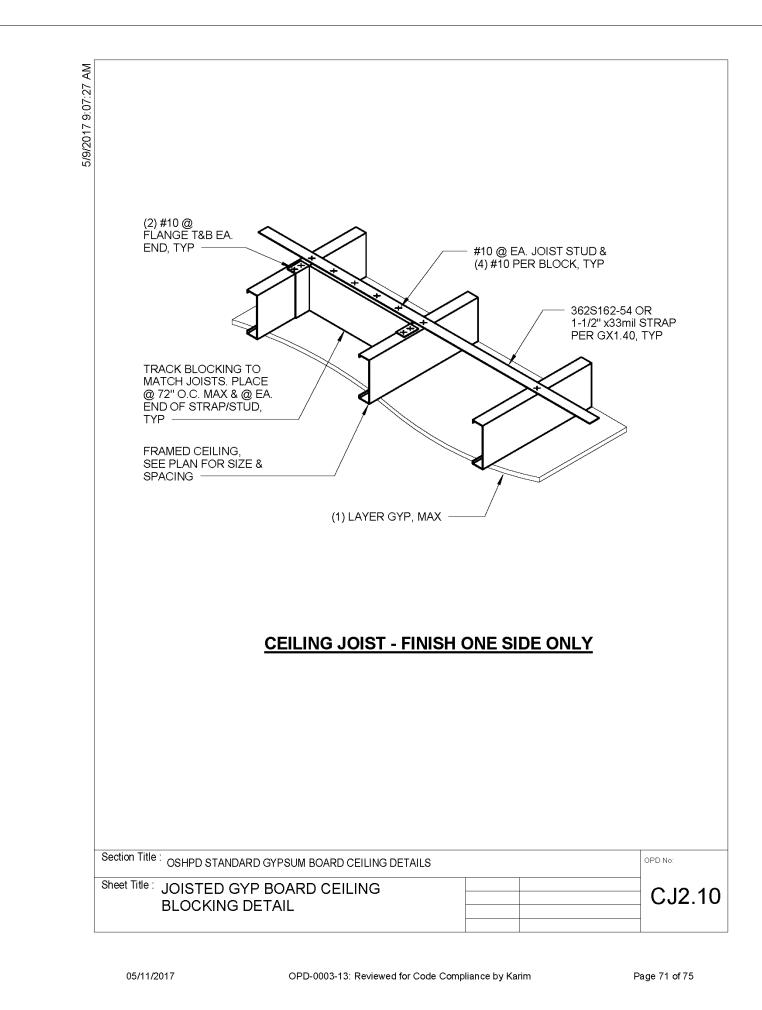
IF THE MAIN RUNNER IS CUT DUE TO FIXTURES, RDP SHALL SPECIFY ADDITIONAL HANGER

WIRES AND/OR BRACING WIRES, AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY.

Page 39 of 75

CG2.71

A-1.3



STUD WHERE TRACK IS FASTENED THRU GYP. (2) #10 SMS WHERE TRACK IS & BOT FLANGES, TYP -400T150-54 - JOIST STUD FASTENED DIRECTLY TO VERT. STUD, TYP ∕1/16" MAX - METAL STUD 18GA (43 MIL) MIN (RDP SHALL DESIGN THE WALL) JOIST STUD -(1) LAYER OF GYP. MAX — (2) LAYERS GYP. MAX -ASTM C1002 TYPE S SCREWS AT 12" OC └─ WALL TRACK SECTION AT TYP. STUD GYP BOARD ATTACHMENT - (3) #10 SMS TO EA STUD WHERE TRACK IS FASTENED THRU 18GA (43 MIL) MIN #10 SMS @ TOP & BOT FLANGES, TYP GYP. (2) #10 SMS WHERE TRACK IS
FASTENED DIRECTLY
TO VERT. STUD, TYP 400T150-54 — JOIST STUD -JAMB STUD 18GA (43 MIL) MIN -#10 SMS @ TOP & BOT FLANGES (1) PAYER OF GYP, MAX 400T150-54 -(2) LAYERS GYP. MAX. JOIST STUD -SECTION AT OPENING (2) ROWS OF (3) #10 SMS WHERE TRACK IS (1) LAYER OF GYP, MAX FASTENED THRU GYP. (1) ROW OF (2) #10 SMS WHERE TRACK IS (2) LAYERS GYP. MAX. -FASTENED DIRECTLY TO VERT. STUD, TYP Section Title: OSHPD STANDARD GYPSUM BOARD CEILING DETAILS Sheet Title: JOISTED GYP BOARD CEILING CJ2.30 CONNECTIONS

OPD-0003-13: Reviewed for Code Compliance by Karim

05/11/2017

PROJECT MANAGEMENT

ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

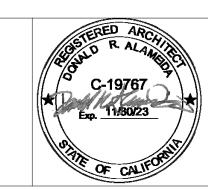
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Date

SUSPENDED DRYWALL CEILING WHERE PARTIALLY JOISTED

Project number 2108

Date 10/14/23

Drawn by Author

Checked by Checker

A-7.4

Scale

Page 73 of 75

		FI	NISH MATERIALS LEGEND		
CODE	SURFACE	PRODUCT	MANUFACTURER	STYLE	COLOR
F1	FLOOR	LUXURY SHEET VINYL	ARMSTRONG	NATURAL CREATIONS NA193	AVILA OAK, VIENNE SMOKE
F3	FLOOR	LUXURY SHEET VINYL	ARMSTRONG		
W1	WALL	FIELD PAINT PAINT	BENJAMIN MOORE	# 1590	
AW1	WALL	ACCENT WALL PAINT	BENJAMIN MOORE	# 1592	
B1	BASE	RUBBER BASE	BURKE	727	THUNDER
B2	BASE	COVED	SEE FLOOR TYPE		
T1	TRIM	TRIM PAINT	BENJAMIN MOORE	# 1590	
C1	CEILING	ACUSTICAL TILE	ARMSTRONG	MATCH EXISTING	
C2	CEILING	PAINTED DRYWALL	BENJAMIN MOORE	# 1590	
P LAM 1	CASEWORK	PLASTIC LAMINATE	FORMICA	9285-58	SENGE BLANC - MATTE
P LAM 2	CASEWORK	PLASTIC LAMINATE	FORMICA	6307-58	BURNT STRAND - MATTE
P LAM 3	CASEWORK	PLASTIC LAMINATE	FORMICA	912C-58	STORM MATTE/ COLOR CORE

