GENERAL INFORMATION

LAND/BUILDING OWNER REGIONAL HOUSING AUTHORITY

MAILING ADDRESS 384 MILES AVE YUBA CITY, CA 95991

SCOPE OF WORK NEW MAINTENANCE BUILDING OF MANUFACTURED STEEL CONSTRUCTION WITH INTERIOR

> WOOD FRAMED PARTITIONS TO REPLACE EXISTING OF ROUGHLY SAME FOOTPRINT

GOVERNING CODES 2016 CA BUILDING CODE

2016 CA RESIDENTIAL CODE 2016 CA GREEN BUILDING CODE 2016 CA ENERGY CODE 2016 CA ELECTRICAL CODE

2016 CA FIRE CODE 2016 CA PLUMBING CODE 2016 CA MECHANICAL CODE YUBA CITY MUNICIPAL CODE

SITE INFORMATION

	
ASSESSOR'S PARCEL NO.	053-470-053
ZONING	R-3
PARCEL ACREAGE	62.94
WATER .	PUBLIC
SEWAGE DISPOSAL .	PUBLIC SEWER
WILDLAND URBAN INTER PER CRC R337	NO
NATURAL GAS AVAIL	YES
SITE ELEVATION	50' ASL
GROUND SNOW LOAD	Ø PSF
FLOOD ZONE/ COMUNITY N	0. X PER 0603940605E
PERMITTING AGENCY	YUBA CITY