					R	OOM FINISH	H SCHEDULE			
NUMBER	NAME	BASE	FLOOR CODE	EAST WALL	SOUTH WALL	WEST WALL	NORTH WALL	CEILING	CEILING HEIGHT	COMMENTS
101 102	LOBBY ECD OFFICE 1	B-1 B-1	F-1 F-2	G.B. / W1	G.B./AW1 G.B. / W1	GB. / P.T. GB. / W1	W1 G.B. / AW1	C1 C1	11'-11" 9'-0"	
103	WC 2	B-1	B-2	G.B. / PT	G.B. / PT	GB. / PT.	G.B./PT	C1	9'-0"	
104	WC 1	B-1	B-2	G.B. / W1	G.B. / W1	GB. / PT.	G.B./PT	C1	9'-0"	
105	INTERV. 2	B-1	F-1	G.B. / W1	G.B. / W1	GB. / PT.	G.B./PT	C1	11'-11"	
106	INTERV. 3	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
107	INTERV. 4	EXISTING	EXISTING	EXISTING		EXISTING	EXISTING	EXISTING	EXISTING	
108	INTERV. 5	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
109	DCSS CHILD DEV. CONFERENCE	B-1 B-1	F-1 F-1	G.B. / PT W1	G.B. / PT STR. FRONT	GB. / P.T. STR. FRONT	G.B./PT W1	G.B. / PT. C1	EXISTING EXISTING	
111	EC. DEV.	B-1	F-1	G.B. / PT	G.B. / PT	GB. / P.T.	G.B./PT	C1	EXISTING	BULLET RESIST. PARTITION
112 112	CD OFFICE 2 CHILD DEV OPEN	B-1 B-1	F-1 F-1	G.B. / PT G.B. / PT	G.B. / PT G.B. / PT	GB. / P.T. GB. / P.T.	G.B./PT G.B./PT	EXISTING EXISTING	EXISTING EXISTING	
112	OFFICE	D -1	1-1	G.D. / 1 1	G.D. / 1 1	Ob. / 1.11.	G.D./1 1	LZISTINO	L/M5111VO	
113	INTERV. 1	B-1	F-1	G.B. / PT	G.B. / PT	GB. / P.T.	G.B./PT	EXISTING	EXISTING	
120	FAMILY SUPPORT SURFACES	B-1	EXISTING	EXISTING		EXISTING		EXISTING	EXISTING	
121	(E) OFFICE	EXISTING			EXISTING	EXISTING			EXISTING	
122	(E) OFFICE	EXISTING			EXISTING	EXISTING	EXISTING		EXISTING	
123	(E) OFFICE	B-1		G.B. / W1		EXISTING GB. / W1	G.B. / W1	C1 C1	EXISTING	
124 125	CUST. OPEN OFFICE	EXISTING	F-1 EXISTING		G.B. / W1			EXISTING	11'-11" EXISTING	
125	STORAGE	PAMOTHAG	DAIDIING	LAISIINU	DAIDIING	TANDIHU	TANDIHU	TAISIIIU	DAMITIO	
129	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
130	OFFICE	EXISTING			EXISTING	EXISTING			EXISTING	
131	EMPLOYEE TRAINING	EXISTING				EXISTING		EXISTING	EXISTING	
132	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
133	STORAGE	B-1	F-1	W1	W1	W1	W1	C1	11'-11"	
134	OFFICE	EXISTING			EXISTING	EXISTING		EXISTING	EXISTING	
135	CHILE DEV. AREA		F-1	W1	G.B. / PT	GB. / P.T.		G.B. / PT.	EXISTING	
136	OFFICE	EXISTING			EXISTING			EXISTING	EXISTING	
137	OFFICE	EXISTING	EXISTING		EXISTING	EXISTING			EXISTING	
138 139	OFFICE OFFICE	EXISTING EXISTING	EXISTING EXISTING		EXISTING EXISTING	EXISTING EXISTING			EXISTING EXISTING	
140	RECEPT.	EXISTING	EXISTING		EXISTING	EXISTING			EXISTING	
141	OFFICE	EXISTING	EXISTING		EXISTING	EXISTING			EXISTING	
142	OFFICE	EXISTING	EXISTING		EXISTING	EXISTING			EXISTING	
144	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
145	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
146	OFFICE	EXISTING	EXISTING	EXISTING		EXISTING			EXISTING	
147	OFFICE	B-1	F-1	G.B. / W1	G.B. / W1	GB. / W1	G.B. / W1	C1	11'-11"	
148	STOR.	EXISTING	EXISTING	EXISTING		EXISTING		EXISTING	EXISTING	
149 155	NEW OFFICE	B-1 EXISTING	F-1 EXISTING	G.B. / PT	G.B. / PT EXISTING	GB. / PT. EXISTING	G.B./PT EXISTING	EXISTING EXISTING	EXISTING EXISTING	
156	EQUIPMENT SERVER ROOM	EXISTING	EXISTING			EXISTING		EXISTING	EXISTING	
157	TELEPHONE	EXISTING	EXISTING			EXISTING	EXISTING		EXISTING	
158	LOUNGE	EXISTING	EXISTING			EXISTING	EXISTING	EXISTING	EXISTING	
160	BREAK RM.	B-1	F-1	G.B. / W1	G.B. / W1	GB. / W1	G.B. / W1	C1	11'-11"	
161	CONFER. 1	B-1	F-1	G.B. / W1.	G.B. / W1	GB. / W1	G.B. / W1	G.B. / PT.	11'-11"	
162	CONF. STOR,	B-1	F-1	G.B. / W1	G.B. / W1	GB. / W1	G.B. / W1	C1	11'-11"	
163	CD OFFICE 6	B-1	F-1	G.B. / PT	G.B. / PT	GB. / P.T.	G.B./PT	G.B. / PT.	EXISTING	- . -
164	MENS	(E) TILE	(E) TILE	W1	EXISTING	W1	W1	W1	11'-11"	PATCH / REPLACEIN KIND
165	WOMENS CD OFFICE 5	(E) TILE	(E) TILE	W1	EXISTING G.P. / PT	W1 GB. / P.T.	W1	W1	11'-11"	PATCH / REPLACEIN KIND
167 168	CD OFFICE 5 CD OFFICE 4	B-1 B-1	F-1 F-1	G.B. / PT G.B. / W1	G.B. / PT G.B. / PT	GB. / P.T.	G.B./PT G.B./PT	G.B. / PT. G.B. / PT.	EXISTING EXISTING	
169	CD OFFICE 4 CD OFFICE 3	B-1 B-1	F-1 F-1	G.B. / W1	G.B. / PT	GB. / P.T.	G.B./PT	G.B. / PT.	EXISTING	
170	INFORMATION SERVICES	EXISTING	EXISTING			-	G.B. / AW1		EXISTING	
171	SYST. ANYLSIS	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
176	CD OFFICE 1	B-1	F-1	G.B. / PT	G.B. / PT	GB. / P.T.	G.B./PT	EXISTING	EXISTING	
180	CORRIDOR	EXISTING				EXISTING		EXISTING	EXISTING	(E) FIRE RATED CEILING 1-HOUR
181	CORRIDOR	EXISTING				EXISTING		EXISTING	EXISTING	(E) FIRE RATED CEILING 1-HOUR
187	(E) VEST.	EXISTING	EXISTING	G.B. / PT	EXISTING	G.B. / P.T.	EXISTING	EXISTING	EXISTING	
198	EC. DEV.TRAINING AND RECEP.	B-1	F-1	G.B. / PT	G.B. / PT	GB. / PT.	G.B./PT	C1	11'-11"	

ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

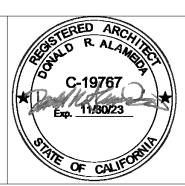
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT IMPROVENMENTS FOR ECONOMIC DEVELOPMENT AND CHILD SUPPORT SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Da

ROOM SCHEDULE

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

A-8

Scale 1/4" = 1'-0"

6/10/2025 9:54:12 AM



Stabilized construction exits.

Spill prevention and control.

Other soil loss BMPs acceptable to the enforcing agency.

d. Management of washout areas (concrete, paints, stucco, etc.).

Vehicle and equipment cleaning performed off site.

Control of vehicle/equipment fueling to contractor's staging area.

. Other housekeeping BMPs acceptable to the enforcing agency.

Material handling and waste management.

Building materials stockpile management.

2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges

and wastes that should be considered for implementation as appropriate for each project include, but

Wind erosion control

are not limited to, the following:

a. Dewatering activities.

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)



5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2,

necessary to establish and maintain tree health shall comply with Section 5.304.6.

to provide shade over 50 percent of the parking area within 15 years.

provide shade over 20 percent of the hardscape area within 15 years.

Appendix A5, are not included in the total area calculation.

provide shade of 20% of the landscape area within 15 years.

DIVISION 5.2 ENERGY EFFICIENCY

the amount of water that needs to be applied to the landscape.

volume or cycle duration can be fixed or adjustable.

not including exterior areas such as stairs, covered walkways, patios and decks.

SECTION 5.301 GENERAL

SECTION 5.302 DEFINITIONS

and in wastewater conveyance.

and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape impation

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed

Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade

structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to

5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors

standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference)

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to

reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that

has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy

bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or

washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape

design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed

landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and

operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom

PROJECT MANAGEMENT

PROJECT

ALAMEIDA

ARCHITECTURE

555 S. MAIN STREET, SUITE 2

SEBASTOPOL, CA 95472

(707) 824-1219

WWW.ALAMEIDA.COM

TENANT

IMPROVENMENTS

FOR ECONOMIC

DEVELOPMENT AND

CHILD SUPPORT

SERVICES

2420 6TH STREET

EUREKA, CA

CONSTRUCTION MANAGEMENT

CHAPTER 3 5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or **GREEN BUILDING** more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale. **SECTION 301 GENERAL Note**: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges the application checklists contained in this code. Voluntary green building measures are also included in the Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or application checklists and may be included in the design and construction of structures covered by this code, the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit). but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff 301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. the authority of California Building Standards Commission). Code sections relevant to additions and Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural alterations shall only apply to the portions of the building being added or altered within the scope of the practices and be approved by the enforcing agency. Refer to the current applicable permits on the State Water Resources Control Board website at: A code section will be designated by a banner to indicate where the code section only applies to newly www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no should be given during the initial design process for appropriate integration into site development. 301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only: 5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section Architect pursuant to Section 105, comply with Section 5.106.4.2 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seg. for definitions, **5.106.4.1 Bicycle parking. [BSC-CG]** Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the types of commercial real property affected, effective dates, circumstances necessitating applicable local ordinance, whichever is stricter. replacement of noncompliant plumbing fixtures, and duties and responsibilities for 5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' 301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being alterations whenever a permit is required for work. added, with a minimum of one two-bike capacity rack. **Exception:** Additions or alterations which add nine or less visitor vehicular parking spaces. 301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC) 5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking **SECTION 302 MIXED OCCUPANCY BUILDINGS** spaces with a minimum of one bicycle parking facility. 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building 5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, shall comply with the specific green building measures applicable to each specific occupancy. provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility. **SECTION 303 PHASED PROJECTS** 5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. 303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new 5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall construction (or newly constructed) shall apply. be convenient from the street and shall meet one of the following: 303.1.1 Initial Tenant Improvements. The provisions of this code shall apply only to the initial tenant . Covered, lockable enclosures with permanently anchored racks for bicycles; improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in 2. Lockable bicycle rooms with permanently anchored racks; or Section 301.3 non-residential additions and alterations. 3. Lockable, permanently anchored bicycle lockers. ABBREVIATION DEFINITIONS: Note: Additional information on recommended bicycle accommodations may be obtained from Department of Housing and Community Development Sacramento Area Bicycle Advocates. California Building Standards Commission Division of the State Architect, Structural Safety 5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections Office of Statewide Health Planning and Development 5.106.4.2.1 and 5.106.4.2.2 **5.106.4.2.1 Student bicycle parking.** Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building. Additions and Alterations 5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following: NONRESIDENTIAL MANDATORY MEASURES 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or DIVISION 5.1 PLANNING AND DESIGN 3. Lockable, permanently anchored bicycle lockers. **SECTION 5.101 GENERAL** 5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, 5.101.1 SCOPE fuel-efficient and carpool/van pool vehicles as follows: responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties. **TABLE 5.106.5.2 - PARKING SECTION 5.102 DEFINITIONS** NUMBER OF REQUIRED SPACES TOTAL NUMBER OF PARKING SPACES 5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference) 10-25 CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 25-50 3 80 degrees above nadir. This applies to all lateral angles around the luminaire. 51-75 6 LOW-EMITTING AND FUEL EFFICIENT VEHICLES. 76-100 8 Eligible vehicles are limited to the following: 101-150 11 Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer 151-200 16 only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962. 2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane AT LEAST 8% OF TOTAL 201 AND OVER stickers issued by the Department of Motor Vehicles. NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" 5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to characters such that the lower edge of the last word aligns with the end of the stall striping and is zero-emission vehicle standards visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be occupants, such as employees, as distinguished from customers and other transient visitors. considered eligible for designated parking spaces. VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, **5.106.5.3 Electric vehicle (EV) charging. [N]** Construction shall comply with Section 5.106.5.3.1 designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing. When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the Note: Source: Vehicle Code, Division 1, Section 668 California Electrical Code and as follows: ZEV. Any vehicle certified to zero-emission standards. 5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction SECTION 5.106 SITE DEVELOPMENT and shall be installed in accordance with the California Electrical Code. Construction plans and 5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE specifications shall include, but are not limited to, the following: OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction The type and location of the EVSE. ctivities through one or more of the following measures: 2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit. The raceway shall not be less than trade size 1". 5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control 4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed 5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by suitable cabinet, box, enclosure or equivalent. implementing an effective combination of erosion and sediment control and good housekeeping BMPs. 5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE. 1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following: **5.106.5.3.2 Multiple charging space requirements. [N]** When multiple charging spaces are a. Scheduling construction activity during dry weather, when possible. required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction Preservation of natural features, vegetation, soil, and buffers around surface waters. and shall be installed in accordance with the California Electrical Code. Construction plans and c. Drainage swales or lined ditches to control stormwater flow. specifications shall include, but are not limited to, the following: d. Mulching or hydroseeding to stabilize disturbed soils. Erosion control to protect slopes. The type and location of the EVSE. Protection of storm drain inlets (gravel bags or catch basin inserts). 2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and Perimeter sediment control (perimeter silt fence, fiber rolls). Sediment trap or sediment basin to retain sediment on site.

 Where there is insufficient electrical supply. 2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the

TABLE 5.106.5.3.3	
TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 AND OVER	6% of total ¹

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

5.106.8 LIGHT POLLUTION REDUCTION. [N].I Outdoor lighting systems shall be designed and installed to comply

- 1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
- - Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
 - Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8

- requirements for parking facilities and walkways. 2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table

Refer to the California Buildi	ing Code for requirements for additions	and alterations.

TABLE 5.106.8 [N] MA AND GLARE (BUG) RAT	XIMUM ALLO	OWABLE BA		(California Code of Regulations, Title 23, Divimaintenance practices. Local agencies are nas effective as the MWELO.		
ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4	POTABLE WATER. Water that is drinkable a Water Standards. See definition in the California
MAXIMUM ALLOWABLE BACKLIGHT RATING 3						POTABLE WATER. [HCD] Water that is sati Environmental Protection Agency (EPA) Drin Having Jurisdiction.
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit	RECYCLED WATER. Water which, as a rescontrolled use that would not otherwise occur

Luminaire back hemisphere is N/A B1 0.5-1 MH from property line Luminaire back hemisphere is less than 0.5 MH from property MAXIMUM ALLOWABLE

G1

For area lighting 4 N/A UO UO UO UO For all other outdoor N/A U1 U2 U3 lighting,including decorative

G1

G0

- shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
- 4. Electrical calculations shall substantiate the design of the electrical system, to include the

3. Plan design shall be based upon 40-ampere minimum branch circuits.

- rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
- 5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if

single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

TABLE 5.106.5.3.3	
TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	1
26-50	2
51-75	4
76-100	5
101-150	7
151-200	10
201 AND OVER	6% of total ¹

- 2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8); 3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in
- 4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance
- lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

Luminaire back hemisphere is

1-2 MH from property line

UPLIGHT RATING (U)

MAXIMUM ALLOWABLE

Luminaire greater than 2 MH

Luminaire front hemisphere is

Luminaire front hemisphere is

Luminaire back hemisphere is

less than 0.5 MH from property

1-2 MH from property line

0.5-1 MH from property line

"all other outdoor lighting".

include, but are not limited to, the following:

4. Water retention gardens.

French drains.

2. Water collection and disposal systems.

N/A

California Energy Code and Chapter 10 of the Callifornia Administrative Code.

transit corridor for the purpose of determining compliance with this section.

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property

corridors, the property line may be considered to be the centerline of the public roadway or public

line may be considered to be 5 feet beyond the actual property line for purpose of determining

compliance with this section. For property lines that abut public roadways and public transit

3. If the nearest property line is less than or equal to two mounting heights from the back

5. If the nearest property line is less than or equal to two mounting heights from the front

hemisphere of the luminaire distribution, the applicable reduced Glare rating shall be met.

Exception: Additions and alterations not altering the drainage path.

hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met.

4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet

these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will

5. Other water measures which keep surface water away from buildings and aid in groundwater

manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water

G0

G0

GLARE RATING 5 (G)

from property line

luminaires

- 1. Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.
- Alternate materials, designs and methods of construction.

- 1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting
- A-1, California Energy Code Tables 130.2-A and 130.2-B.

6.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT (BUG) RATINGS 1,2							MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.
BLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4		POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.
WABLE TING 3							POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic puroses, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

esult of treatment of waste, is suitable for a direct beneficial use or a cur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. A meter installed subordinate to a site meter. Usually used to measure water intended for one purpose, such as landscape irrigation. For the purposes of CALGreen, a dedicated meter may be considered a submeter.

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape

SECTION 5.303 INDOOR WATER USE 5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

- 1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
- 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
- Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following: 5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per

flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG] 5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA

WaterSense Specification for Showerheads. **5.303.3.3.2 Multiple showerheads serving one shower.** When a shower is served by more than one

showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead.