SPECIAL FEATURES

HERS DUCT TESTING	NO DUCTS
ENERGY CERT OF COMPL . PER CF-1R	YES

LAG SCREW

WELDED WIRE FABRIC

WEIGHT

WITH

WOOD

ABBREVIATIONS

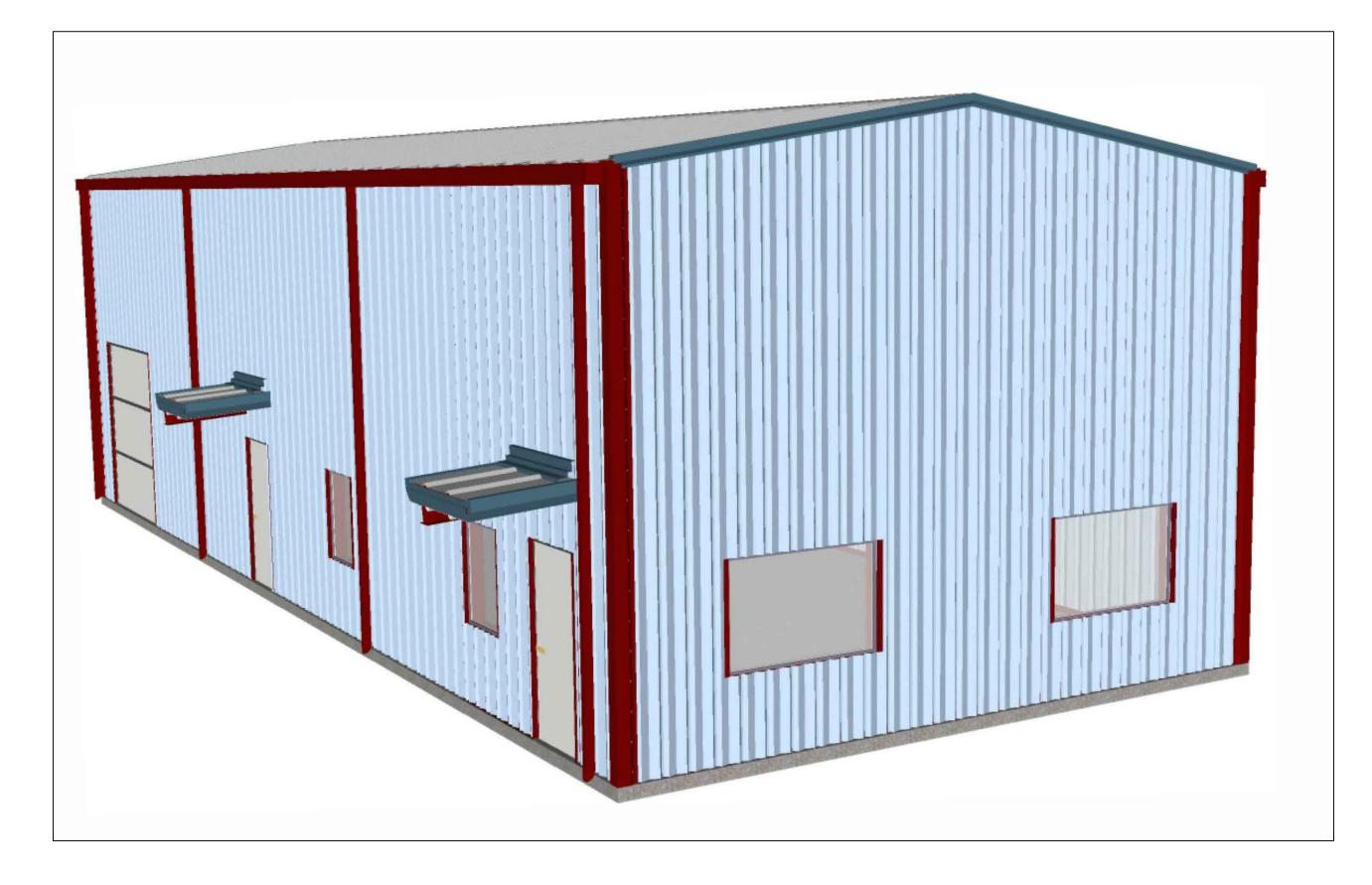
INSIDE DIAMETER

JOIST HANGER

JOIST

AB	ANCHOR BOLT		
ABV	ABOVE	МВ	MACHINE BOLT
ALT	ALTERNATE	MFGR	MANUFACTURE/D/R
ARCH	ARCHITECT/URAL	MAX	MAXIMUM
ASL	ABOVE SEA LEVEL	MECH	MECHANICAL
7.02	710012 027 22122	MET	METAL
BLK	BLOCK	MEZZ	MEZZANINE
BLKG	BLOCKING		
BOF	BOTTOM OF FOOTING	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
ВТМ	BOTTOM	(N)	NEW
BTWN	BETWEEN	NTS	NOT TO SCALE
		#	NUMBER/POUNDS
CBC	CALIFORNIA BUILDING CODE		NUMBER
CIP	CAST IN PLACE	NO	NOMBER
CLG	CEILING		
CL	CENTER LINE	OPNG	OPENING
CC	CENTER TO CENTER	OH	OPPOSITE HAND
		OD	OUTSIDE DIAMETER
CHL	CHANNEL	OV/	OVER
CJ	CEILING JOIST	01.7	
CLR	CLEAR		PENNY
CMU	CONCRETE MASONRY UNIT	d	
COL	COLUMN	PERP	PERPENDICULAR
CONC	CONCRETE	PC	PIECE
		P: PX: PXX	PIPE: PIPE X-STRONG:
CONN	CONNECTION		PIPE XX-STRONG
CONT	CONTINUOUS	PL	PLATE
CONTR	CONTRACTOR	PLYWD	PLYWOOD
CRC	CALIFORNIA RESIDENTIAL CODE		PER SQUARE INCH
СЅМ	CASEMENT	PSI	
CTRD	CENTERED	PSF	PER SQUARE FOOT
		PLBG	PLUMBING
DIAG	DIAGONAL	LBS	POUNDS
DIA	DIAMETER	PC	PRECAST CONCRETE
DIM	DIMENSION	PT	PRESSURE TREATED
DBL	DOUBLE		PROJECTION
DWGS	DRAWINGS	PROJ	1 ROOLC I ION
EΑ	EACH	R	RADIUS
EW	EACH WAY	RDWD	REDWOOD
ELEC	ELECTRICAL	REF	REFERENCE
ELEV	ELEVATION	REINF	REINFORCE/ING/MENT/D
EMBED	EMBEDMENT	REQD	REQUIRED
			REVISION
EN	EDGE NAILING	REV	
EQ	EQUAL	RO	ROUGH OPENING
EXISTG	EXISTING	RHWS	ROUND HEAD WOOD SCREW
(E)	EXISTING	RWL	RAIN WATER LEADER
EJ	EXPANSION JOINT		
EXT	EXTERIOR	SECT	SECTION
EA1	ENTERIOR		SINGLE FAMILY RESIDENCE
FC	FACE OF CONCRETE/CURB	SFR	
		SHTG	SHEATHING
FIN	FINISH	SHT	SHEET
FN	FIELD NAILING	SIM	SIMILAR
FF	FINISHED FLOOR	SN	STITCH NAIL/ED
FLR	FLOOR	SMS	SHEET METAL SCREWS
FT	FOOT/FEET	5Q	SQUARE
			STAGGER/ED
FTG	FOOTING	STAGR	
FDN	FOUNDATION	STD	STANDARD
FRMG	FRAMING	STL	STEEL
FX	FIXED	STIFF	STIFFENER
		STRUCT	STRUCTURAL
GA	GAGE		
GALV	GALVANIZED	Т&В	TOP AND BOTTOM
GL	GLU-LAM		TOP OF FRAMING
		TOF	
GR	GRADE	T05	TOP OF STEEL
	HOT DIRPER CALLES	T & G	TONGUE AND GROOVE
HDG	HOT DIPPED GALVANIZED	THK	THICK
HDR	HEADER	THRU	THROUGH
HGR			
	HANGER	TN	TOE NAIL
	HANGER	TN	TOE NAIL
нэв	HANGER HIGH STRENGTH BOLT	TS	TUBE STEEL
	HIGH STRENGTH BOLT		
HD	HIGH STRENGTH BOLT HOLD DOWN	TS	TUBE STEEL TYPICAL
HD HORIZ	HIGH STRENGTH BOLT HOLD DOWN HORIZONTAL	TS	TUBE STEEL
HD	HIGH STRENGTH BOLT HOLD DOWN	TS TYP	TUBE STEEL TYPICAL
HD HORIZ	HIGH STRENGTH BOLT HOLD DOWN HORIZONTAL	TS TYP UBC	TUBE STEEL TYPICAL UNIFORM BUILDING CODE

MAINTENANCE BUILDING FOR: REGIONAL HOUSING AUTHORITY 384 MILES AVE YUBA CITY, CA 95993





BUILDING INFORMATION

	PROVIDED	ALLOWED
MEZZANINE UNCONDITIONED	<u>1,298 SQFT</u>	
1ST FLOOR SHOP UNCOND.	718 SQFT	
1ST FLOOR CONDITIONED	1,298 SQFT	
OCCUPANCY MIXED	SEE TABLE ON A3	
SPRINKLERED	<u>NO</u>	

NO. OF STORIES	1	2
BUILDING AREA	1,298 SQFT	<u>13,500 SQFT</u>
FIRE AREA	3,314 SQFT	<u>13,500 SQFT</u>

BUILDING LOADS

ROOF SNOW LOAD	
ROOF LIVE LOAD	20 PSF
COLLATERAL LOADS	5 PSF
MEZZ FLOOR LIVE LOAD	125 PSF
MEZZ FLOOR DEAD LOAD	20 PSF

DESIGN CRITERIA

SOIL

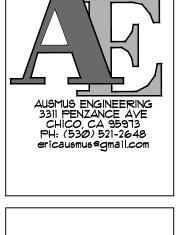
CONSTRUCTION

<u>5011</u>	
GEOTECHNICAL REPORT	NONE PROVIDED
ALLOW. SOIL BEARING PRESSI	JRE <u>1,500 PSF</u>
ALLOW. LAT. BEARING PRESSU	IRE <u>100 PSF/FT</u>
ALLOW. COHESION	130 PSF
MANUF HOMES AND COMMERCIAL MODULAR BUI DESIGNED FOR A 1,000 PSF MAX SOIL BEARIN GEOTECH TO SUBSTANTIATE HIGHER DESIGN 25, DIV 1, CH 2, SECTION 1334(D)	G CAPACITY UNLESS A
WIND	
WIND (3 SEC GUST)	110 MPH

EXPOSURE **SEISMIC** DESIGN CATEGORY

WILDLAND URBAN **INTERFACE (WUI)**

- STATE RESPONSIBILITY AREAS. NEW BUILDINGS LOCATED IN ANY FIRE HAZARD SEVERITY ZONE WITHIN STATE RESPONSIBILITY AREAS
- NEW BUILDINGS LOCATED IN ANY LOCAL AGENCY VERY HIGH FIRE HAZARD SEVERITY ZONE
- NEW BUILDINGS LOCATED IN ANY WILDLAND-URBAN INTERFACE FIRE AREA DESIGNATED BY THE ENFORCING
- NONE OF THE ABOVE. WUI REQUIREMENTS NOT APPLICABLE



BUILDING **MAINTENANCE**

DEFERRED SUBMITTALS

UPON AWARD OF THIS PUBLICLY BID CONTRACT, CONTRACTOR SHALL HAVE 45 CALENDAR DAYS TO PROCURE METAL BUILDING PLANS AND PROVIDE REACTIONS TO THE STRUCTURAL DESIGNER OF RECORD,

THE STRUCTURAL DESIGN CONSULTANT SHALL HAVE 30 CALENDAR DAYS TO REVIEW THE REACTIONS AND PROVIDE A FINAL STAMPED & SIGNED FOUNDATION PLAN AS A DEFERRED APPROVAL WITH THE CITY.

CONTRACTOR SHALL SUBMIT THE FOUNDATION PLAN TO THE CITY FOR PLAN REVIEW AND CITY APPROVAL.

METAL BUILDING PLANS & COLUMN REACTIONS FINAL FOUNDATION PLAN

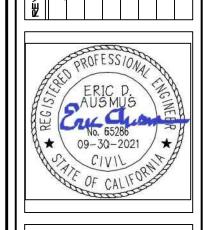
DESIGN-BUILD ELECTRICAL SINGLE LINE & PANEL SCHEDULE

SHEET INDEX

20 EN3

<u>PG</u>	<u>NO.</u>	NAME
1	ΑØ	COVER SHEET
2	A1	SITE PLAN
3	A2	FOUNDATION PLAN
4	A3	FLOOR PLAN
5	A4	SECTIONS & FINISHES
6	A5	ACCESSIBILITY DETAILS
7	Α6	MEZZANINE PLAN
8	Α7	ELEVATIONS
9	E1	ELECTRICAL PLAN
10	P1	PLUMBING PLAN
11	SD1	FOUNDATION DETAILS
12	SD2	INFILL FRAMING DETAILS
13	SD3	INFILL FRAMING DETAILS
14	55	STRUCTURAL SPECIFICATIONS
15	G1	GREEN BUILDING CODE
16	G2	GREEN BUILDING CODE
17	G3	GREEN BUILDING CODE
18	EN1	ENERGY CALCULATIONS
19	EN2	ENERGY CALCULATIONS

ENERGY CALCULATIONS



DESIGNED BY:	EDA
DRAWN BY:	EDA
CHECKED BY:	EDA
SCALE: AS NOTED	
PROJECT *	

OCT 22, 2019

PAGE *O*F

GEOTECH REPORT PROVIDED:

___ DATE: N/A

1) CONTRACTOR SHALL RECOGNIZE AND NOTIFY ENGINEER IF CLAYS OR SOILS, NOT SUITABLE FOR CONSTRUCTION, ARE PRESENT. CONSTRUCTION SHALL NOT CONTINUE WITHOUT APPROVAL OF THE DESIGNER OR ENGINEER OF RECORD.

2) THE CONTRACTOR AND/OR OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL PROPERTY LINES AND CORNERS AND SHALL ENSURE THAT CONSTRUCTION IS WITHIN ALL APPLICABLE SETBACKS AND EASEMENTS.

3) THE ENTIRE AREA TO BE COVERED BY STRUCTURES SHALL BE CLEARED AND GRUBBED TO TO REMOVE SURFACE VEGETATION AS REQUIRED.

4) ALL GRADING SHALL CONFORM TO LOCAL GRADING ORDINANCES. GRADE SURROUNDING ANY BUILDING STRUCTURES SHALL BE SLOPED A MINIMUM OF 5% AWAY FROM THE BUILDING PAD FOR A MINIMUM 10' IN ALL DIRECTIONS TO MAINTAIN SUFFICIENT DRAINAGE. WHERE PHYSICAL OBSTRUCTIONS OR LOT LINES PREVENT THIS, AN ALTERNATE METHOD SHALL BE USED TO DIVERT WATER USING A SWALE OR OTHER APPROVED METHOD.

5) THERE SHALL BE NO UTILITY TRENCHES WITHIN THE INFLUENCE ZONE OF THE FOUNDATION (A 45 DEGREE ANGLE PROJECTING FROM THE BOTTOM OF THE OUTER EDGE OF ANY FOOTING.)

6) CONTRACTOR SHALL PROVIDE A MECHANISM FOR RETAINING SITE DRAINAGE ON THE PROPERTY BY USE OF PERFORATED UNDERGROUND DRAINS TIED TO THE PROPOSED ROOF GUTTERS. PROVIDE 10' CLEARANCE TO EXISTING STRUCTURE.

7) THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.

8) THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.

9) NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE MANUFACTURER OF THE PRODUCT.

10 WHERE THE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH ANY SPECIFICATIONS, THE DESIGNER SHALL BE NOTIFIED FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

11) THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ENGINEER DO NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OF THE PROCEDURES FOR SUCH METHODS OF CONSTRUCTION. ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES WHICH ARE PERFORMED AFTER COMPLETION OF CONSTRUCTION, ARE SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECS; THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUCTION.

12) OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.

13) CONTRACTOR SHALL READ AND BE FAMILIAR WITH ALL FACETS OF THE PLANS AND SPECIFICATIONS AND SHALL REQUEST CLARIFICATION AS REQUIRED BEFORE COMMENCING CONSTRUCTION.

14) CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONSTRUCTION WHICH IS IN DEVIATION FROM THESE PLANS.

15) CONTRACTOR IS RESPONSIBLE FOR THE CORRECT INSTALLATION OF ALL MANUFACTURED PRODUCTS, INCLUDING BUT NOT LIMITED TO OSB, T1-11, PARALLAMS AND MICROLLAMS. ALL INSTALLATIONS SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

16) ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON THE BEST INFORMATION CURRENTLY AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS. NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY. CONTRACTOR IS TO FIELD VERIFY ALL CONDITIONS. SHOULD CONDITIONS BECOME APPARENT WHICH DIFFER FROM THE CONDITIONS SHOWN HEREIN THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT OR ENGINEER. THE ARCHITECT OR ENGINEER MAY THEN PREPARE ADDITIONAL DRAWINGS AS MAY BE NEEDED TO ACCOMMODATE THE NEW CONDITIONS.