CAL GREEN

Description

2108
2100
10/14/23
Author
Checker



2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

5.303.3.4 Faucets and fountains 5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi. 5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons 5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi]. 5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle. 5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi]. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction. 5.303.4 COMMERCIAL KITCHEN EQUIPMENT. 5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water. Note: This code section does not affect local jurisdiction authority to prohibit or require disposer 5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building. 5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code. **SECTION 5.304 OUTDOOR WATER USE** 5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent. 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23. Chapter 2.7. Division 2. 2. MWELO and supporting documents, including a water budget calculator, are available at: 5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO. 5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet. 5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE **FFFICIENCY SECTION 5.401 GENERAL** 5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting. **SECTION 5.402 DEFINITIONS 5.402.1 DEFINITIONS.** The following terms are defined in Chapter 2 (and are included here for reference) ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements. ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste. **TEST.** A procedure to determine quantitative performance of a system or equipment

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement) **SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT** 5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent. 5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following methods. 5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures. 5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows: 5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water Commissioning requirements shall include: intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: An installed awning at least 4 feet in depth. The door is protected by a roof overhang at least 4 feet in depth. 3. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection. 5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane. **SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING** 5.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent 5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that: Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated 5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. Exceptions to Sections 5.408.1.1 and 5.408.1.2: Excavated soil and land-clearing debris. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities 5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency. 5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency. 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to assist in documenting compliance with the waste management plan. 2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle). 5.408.2 UNIVERSAL WASTE. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents. Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A REGS UWR FinalText.pdf 5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. **Exception:** Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation. 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural

Commissioner and follow its direction for recycling or disposal of the material.

2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS 5.410.1 RECYCLING BY OCCUPANTS. Provide readily accessible areas that serve the entire building and are

identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive. Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources

Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section. 5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

1. Owner's or Owner representative's project requirements.

Basis of design.

3. Commissioning measures shown in the construction documents.

4. Commissioning plan. Functional performance testing.

6. Documentation and training. 7. Commissioning report.

1. Unconditioned warehouses of any size.

2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within

3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.

2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following: Environmental and sustainability goals.

Building sustainable goals.

Indoor environmental quality requirements. 4. Project program, including facility functions and hours of operation, and need for after hours

6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

Renewable energy systems.

2. Landscape irrigation systems. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:

General project information. Commissioning goals. Systems to be commissioned. Plans to test systems and components shall include:

a. An explanation of the original design intent.

. Equipment and systems to be tested, including the extent of tests Functions to be tested.

Conditions under which the test shall be performed.

 Measurable criteria for acceptable performance. Commissioning team information.

5. Commissioning process activities, schedules and responsibilities. Plans for the completion of

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:

1. Site information, including facility description, history and current requirements. 2. Site contact information.

3. Basic operations and maintenance, including general site operating procedures, basic

troubleshooting, recommended maintenance requirements, site events log.

4. Major systems.

5. Site equipment inventory and maintenance notes. 6. A copy of verifications required by the enforcing agency or this code.

7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:

1. System/equipment overview (what it is, what it does and with what other systems and/or

equipment it interfaces).

2. Review and demonstration of servicing/preventive maintenance.

3. Review of the information in the Systems Manual.

4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or

5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet. Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

Renewable energy systems.

2. Landscape irrigation systems. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL 5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that

SECTION 5.502 DEFINITIONS 5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for reference)

are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of Regulations (CCR). Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propoelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse

gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the referenc GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the

Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction,

with a radius 1.5 times the pipe diameter. LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82,

sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O³/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diamete

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question. **SECTION 5.503 FIREPLACES**

5.503.1 FIREPLACES. Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified

SECTION 5.504 POLLUTANT CONTROL

5.504.1 TEMPORARY VENTILATION. The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which

PROJECT MANAGEMENT

ALAMEIDA **ARCHITECTURE**

CONSTRUCTION MANAGEMENT

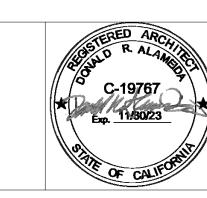
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT IMPROVENMENTS FOR ECONOMIC DEVELOPMENT AND **CHILD SUPPORT SERVICES**

> **2420 6TH STREET** EUREKA, CA



. '	<u> </u>	1

Description

CALGREEN

Project number 10/14/23 Author Drawn by Checker Checked by



2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2020, Includes August 2019 Supplement)

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards: Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where

applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such

products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds

aerosol products as specified in subsection 2. below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing

(chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for

Less Water and Less Exempt Compounds in Grams	per Liter
ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER. THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR **QUALITY MANAGEMENT DISTRICT RULE 1168,** www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC L	IMIT
Less Water and Less Exempt Compounds in Gra	ams per Liter
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS					
COATING CATEGORY	CURRENT VOC LIMIT				
FLAT COATINGS	50				
NONFLAT COATINGS	100				
NONFLAT HIGH GLOSS COATINGS	150				
SPECIALTY COATINGS					
ALUMINUM ROOF COATINGS	400				
BASEMENT SPECIALTY COATINGS	400				
BITUMINOUS ROOF COATINGS	50				
BITUMINOUS ROOF PRIMERS	350				
BOND BREAKERS	350				
CONCRETE CURING COMPOUNDS	350				
CONCRETE/MASONRY SEALERS	100				
DRIVEWAY SEALERS	50				
DRY FOG COATINGS	150				
FAUX FINISHING COATINGS	350				
FIRE RESISTIVE COATINGS	350				
FLOOR COATINGS	100				
FORM-RELEASE COMPOUNDS	250				
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500				
HIGH-TEMPERATURE COATINGS	420				
NDUSTRIAL MAINTENANCE COATINGS	250				
LOW SOLIDS COATINGS1	120				
MAGNESITE CEMENT COATINGS	450				
MASTIC TEXTURE COATINGS	100				
METALLIC PIGMENTED COATINGS	500				
MULTICOLOR COATINGS	250				
PRETREATMENT WASH PRIMERS	420				
PRIMERS, SEALERS, & UNDERCOATERS	100				
REACTIVE PENETRATING SEALERS	350				
RECYCLED COATINGS	250				
ROOF COATINGS	50				
RUST PREVENTATIVE COATINGS	250				
SHELLACS:	250				
CLEAR	730				
OPAQUE	550				
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100				
STAINS	250				
STONE CONSOLIDANTS	450				
SWIMMING POOL COATINGS	340				
TRAFFIC MARKING COATINGS	100				
TUB & TILE REFINISH COATINGS	420				
WATERPROOFING MEMBRANES	250				
WOOD COATINGS	275				
WOOD PRESERVATIVES	350				
ZINC-RICH PRIMERS	340				

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD. ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008, MORE INFORMATION IS AVAILABLE

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: . Manufacturer's product specification

5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet at least one of the testing and product requirements:

2. Field verification of on-site product containers

. Carpet and Rug Institute's Green Label Plus Program. 2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February

2010 (also known as CDPH Standard Method V1.1 or Specification 01350). 3. NSF/ANSI 140 at the Gold level or higher; 4. Scientific Certifications Systems Sustainable Choice; or

5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria listed in the CHPS High Performance Product Database.

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in

> 5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

Product certifications and specifications.

Chain of custody certifications.

3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).

4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S

5. Other methods acceptable to the enforcing agency

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION **CURRENT LIMIT** HARDWOOD PLYWOOD VENEER CORE 0.05 HARDWOOD PLYWOOD COMPOSITE CORE PARTICLE BOARD 0.09 MEDIUM DENSITY FIBERBOARD 0.11 THIN MEDIUM DENSITY FIBERBOARD2 0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

5.504.4.6 Resilient flooring systems. For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following:

I. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; 2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers,

Version 1.1, February 2010; 3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or 4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

materials meet the pollutant emission limits.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. For buildings or additions equipped with demand control ventilation. CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

SECTION 5.507 ENVIRONMENTAL COMFORT

5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmissio Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

1. Lon or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.

2. Lon or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or Lin noise contour of a freeway or expressway, railroad, industrial source or

fixed-guideway source as determined by the Noise Element of the General Plan. 5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration

exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of

at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30). 5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does

not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior

sound levels shall be prepared by personnel approved by the architect or engineer of record. 5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant

spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY **5.508.1 Ozone depletion and greenhouse gas reductions.** Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO₂), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack. 5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of

5.508.2.2 Valves. Valves Valves and fittings shall comply with the California Mechanical Code and as

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are

designed to have seal caps.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place. 5.508.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves

Exception: Valves with seal caps that are not removed from the valve during stem

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems.