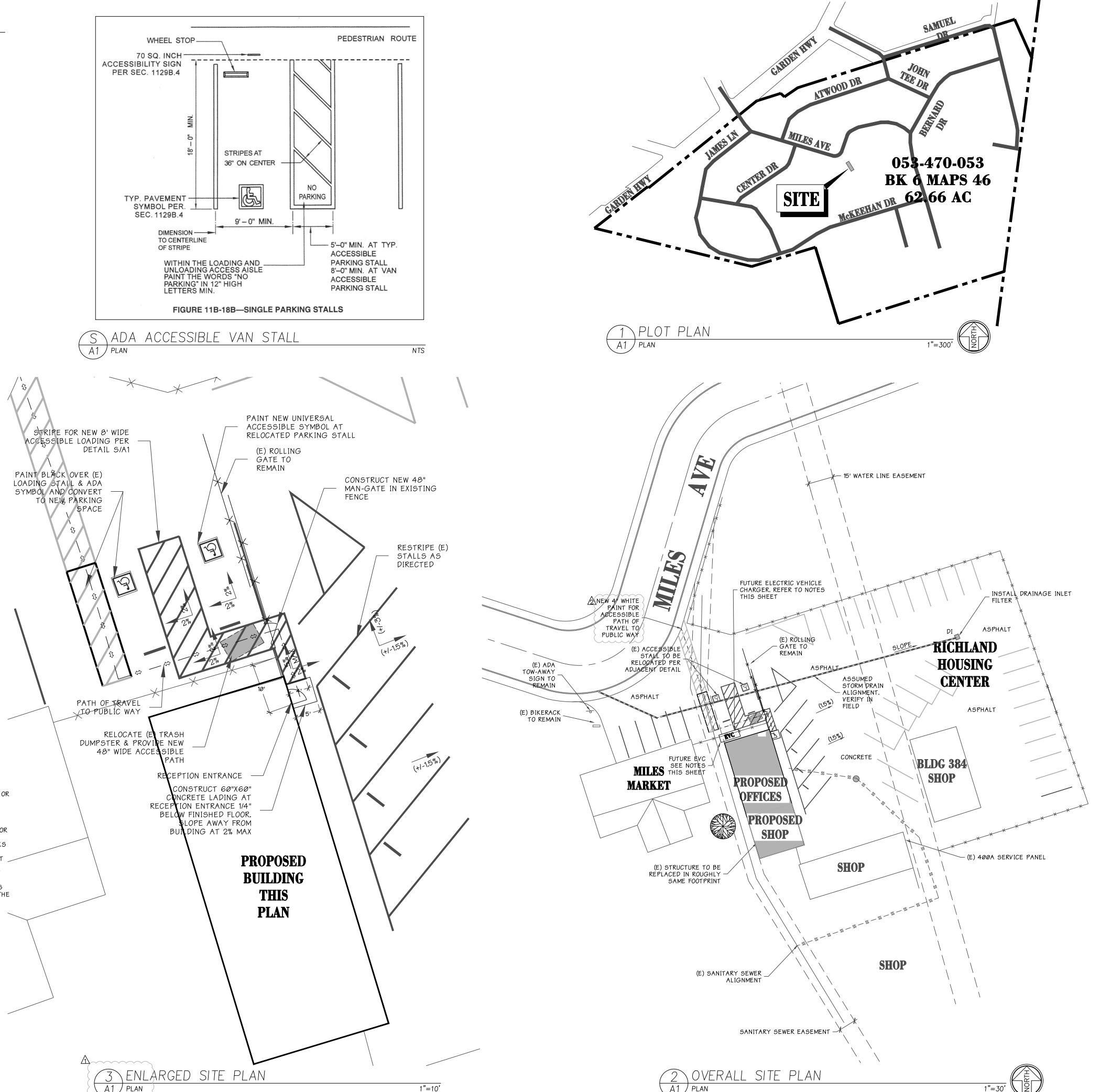
SITE BMP & EROSION CONTROL BEST MANAGEMENT PRACTICES

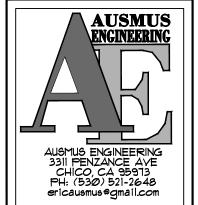
- 1. ALL SOILS TRACKED ONTO PAVED ROADWAYS MUST BE CLEARNED UP ON A DAILY BASIS. WHEN STREETS ARE WET OR DURING A RAIN EVENT THERE SHALL BE NO TRACKING OF SOILS ONTO THE STREET.
- 2. STAKE STRAW WATTLES BEHIND CURB OR SIDEWALKS
- 3. PLACE ROCK BAGS (MIN 2 PER SIDE) AT ALL DRAIN INLET LOCATIONS WITHIN 150' OF THE PROJECT SITE 4. INSTALL INTERNAL SILT FILTER BAGS IN EACH DRAIN INLET
- 5. STABILIZE ALL DISTURBED SOILS WITHIN 15' OF THE BACK OF CURB OR SIDEWALK. DISPERSE AND TACK-IN STRAW, OR USE VISQUEEN OR EROSION CONTROL BLANKETS.
- 6. ALL PAINT, FUEL, CONSTRUCTION PRODUCTS, ETC SHALL BE STORED IN A COVERED LOCATION AWAY FROM SIDEWALKS AND STORM DRAIN INLETS
- 7. PORTABLE CHEMICAL TOILETS, IF PROVIDED ON THE SITE MUST BE KEPT OFF THE STREETS AND SIDEWALKS AND AT LEASE 50' FROM THE NEAREST STORM DRAIN INLET
- 8. ALL TRASH MUST BE COLLECTED AND STORED PROPERLY. DO NOT LET ITEMS SUCH AS DRYWALL MUD BOXES, PAINT BUCKETS, CLEANING MATERIAL CONTAINERS, ETC. COME IN CONTACT WITH ANY RAINFALL OR STORM WATER RUNOFF.
- 9. PROVIDE A DESIGNATED AREA FOR CONCRETE WASHOUT. HAY BALES LINES WITH VISQUEEN MAY BE USED FOR THIS APPLICATION. ROLLAWAY BINS MAY ALSO BE USED. ALL CONCRETE WASHOUT SYSTEMS SHALL BE PLACED OFF OF THE
- 10. AFTER INSTALLATION OF THE ABOVE ITEMS IS COMPLETE, A MAINTENANCE PROGRAM NEEDS TO BE DEVELOPED TO INSURE THE CONTINUED EFFECTIVENESS OF YOUR BMP5
- FUTURE LOCATION OF ELECTRIC VEHICLE CHARGING STATION
 - INSTALL A LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT

 RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER).

 RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV
 - CHARGER.

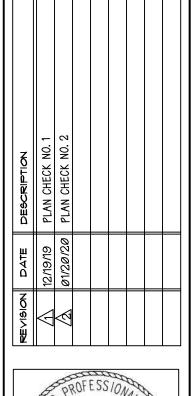
 RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES.
 - SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE. SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".





MAINTENANCE BUILDIN

384 MILES AVE YUBA CITY 95993





DATE:
OCT 22, 2019

DESIGNED BY:
DRAWN BY:
EDA
CHECKED BY:
EDA
SCALE:
A6 NOTED
PROJECT *

PAGE

SHEET NO.

A1

_____ POST AS NOTED ON PLAN

3311 PENZANCE AVE CHICO, CA 95973 PH: (530) 521-2648 ericausmus@gmail.com

SHEAR WALL AND HOLDOWN LEGEND

INDICATES SHEARWALL TYPE & LENGTH SEE SCHEDULE THIS SHEET

INDICATES HOLDOWN TYPE SEE SCHEDULE BELOW

SLAB FLOOR GENERAL NOTES

1) SEE SITE PLAN AND/OR FLOOR PLAN FOR WALKS, STOOPS, ETC. NOT SHOWN HERE. VERIFY ALL FLAT WORK WITH CLIENT PRIOR TO INSTALLATION. ALL LANDINGS SHALL BE 36"X36" SQUARE AND SLOPED BETWEEN 1% AND 2%

2) ALL FOUNDATION ANCHOR BOLTS SHALL HAVE 3"x3"x0.2296" THICK SQUARE PLATE WASHERS, TYPICAL.

3) EXTEND FOOTING DEPTH TO MAINTAIN 3" MIN. CLEARANCE BETWEEN SOIL & HOLDOWN ANCHOR BOLT WHERE OCCURS. THE FOOTING DEPTH SHALL BE MAINTAINED FOR A MINIMUM OF 6" ON ALL SIDES OF THE ANCHOR BOLT.

4) FOR NON-SHEARWALLS, PROVIDE MINIMUM 5/8" DIA. x 7" EMBED ANCHOR BOLTS AT A MAXIMUM SPACING OF 6'-0" O.C. PROVIDE A MINIMUM OF (2) ANCHOR BOLTS PER SILL, WITH (1) BOLT WITHIN 1'-0" OF EACH END OF THE SILL PLATE. REFER TO SHEARWALL SCHEDULE FOR REQUIREMENTS THAT APPLY TO SHEARWALLS

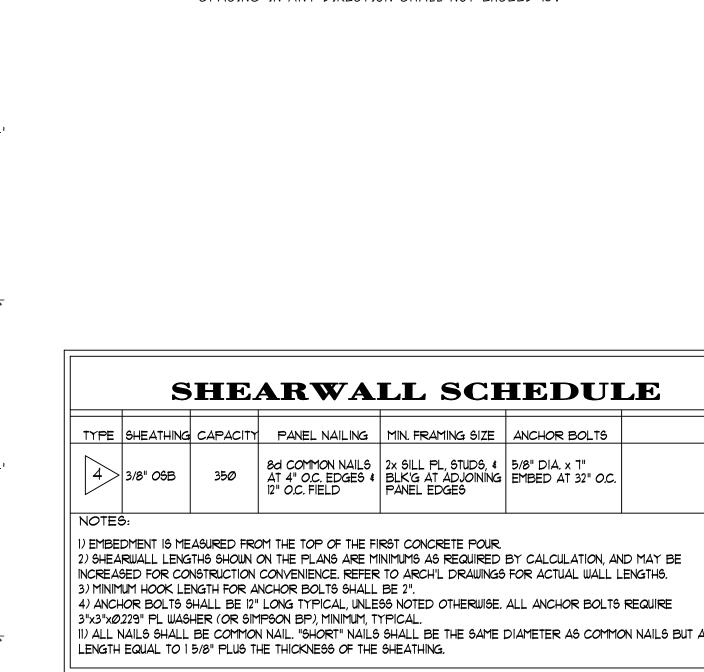
5) SLAB ON GRADE:

5" THICK CONCRETE SLAB, W/ #4 BARS AT 18" O.C. EACH WAY (AT MID-DEPTH OF SLAB), OVER 4" OF CLEAN CRUSHED GRAVEL, OVER SUB-GRADE. WHERE MOISTURE PENETRATION THROUGH THE SLAB IS A CONCERN (AS TYPICAL IN CONDITIONED AREAS), BARRIERCRETE (OR EQUIVALENT) MOISTURE REPELLENT MAY BE USED IN

WELDED WIRE MESH REINFORCING, WHILE ACCEPTABLE ACCORDING TO MINIMUM BUILDING CODE REQUIREMENTS, IS GENERALLY CONSIDER LESS EFFECTIVE AT PREVENTING/REDUCING SLAB CRACKS DUE TO SUB-GRADE SETTLEMENT, AS COMPARED TO STANDARD REBAR REINFORCING. KNOWING THIS, THE OWNER MAY OPT FOR THE 6X6 W2.9 X W2.9 WIRE MESH SHEET ALTERNATIVE, IF DESIRED.

6) VERIFY LOCATION OF PLUMBING FIXTURES

7) CONTRACTOR SHALL LOCATE CONTROL JOINTS AS REQUIRED (MAXIMUM SPACING IN ANY DIRECTION SHALL NOT EXCEED 15'.



HOLDOWN SCHEDULE BOUNDARY CAPACITY TYPE DESCRIPTION MEMBER MIDWALL/ CORNER GARAGE 10-1/4"ø x 3" LONG SDS SCREWS | DBL 2x

1) STITCH DOUBLE STUDS AT HOLDOWNS TOGETHER WITH 16d COMMONS 8" OC FULL HEIGHT OF STUDS 2) PROVIDE 12" DIAMETER (OR SQUARE) DEEPENED CONCRETE ZONE UNDER HOLDOWN ANCHORS (SSTB'S) AS REQUIRED TO ACHIEVE 3" SOIL CLEARANCE.

4) PROVIDE PANEL EDGE NAILING ALONG THE FULL HEIGHT OF MEMBER ATTACHED TO HOLDOWN. 5) POSTS AS REQUIRED BY THE HOLDOWN SCHEDULE MAY NOT BE SHOWN ON THE PLANS. USE LARGER MEMBER SHOWN

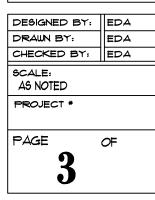
OCT 22, 2019

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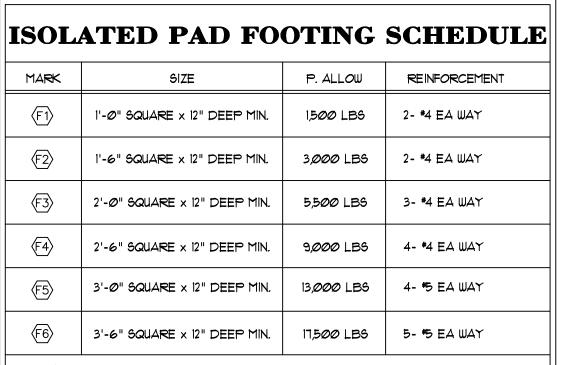
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SHEET NO.



BUILDING ARCH/STR

1) FOOTING DEPTH IS MEASURED FROM THE LOWEST ADJACENT UNDISTURBED NATURAL GRADE OR COMPACTED ENGINEERED FILL, FOOTING DEPTH MAY BE INCREASED AS REQUIRED IN THE FIELD, OR AS ADVISED BY A GEOTECHNICAL ENGINEER.

2) FOOTING SIZES AND REINFORCING IS BASED ON THE CODE MINIMUM SOIL BEARING CAPACITY

OF 1,500 PSF WITH NO ALLOWABLE INCREASE 3) REINFORCING SHALL OCCUR 3" CLEAR OF BOTTOM OF FOOTING, U.O.N.. 4) WHERE PAD FOOTINGS OCCUR AT CONTINUOUS FOOTING, THE CONTINUOUS FOOTING

REINFORCING SHALL RUN CONTINUOUS THROUGH THE PAD FOOTING, AND THE REINFORCING IN THE TABLE ABOVE SHALL BE ADDED IN ADDITION TO THE CONTINUOUS FOOTING REINFORCING. 5) CALCULATIONS ARE BASED ON CONCRETE 28-DAY STRENGHT OF 2,500 PSI. **BUILDING**

72' / A

BUILDING

(2)

SDI

SDI

13'-9 3/4"

(E) CONCRETE TO REMAIN

METAL BUILDING COLUMN FOOTINGS

|30"SQ X 22" DP | 22"

REINFORCING SHALL OCCUR 3" CLEAR OF BOTTOM OF FOOTING, U.O.N.