Examples of acceptable HVAC training and certification programs include but are not limited to the following:

State certified apprenticeship programs. Public utility training programs. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building

performance contractors, and home energy auditors. Successful completion of a third party apprentice training program in the appropriate trade.

4. Other programs acceptable to the enforcing agency.

Programs sponsored by manufacturing organizations. 5. Other programs acceptable to the enforcing agency.

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS)

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate

ALAMEIDA **ARCHITECTURE**

PROJECT MANAGEMENT

CONSTRUCTION MANAGEMENT

555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472

(707) 824-1219

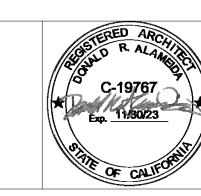
WWW.ALAMEIDA.COM



PROJECT

TENANT IMPROVENMENTS FOR ECONOMIC DEVELOPMENT AND CHILD SUPPORT **SERVICES**

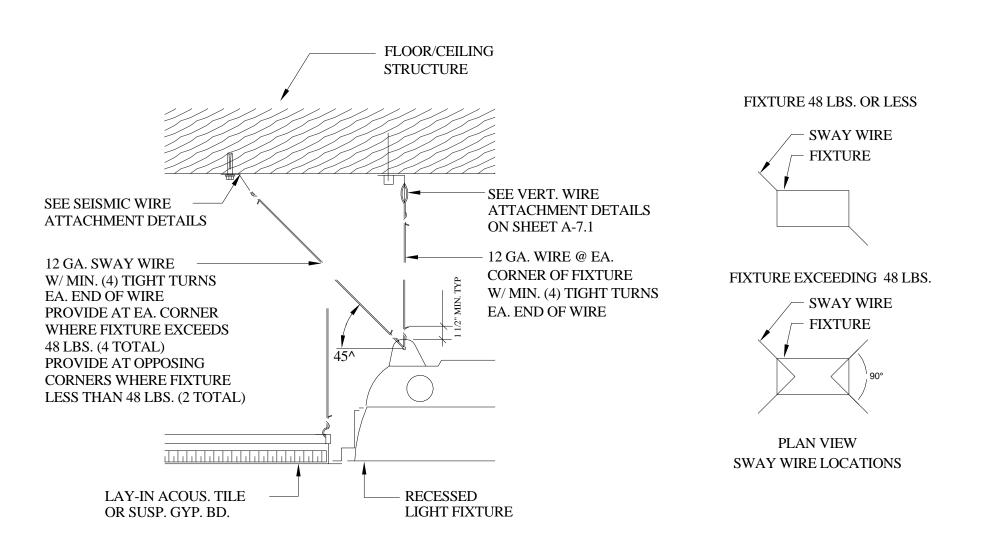
> **2420 6TH STREET** EUREKA, CA

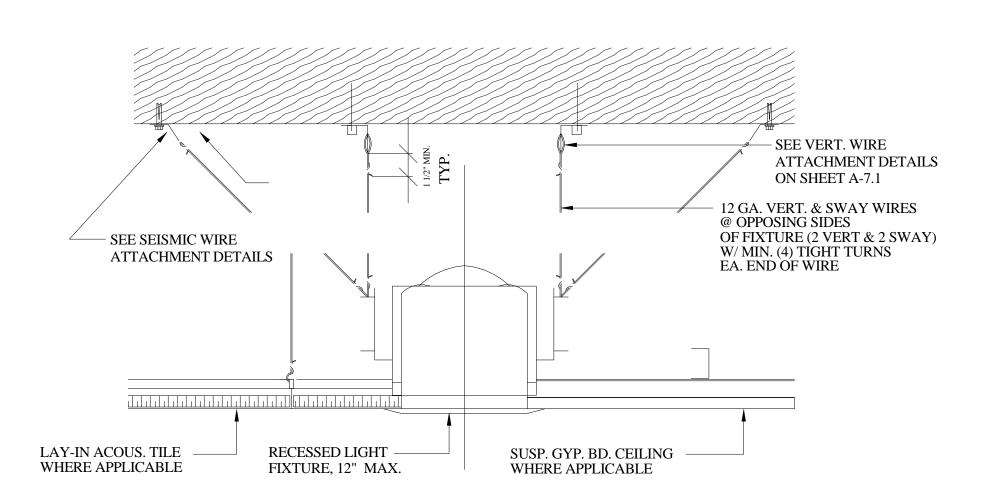


No.	Description	Date

CALGREN

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker





PHASE C

TOTAL CONNECTED LOAD 16.74 KVA

46.5 MAX AMPS/PHASE

3	FIXTURE @ SUSPENDED CEIL'G
E-0	N.T.S.

RECEPTICLES (FIRST 10 KVA)

V EV / CONTINUOUS

							PANEL N	O: '	"U"						
VOLT	120 / 208 V														
PHASE	3			į.	REMAF	RKS:						F	EEDER	SEE SI	NGLE LINE
WIRE	4 W				EXISTI	NG PAI	VEL U					CC	NDUIT	SEE SI	NGLE LINE
BUSSING	100 AMP				PRIOR	TO MO	DIFICATI	ON	IS			MO	UNTED	SURFA	CE
POLES	42 P											AIC F	RATING	10,000)
LOAD DE	ESCRIPTION	TYPE	A	В	С	BRKR	CKT.		CKT.	BRKR	Α	В	С	TYPE	LOAD DESCRIPTIO
RECPT	ΓRM. 130	R	0.2			20/1	1	П	2	20/1	0.4			R	RECEPT / LTG RM. 13
RECPT RM	И. 130 / ROOF	R		0.5		20/1	3	Ш	4	20/1		0.5		R	RECEPT / LTG RM. 13
RECPI	ΓRM. 130	R	_		0.7	20/1	5	Ш	6	20/1] .		0.0	R	RECEPT / LTG RM. 13
RECPI	ΓRM. 112	R	0.7	_		20/1	7	Ш	8	20/1	0.5	_		R	RECEPT / LTG RM. 11
RECPT	ΓRM. 112	R		0.7		20/1	9	Ш	10	20/1		0.5		R	RECEPT / LTG RM. 11
RECPI	ΓRM. 112	R	-		0.9	20/1	11	Ш	12	20/1]		0.7	R	RECEPT / LTG RM. 11
RECPT RM	И. 112 / ROOF	R	0.7			20/1	13	Ш	14	20/1	0.4	4		R	RECEPT / LTG RM. 11
RECPT R	RM. 101/110	R		0.5		20/1	15	Ш	16	20/1		0.5		R	RECEPT / LTG RM. 11
RECPT R	RM. 111/111	R	=		0.7	20/1	17	Ш	18	20/1	1 .		0.5	R	RECEPT / LTG RM. 110/1
RECPT R	RM. 108/111	R	0.7	-		20/1	19	Ш	20	20/1	0.0			R	RECPT RM. 120
RECEPT. 10	05/106/107/120	R		1.1		20/1	21	Ш	22	20/1		0.2		R	RECEPT / LTG RM. 108/1
RECPT RM	И. 120 / ROOF	R	-		0.0	20/1	23	Ш	24	20/1	1 .		0.5	R	RECEPT / LTG RM. 12
RECPT R	RM. 101/120	R	0.0	у.		20/1	25	Ш	26	20/1	0.9			R	RECEPT / LTG RM. 12
RECPT R	RM. 101/120	R		0.9		20/1	27	Ш	28	20/1		0.000		R	RECEPT / LTG RM. 12
RECPT R	RM. 101/120	R	-		0.7	20/1	29	Ш	30	20/1	1 '		0.0	R	RECEPT / LTG RM. 12
RECPT	ΓRM. 120	R	0.0	-		20/1	31	Ш	32	20/1	0.4	_		R	RECEPT / LTG RM. 13
RECPT	ΓRM. 120	R		0.00		20/1	33	Ш	34	20/1		0.0		R	RECEPT / LTG RM. 12
RECPT	ΓRM. 130	R	-		0.7	20/1	35	Ш	36	20/1	1 .		0	R	RECEPT / LTG RM. 12
RECPT	ΓRM. 130	R	0.7			20/1	37	Ш	38	20/1		\ <u>-</u>		R	RECEPT / LTG RM. 13
RECEPT /	LTG RM. 112	L				20/1	39	Ш	40	20/1					MASTER WORKSTATION
WATER	R HEATER	Н	•			20/1	41	Ш	42	-	1 .				SPACE
			3.06	3.78	3.78						2.52	1.8	1.8		
NEL CANED I O	AD GID B (AD)	. 7				100 A 100 A									
DEMAND LC	AD SUMMAR	Y				CONN.	DEMAND		DEMAND						
	Danie Newsonson		\$00.0000000000000000000000000000000000			KVA	FACTOR		KVA			DILLOT	OA -	E E0	T/3.7.4
TYPE	M NON-CON	NTINUIOUS	/ MISC.			0	1.25		0.00			PHASE . PHASE :	700F(A)	U.A. 22 1. A. 2. C.	_KVA _KVA

							PANEL N	D: "	'U"						
VOLT	120 / 208	V													
PHASE	3			I	REMAI	RKS:]	FEEDER	SEE SI	NGLE LINE
WIRE	4 W			I	RELOC	ATED A	ND REVIS	ED	PANEL U	J	- P	C	ONDUIT	SEE SI	NGLE LINE
BUSSING	100 AMF)										MC	UNTED	SURFA	CE
POLES	42 P		- N									AIC I	RATING	10,000	(
LOAD DE	ESCRIPTION	TYPE	А	В	С	BRKR	CKT.		CKT.	BRKI	R A	В	С	TYPE	LOAD DESCRIPTION
UN	USED	R	0.0			20/1	1	П	2	20/1	0.0			R	UNUSED
UN	USED	R		0.0		20/1	3	Ш		20/1	8	0.5		R	RECEPT / LTG RM. 130
RECP	ΓRM. 130	R	S		0.9	20/1	5	Ш	(5 20/1		NC NC	0.0	R	RECEPT / LTG RM. 130
RECP	ΓRM. 112	R	0.2	_		20/1	7	Ш	8	3 20/1	0.2			R	RECEPT / LTG RM. 112
RECP	ΓRM. 112	R		0.7		20/1	9	Ш	10	20/1		0.7		R	RECEPT / LTG RM. 112
RECP	ΓRM. 112	R	18.		0.5	20/1	11	Ш	12	20/1		20	0.7	R	RECEPT / LTG RM. 112
RECPT RM	M. 112 / ROOF	R	0.5			20/1	13	Ш	14	20/1	0.4	Π .		R	RECEPT / LTG RM. 112
RECPT I	RM. 101/110	R		0.2		20/1	15	Ш	16	5 20/1		0.0		R	RECEPT / LTG RM. 111
RECPT I	RM. 111/111	R			0.2	20/1	17	Ш	18	20/1			0.5	R	RECEPT / LTG RM. 110/112
RECPT I	RM. 108/111	R	0.2	_		20/1	19	Ш	20	20/1	0.0	i .		R	RECPT RM. 120
RECEPT. 1	05/106/107/120	R		1.6		20/1	21	Ш	22	20/1		0.0		R	RECEPT / LTG RM. 108/111
RECPT RM	M. 120 / ROOF	R	-		0.0	20/1	23	Ш	24	20/1			0.5	R	RECEPT / LTG RM. 120
RECPT I	RM. 101/120	R	0.7	_		20/1	25	Ш	26	5 20/1	1.3	i '		R	RECEPT / LTG RM. 120
RECPT I	RM. 101/120	R		1.4		20/1	27	Ш	28	20/1	5	0.000		R	RECEPT / LTG RM. 120
RECPT I	RM. 101/120	R	\$(-		0.9	20/1	29	Ш	30	20/1			0.0	R	RECEPT / LTG RM. 120
RECP'	ΓRM. 120	R	0.0	_		20/1	31	Ш	32	20/1	1.1	1		R	RECEPT / LTG RM. 130
RECP'	ΓRM. 120	R		0.00		20/1	33	Ш	34	20/1		0.0		R	RECEPT / LTG RM. 120
RECP	ΓRM. 130	R	51 -		1.1	20/1	35	Ш	36	5 20/1		10	0	R	RECEPT / LTG RM. 120
RECP	ΓRM. 130	R	0.7			20/1	37	Ш	38	20/1		1 '		R	RECEPT / LTG RM. 130
RECEPT /	LTG RM. 112	L				20/1	39	Ш	40	20/1					MASTER WORKSTATIONS
WATE	R HEATER	Н				20/1	41	Ш	42	-		t.			SPACE
S-11-11-11-11-11-11-11-11-11-11-11-11-11		•	2.34	3.96	3.6						2.88	1.26	1.8		
		•		•										•	
DEMAND LO)AD SUMMA	ARY				CONN.	DEMAND		DEMAND						
						KVA	FACTOR		KVA	10					
TYPE	M NON-	CONTINUIOUS	MISC.			0	1		0.00			PHASE	A	5.22	KVA
TYPE	L LIGH	TING / CONTINU	IOUS			0	1.25		0.00			PHASE	В	5.22	KVA
TYPE	R RECE	PTICLES (FIRST	10 KVA)			10	1		10.00	1		PHASE	C	5.4	KVA
TYPE	R RECE	PTICLES (OVER	10 KVA)			5.84	0.5		2.92		TOTAL CO	NNECTE	D LOAD	15.84	KVA
TYPE	H HVA	C / MECH LOADS	3			0	1		0.00						•
TYPE	V EV/	CONTINUOUS				0	1.25		0.00						
			8	TOTALS	S	15.84	1		12.92	1				45	MAX AMPS/PHASE

SIGNAL SYSTEM CABLE SCHEDULE

USE

FIRE ALARM - SIGNAL DEVICES

FIRE ALARM - LOOP TWISTED

FIRE ALARM - LOOP TWISTED

UNSHEILDED UNDERGROUND

FIRE ALARM SPEAKER - TWISTED

FIRE ALARM SPEAKER - TWISTED PAIR

UNSHEILDED

SHEILDED PAIR

UNDERGROUND

CLOCK BELOW GRADE

CLOCK ABOVE GRADE

SPEAKER BELOW GRADE

SPEAKER ABOVE GRADE

DATA BELOW GRADE

DATA ABOVE GRADE

TELEPHONE ABOVE GRADE

TELEPHONE BELOW GRADE

DATA

DESCRIPTION

TAG

G

2 #12 THWN

3#12 THWN

WESTPENN 238

WESTPENN 291

NOT USED

WESTPENN AQC291

4 PAIR CAT 6 (SEE SPEC'S)

12 STRAND MM FIBER (SEE SPEC'S)

WESTPENN D990 (2 - # 16)

WESTPENN D995 (2-# 14)

WESTPENN AQC225 (2 - #16)

FALCON 410214H20 (2 - #14)

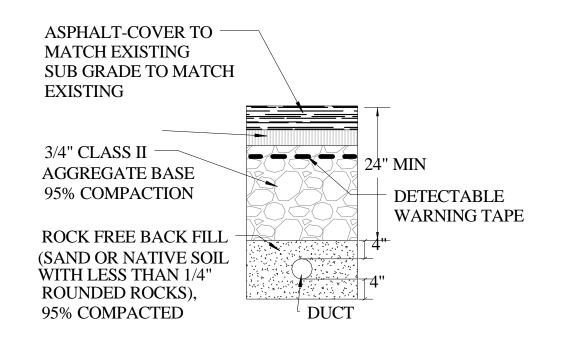
POWER AND LIGHTING DISTRIBUTION NOTE: AT THE TIME PLANS PREPARED INFORMATION KNOWN OF EXISTING POWER AND LIGHTING DISTRIBUTION WAS LIMITED AND MAY BE OUTDATE BY SUBSEQUENT MODIFICATIONS SINCE 1999. ELECTRICAL CONTRACTOR TO VERIFY LOADS ON ALL ELECTRICAL PANELS NECESSARY TO MODIFY FOR POWER AND LIGHTING MODIFICATION REQUIRED TO COMPLETE THIS CSCOPE OF WORK. CONTRACTOR TO SUBMIT AS BUILT PANEL SCHEDULES AND PROPOSED MODIFICATION TO PANELS. PANEL U ILLUSTRATED ATTEMPTS TO DEMONSTRATE CHANGES TO RECEPTACLE LOADS RATED ABOVE IS NOT THE ONL