(5)(5.1)

5) FOOTING SIZE IS BASED OF 1,500 PSF. NO ALLOWABLE INCREASE WAS TAKEN

2.38 | 18"SQ" X 22" DP | 22"

EA WAY

(5) - #4

(2) - #4

EA WAY

(5) – #4

(2) - #4

(3/4"X18") FOR ALL OTHERS. REFER TO SHEET F1 BY METALLIC BUILDING COMPANY FOR ANCHOR BOLT LAYOUT AND ADDITIONAL INFORMATION

BUILDING

(3)

) FOOTING DEPTH IS MEASURED FROM THE LOWEST ADJACENT UNDISTURBED NATURAL GRADE OR COMPACTED ENGINEERED FILL.

) WHERE FOOTING OCCUR AT CONTINUOUS FOOTING, THE CONTINUOUS FOOTING REINFORCING SHALL RUN CONTINUOUS THROUGH

THE PAD FOOTING, AND THE REINFORCING IN THE TABLE ABOVE SHALL BE ADDED IN ADDITION TO THE CONTINUOUS FOOTING REINFORCING.

ANCHOR RODS SHALL BE STANDARD STRENGTH SIMPSON PAB. USE PAB5X18 (5/8"X18") FOR BUILDING LINE B AT WALL LINE 1 AND 4. USE PAB6X18"

LOAD(KIPS)

10' LEGS OF A #4 HAIRPIN PER 1/SD1 SDI (E) CONCRETE TO REMAIN SDI 12'-8"

CONCRETE SLAB PER GENERAL NOTE #5 BUILDING ARCH/STR.

> PER B/SD1, TYP. 12'-11 1/4"

CONTROL JOINTS

(E) CONCRETE TO REMAIN SDI

1 FOUNDATION PLAN



ANCHOR RODS

SEE NOTE 1

SEE NOTE 1

BEARING ANGLE

YES PER C/SD1

YES PER C/SD1

HAIRPIN TIES

YES SEE 1/SD1

YES SEE 1/SD1

BUILDING

SDI

(E) CONCRETE TO REMAIN

/1B-303.

ACI

FIRE CODE NOTES

Address Numbers: Approved address numbers, building numbers or approved building identification shall be placed in a position that is plainly legible and visible from the street, road, alley, and walkways giving access to and within the property. These numbers shall contrast with their background. Address numbers shall be Arabic numerals or alphabet letters. Numbers shall be a minimum of six (6) inches (152 mm) high with a minimum stroke width of 0.5 inch (12.7 mm) and shall be illuminated in an approved manner (if numbers are on the exterior). Number height and stroke width shall be increased as needed for legibility based on

Fire Extinguishers: Provide a fire extinguisher (minimum 2A-10BC) within a recessed or semi-recessed cabinet within 75 feet travel distance from all points in the occupancy; the extinguisher shall be mounted on a hook within the cabinet (elevated off cabinet floor); the top of the extinguisher shall be no higher than 48 inches (1219 mm) above the floor; extinguisher shall be placed in a easily accessible locations where they will be

Emergency lighting: Emergency lighting shall comply with the provisions of current CBC 1008. The means of egress illumination shall not be less than one (1) foot-candle at the walking surface level. In the event of power supply failure, an emergency electrical system shall automatically illuminate all areas per code.

Exit Signs: Exit signs shall be readily visible from any direction of egress travel, be illuminated at all times and comply with provisions of the current CBC

Door operations: All exit doors shall be openable from the inside without key, special knowledge, or effort. The unlatching of any exit door shall not require

Locks and Latches: The locking device for the main exterior exit door(s) shall be readily ARCH/STR. distinguishable as locked. Door shall also have a visible durable sign stating: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED." The sign shall be in letters one inch high on contrasting background (above the door); posted on the egress side or adjacent to the door."

SHOP

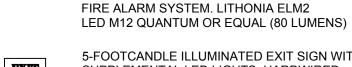
MEZZANINE

718 SQFT 1,298 SQFT

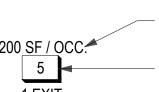
CODE ANALYSIS SYMBOLS

2X4 STUDS AT 16". USE 2X6 AT PLUMBING WALLS.

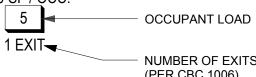
NEW 2-LIGHT LED EMERGENCY LIGHTING W/ 90 MIN BATTERY INTERCONNECTED WITH (E)



5-FOOTCANDLE ILLUMINATED EXIT SIGN WITH SUPPLEMENTAL LED LIGHTS. HARDWIRED WITH 90-MIN BATTERY BACKUP



ALLOWABLE SF PER OCCUPANT (PER CBC TABLE 1004.1.2)



NUMBER OF EXITS REQUIRED (PER CBC 1006)



TACTILE EXIT SIGNAGE PER CBC 1011.3 EXIT SHALL BE IDENTIFIED WITH THE WORD "EXIT"



PROVIDE UL LISTED COMBINATION SMOKE DETECTOR & CARBON MONOXIDE DETECTOR. BATTERY POWER, HARDWIRED AND INTERCONNECTED



1.01 MAIN PUBLIC EXIT DOOR IS PERMITTED TO BE EQUIPPED WITH KEY-OPERATED LOCKING DEVICES FROM THE EGRESS SIDE PROVIDED THE LOCKING DEVICE IS READILY DISTINGUISHABLE AS LOCKED, A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING, "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED". THE SIGN SHALL BE IN LETTERS 1" HIGH WITH CONTRASTING LETTERS. PANIC HARDWARE NOT REQUIRED FOR GROUP E OCCUPANCY PER CBC 1010.1.10

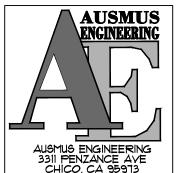
- 1.02 INSTALL 6" SQ UNIVERSAL ACCESSIBILITY STICKER OR SIGN AT ENTRANCE. MOUNT CENTER OF SIGN 60" AFF. INSTALL ADJACENT TO DOOR ON THE LATCH SIDE.
- 1.03 INSTALL ALL-GENDER SIGN PER DETAIL B/P1
- 1.04 INSTALL CALIFORNIA ACCESSIBLE DRINKING FOUNTAIN WITH BOTTLE FILLER. SEE SHEET P1
- 1.05 NEW WOOD STAIRS. 7" MAX RISE 12" MIN TREAD. SEE STRUCTURAL DRAWINGS

TEMPERED WINDOWS

- 1. ALL GLAZING WITHIN 60" FROM THE BOTTOM OF
- STAIR LANDINGS SHALL BE TEMPERED 2. ALL GLAZING WITHIN 24" OF A DOOR, INCLUDING
- ITS SWING SHALL BE TEMPERED 3. ALL GLAZING WITHIN 60" FROM THE WATER'S
- EDGE OF A BATHTUB
- 4. IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BI-FOLD DOORS
- 5. GLAZING IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING BATHTUBS AND SHOWERS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60", MEASURED VERTICALLY ABOVE THE STANDING OR WALKING
- SURFACE 6. EXPOSED AREA OF AN INDIVIDUAL PANE LARGER THAN 9 SQFT.
- 7. BOTTOM EDGE IS LESS THAN 18" ABOVE FF
- 8. ONE OR MORE WALKING SURFACES ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE OF GLAZING
- 9. WITHIN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER PANELS AND NON-STRUCTURAL IN-FILL ANELS, REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE

CLASS—A, TYPE 2—A10BC STREAM LOADED FIRE EXTINGUISHER. LOCATE SUCH THAT THE TRAVEL DISTANCE TO THE APPARATUS DOES NOT EXCEED 75 FEET. MIN. 1 EXTINGUISHER EA. 3,000 SQ. FT.

AT EACH LOCATION AS INDICATED ON THE PLAN WITH THIS SYMBOL A PORTABLE FIRE EXTINGUISHER. PORTABLE FIRE EXTINGUISHERS SHALL BE LOCATED IN CONSPICUOUS LOCATIONS WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE FOR USE. THESE LOCATIONS SHALL BE ALONG NORMAL PATHS OF TRAVEL. FIRE EXTINGUISHERS HAVING A GROSS WEIGHT NOT EXCEEDING 40 LBS SHALL BE INSTALLED SO THAT ITS TOP IS NOT MORE THAN 5'-0" ABOVE THE FLOOR. HAND-HELD FIRE EXTINGUISHERS EXCEEDING 40 LBS SHALL BE INSTALLED SO THAT ITS TOP IS NOT MORE THAN 3'-6" ABOVE THE FLOOR. CLEARANCE BETWEEN THE FLOOR AND THE BOTTOM OF INSTALLED HAND-HELD EXTINGUISHERS SHALL NOT BE LESS THAN 4 INCHES. REFER TO CFC 906 FOR ADDITIONAL REQUIREMENTS.



CHICO, CA 95973 PH: (530) 521-2648 ericausmus@gmail.com

BUILDIN ANCE

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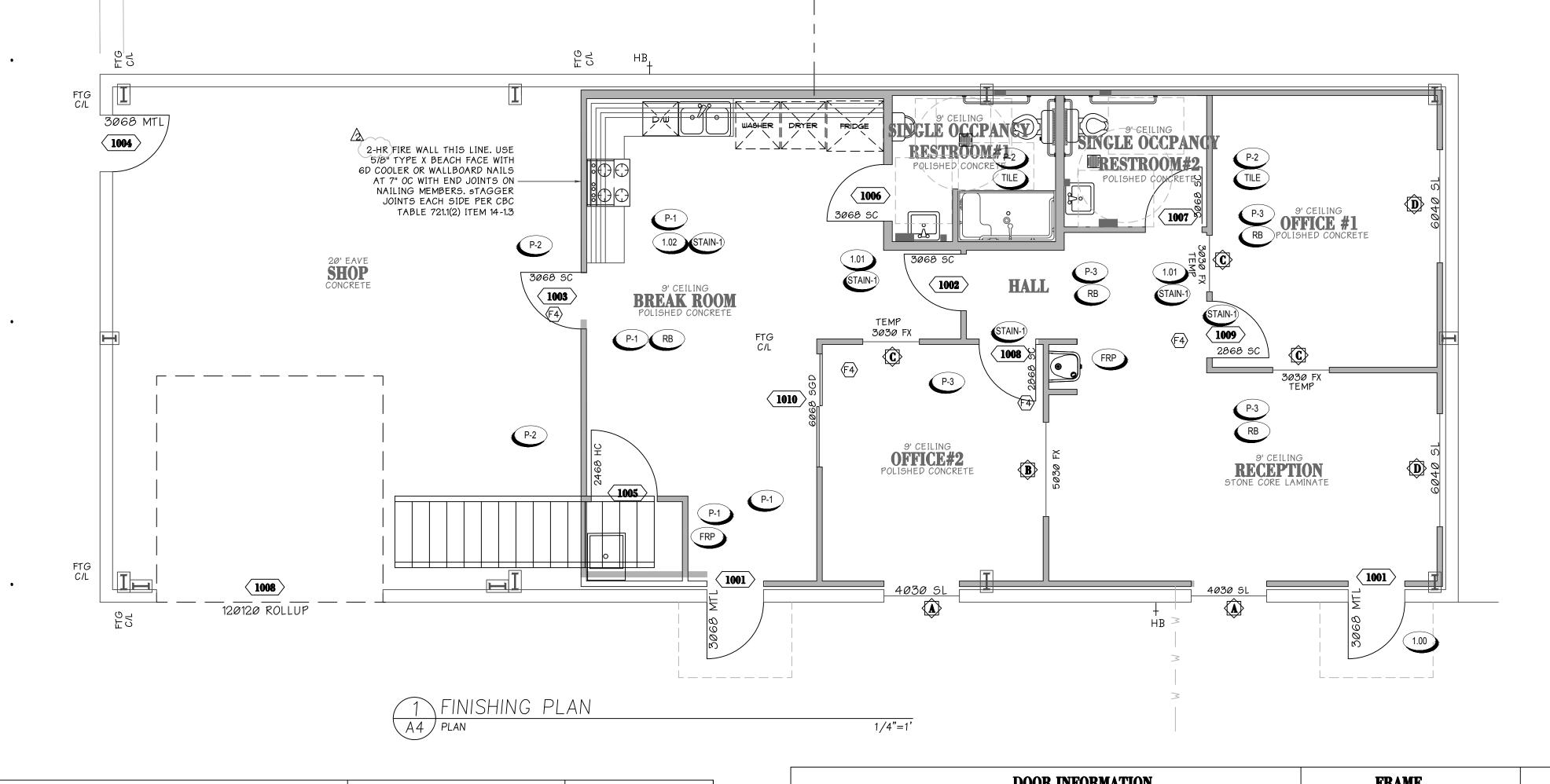


OCT 22, 2019

DESIGNED BY: | EDA DRAWN BY: EDA CHECKED BY: EDA

AS NOTED PROJECT *

PAGE *O*F



GENERAL NOTES

REFER TO FLOOR & EXIT PLAN FOR ADDITIONAL SIGNAGE NOT SHOWN HERE

REFER TO DETAIL 2/P1 FOR ADDITIONAL INFORMATION NOT SHOWN HERE

KEYNOTE LEGEND

INSTALL 6" SQ UNIVERSAL ACCESSIBILITY STICKER OR SIGN AT ENTRANCE. MOUNT CENTER OF SIGN 60" AFF. INSTALL ADJACENT TO DOOR ON THE LATCH SIDE.