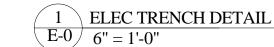
ELECTRICAL GENERAL NOTES

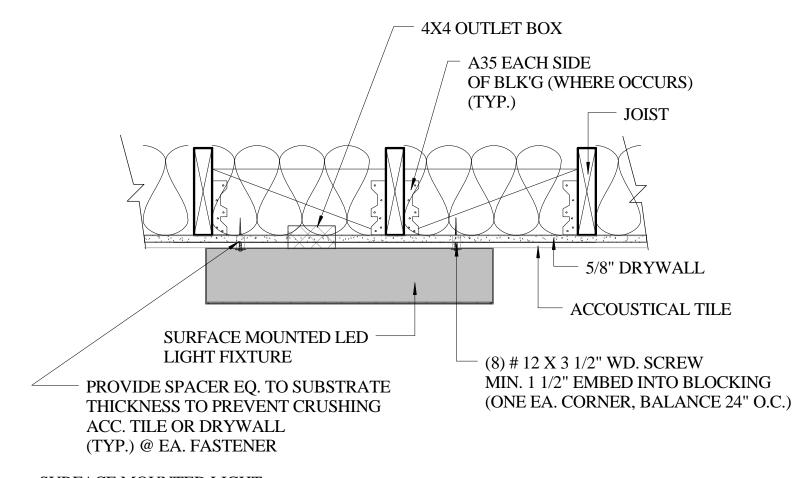
- SEE ARCHITECTURAL DRAWINGS FOR COUNTER HEIGHTS. INSTALL ALL RECEPTACLES, DEVICES, ETC. ACCORDINGLY.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- FINISH OF ALL LIGHTING FIXTURES SHALL BE AS SELECTED BY THE ARCHITECT FROM STANDARD FINISHES.
- SEE MECHANICAL DRAWINGS FOR EXACT LOCATION OF EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
- SEE MECHANICAL CONTROL DIAGRAM FOR CONTROL WIRING BY ELECTRICAL CONTRACTOR.
- FIRE STOPPING SHALL BE PROVIDED WHERE PENETRATING ITEMS PASS ENTIRELY THROUGH BOTH PROTECTIVE MEMBRANES OF BEARING WALLS REQUIRED TO HAVE A FIRE-RESISTIVE RATING AND WALLS REQUIRING PROTECTED OPENINGS. FIRE STOPPING SHALL ALSO BE PROVIDED AT PENETRATIONS OF FIRE RESISTIVE FLOORS AND FLOORS WHICH ARE PART OF A CEILING-FLOOR ASSEMBLY. FIRE-STOPPING SHALL HAVE AN "F" OR "T" RATING AS DETERMINED BY TESTS CONDUCTED IN ACCORDANCE WITH UBC SECTION 714 SEE SPECIFICATIONS.
- PROVIDE EMERGENCY BATTERY PACK FOR ALL FIXTURES. WHERE SHOWN ON PLAN / SCHEDUL CONNECT BATTERY PACKS AHEAD OF SWITCH.

NOTE:

INSTALLATION OF ALL ELECTRICAL SWITCHES MUST COMPLY WITH CBC SECTION 11B-308.1.1 AND ELECTRICAL RECEPTACLES MUST COMPLY WITH CBC SECTION 11B-308.1.2







SURFACE MOUNTED LIGHT 2 FIXTURE E-0 1 1/2" = 1'-0"

PROJECT MANAGEMENT

ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

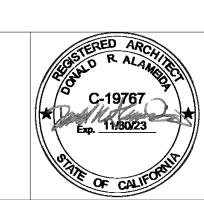
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT IMPROVENMENTS FOR ECONOMIC DEVELOPMENT AND CHILD SUPPORT **SERVICES**

> **2420 6TH STREET** EUREKA, CA



No.	Description	Date

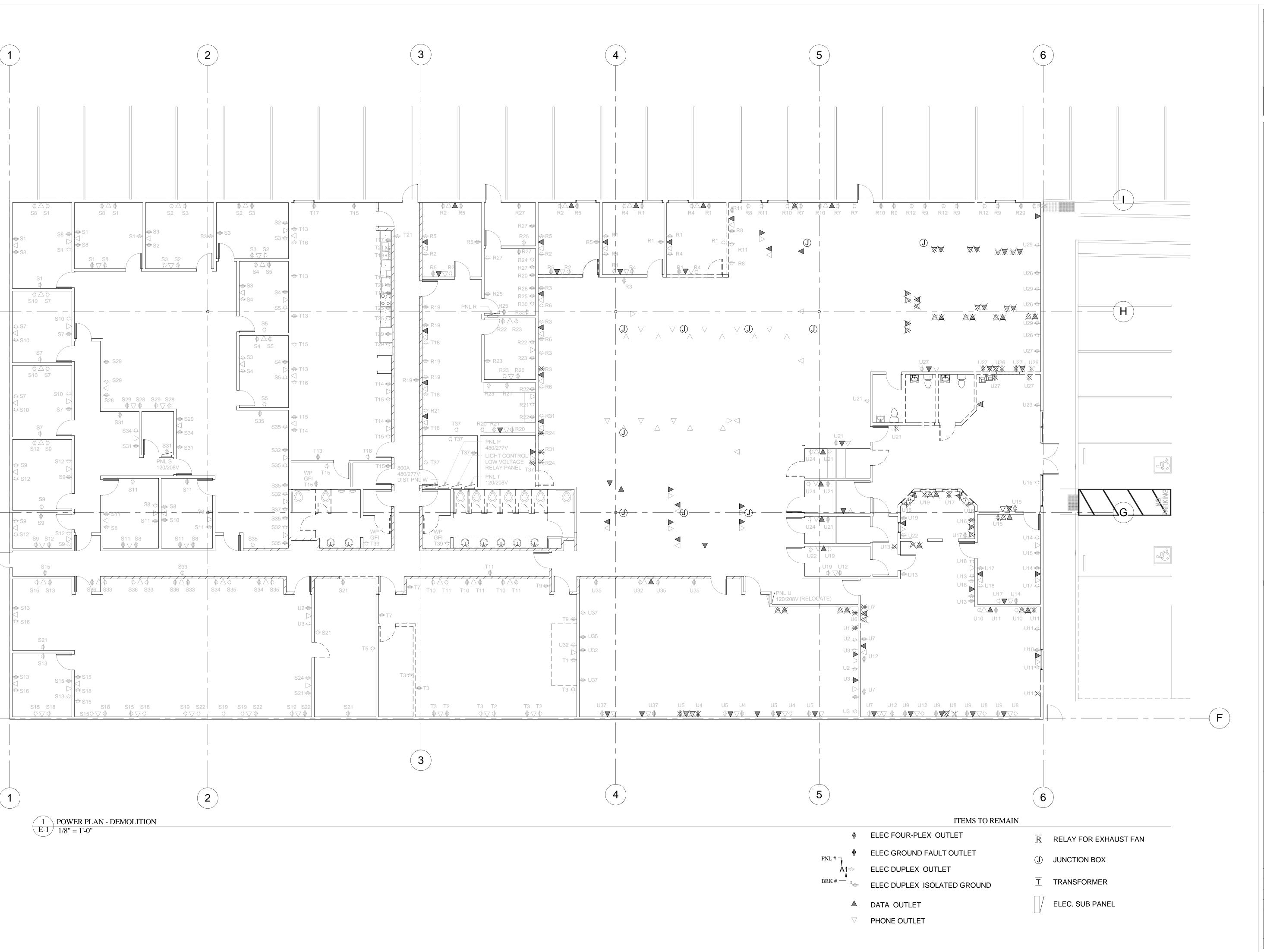
ELECTRICAL SCHEDULES AND **NOTES**

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

E-0

Scale

As indicated



ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

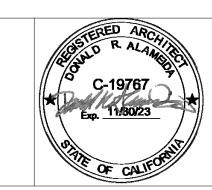
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA

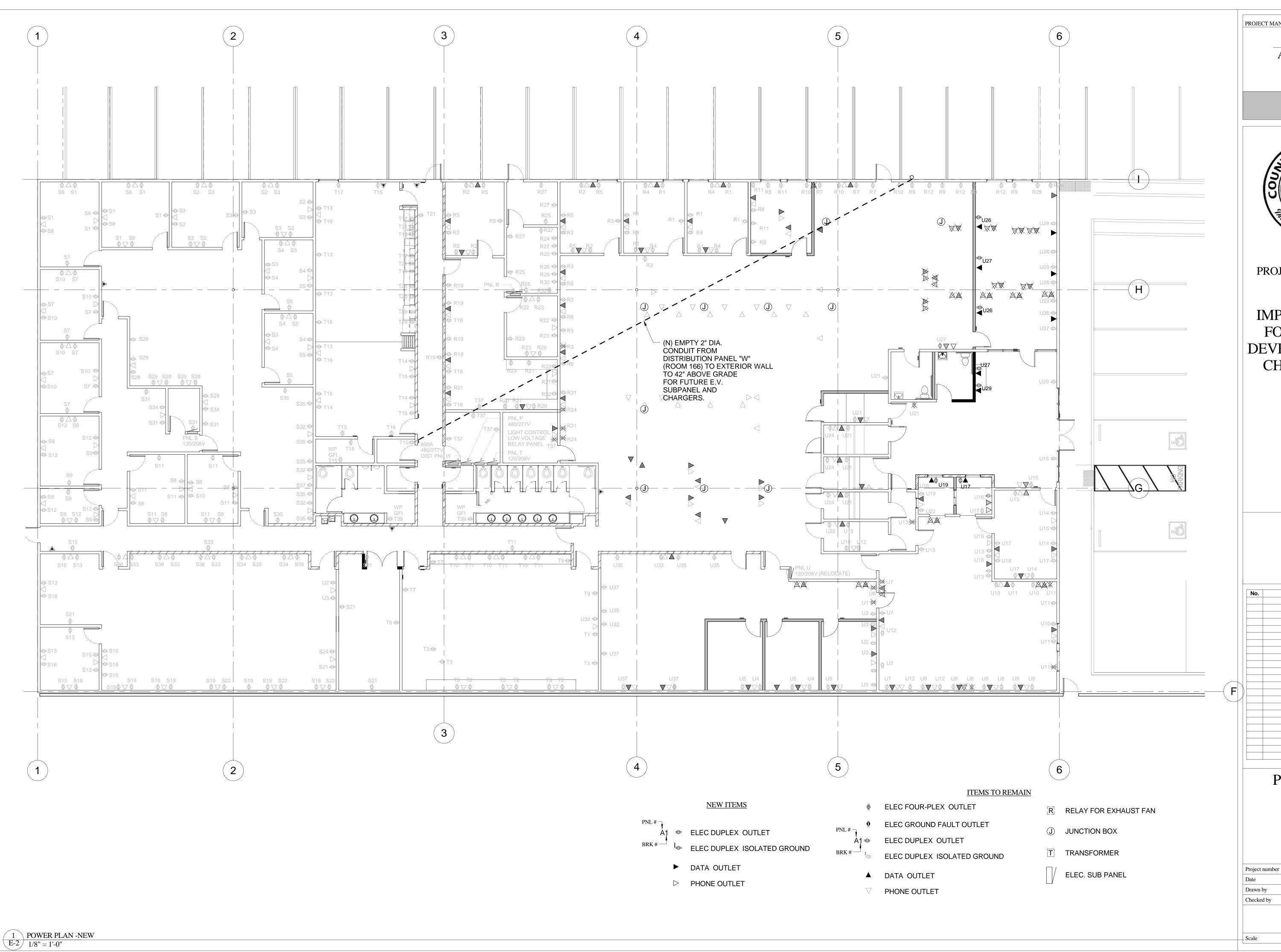


No.	Description	Date
	•	

ELECTRICAL POWER DEMOLITION

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

E-1



ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

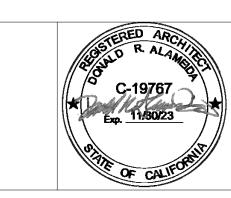
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT IMPROVENMENTS FOR ECONOMIC DEVELOPMENT AND CHILD SUPPORT **SERVICES**

2420 6TH STREET EUREKA, CA

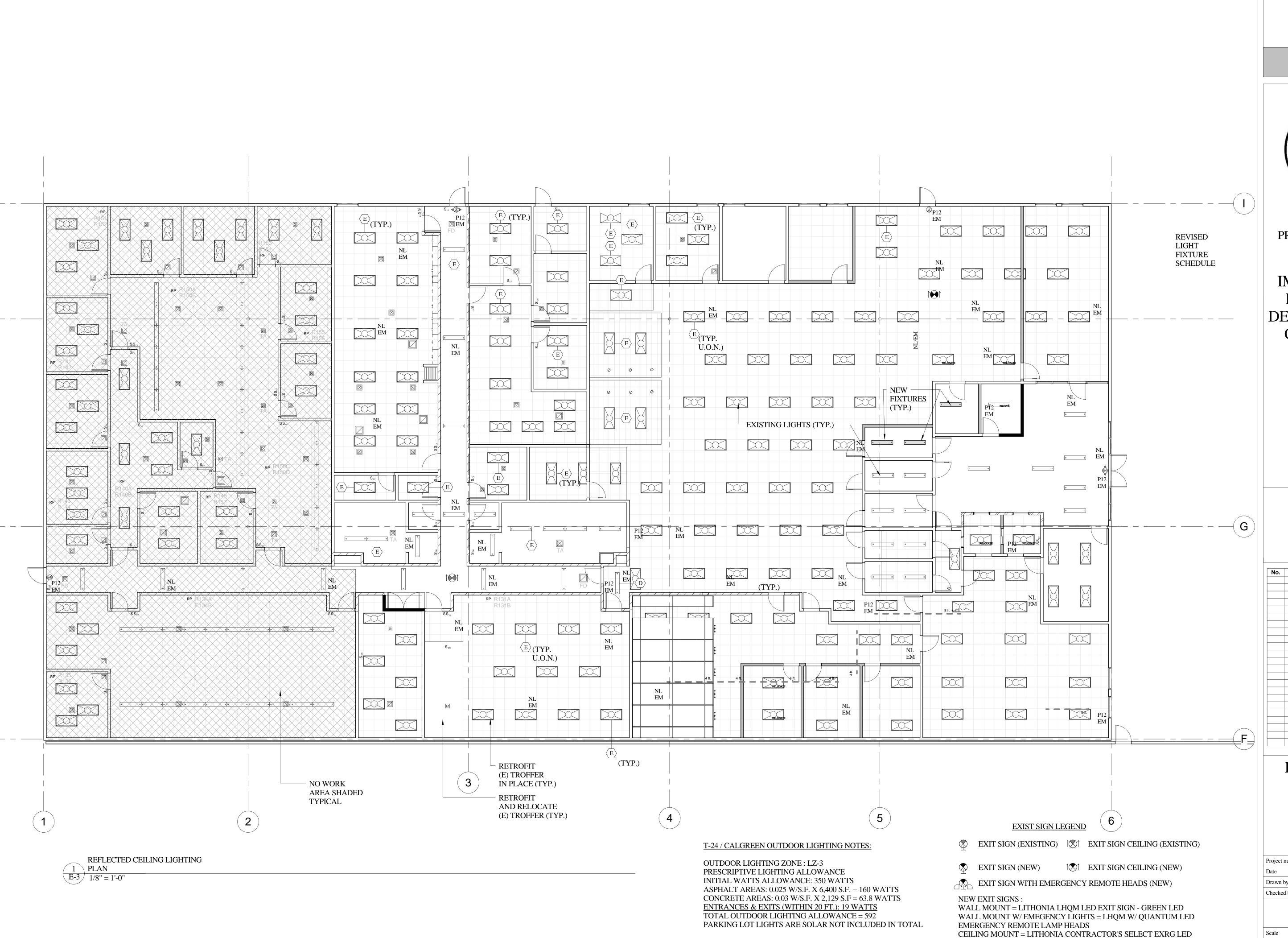


NO.	Description	Date

POWER PLAN

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

E-2



ALAMEIDA ARCHITECTURE

CONSTRUCTION MANAGEMENT

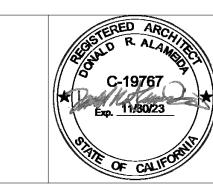
555 S. MAIN STREET, SUITE 2 SEBASTOPOL, CA 95472 (707) 824-1219 WWW.ALAMEIDA.COM



PROJECT

TENANT
IMPROVENMENTS
FOR ECONOMIC
DEVELOPMENT AND
CHILD SUPPORT
SERVICES

2420 6TH STREET EUREKA, CA



No.	Description	Dat

LIGHTING PLAN

Project number	2108
Date	10/14/23
Drawn by	Author
Checked by	Checker

E-3