INSTALL ALL-GENDER SIGN PER DETAIL B/P1

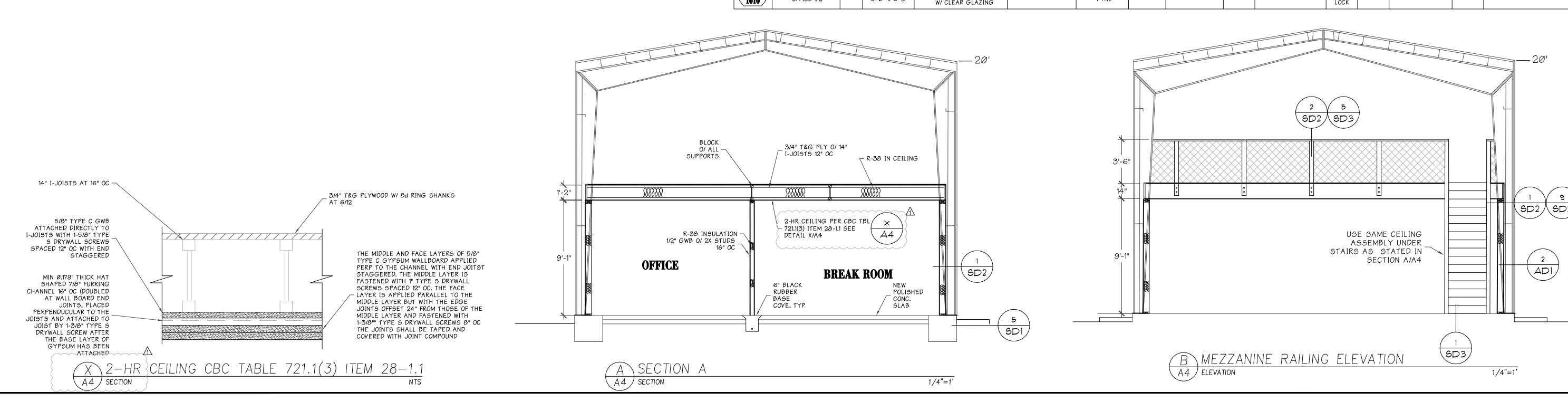
GRANITE COUNTER TOPS WITH UPPER AND LOWER CABINETS. PROVIDE SAMPLES TO OWNER AND OBTAIN CABINET DESIGN FOR APPROVAL.

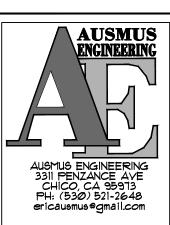
FINISH LEGEND

CALLOUT	MFGR/MODEL/SHEEN	COLOR
TILE	TO 48" ABOVE FINISHED FLOOR. DALTILE HEATHLAND SERIES 12"X12"C CERAMIC TILE W/ 3"X12" BULLNOSE P-43C9, 6X12 COVE BASE P-36C9TB	ASHLAND HLØ5 GROUT: CHARCOAL #60
FRP	FIBERGLASS REINFOCRCED WALL PANELING 4'X8'X0.090"	WHITE
P-1	SHERWIN WILLIAMS OVATION INTERIOR LATEX PAINT, EGGSHELL	SW 7004 SNOWBOUND
P-2	SHERWIN WILLIAMS OVATION INTERIOR LATEX PAINT, SEMI-GLOSS	SW 7004 SNOWBOUND
P-3	SHERWIN WILLIAMS OVATION INTERIOR LATEX PAINT, SEMI-GLOSS	SW 7037 BALANCEI BEIGE
RB	BURKEBASE 6" RUBBER WALL BASE	BLACK
STAIN1	SHERWIN WILLIAMS SHER-WOOD STAIN W/ WATER WHITE CONVERSION VARNISH, DULL RUBBED EFFECT	CINNAMON S64NØØ5Ø2

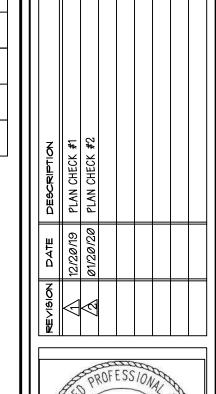
WINDOW INFORMATION GLAZING										NOTES				
KEY	QTY	WIDTH	HEIGHT	SIL FINISH	MANUF	MODEL	MATERIAL	OPERATION	FINISH/COLOR	THICKNESS	COLOR	U-VALUE	VLT	
(A)	2	48"	36"	P-3	LOCALLY SOURCED	LOCALLY SOURCED	METAL	SLIDER	DARK BRONZE ANNODIZED FINISH	1/4"	CLEAR			REFER TO ATTACHED ENERGY CALCS
(B)	1	60	36	P-3	LOCALLY SOURCED	LOCALLY SOURCED	METAL	FIXED	DARK BRONZE ANNODIZED FINISH	1/4" SAFETY GLAZING	CLEAR			REFER TO ATTACHED ENERGY CALCS
©	1	36"	36"	P-3	LOCALLY SOURCED	LOCALLY SOURCED	METAL	FIXED	DARK BRONZE ANNODIZED FINISH	1/4" SAFETY GLAZING	CLEAR			REFER TO ATTACHED ENERGY CALCS
(D)	2	72"	48"	P-3	LOCALLY SOURCED	LOCALLY SOURCED	METAL	SLIDER	DARK BRONZE ANNODIZED FINISH	1/4" SAFETY GLAZING	CLEAR			REFER TO ATTACHED ENERGY CALCS

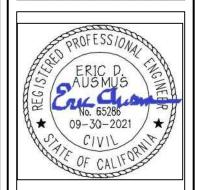
			DOOR I	NFORMATION		FRAME			HARDWARE/SIGNAGE						
MARK	ROOM NAME(S)	HAND	SIZE	STYLE/MODEL/OPTIONS	MATERIAL/FINISH	MATERIAL	THICK- NESS	FINISH	HINGES	CONTROLS	LOCKS	CLOSER	THRESHOLD	SEALS	NOTES
1001	MAIN ENTRY & SECONDARY	RT	3'-0" x 6'-8" X 1-3/4"	18 GAUGE METAL FLUSH W/ HALF GLASS TEMPERED GLASS PANEL	PAINT-3	16 GA WELDED METAL FRAME	2"	PRIME & PAINT TO MATCH DOOR	3	SCHLAG AL SERIES SAT 626 W/ PANIC BAR	DEAD BOLT	LCN-5Ø1Ø	PEMCO P-157A ALUM. FINISH	PEMK0 588	QTY OF 2. REFER TO EXIT PLAN FOR SIGNAGE
1002	HALL	RT	3'-0" x 6'-8" X 1.375"	SOLID CORE WOOD FLUSH W/ HALF GLASS TEMPERED GLASS PANEL	SLICED CHERRY OR RED OAK	PRE-HUNG		PRIME & PAINT TO MATCH DOOR	3		LEVER	LCN-5Ø1Ø			STAINLESS STEEL TOE PLATE
1003	BREAKROOM/ SHOP	RT	3'-0" x 6'-8" X 1-3/4"	18 GAUGE METAL FLUSH W/ HALF GLASS TEMPERED GLASS PANEL	PAINT-3	16 GA WELDED METAL FRAME		PRIME & PAINT TO MATCH DOOR	3			LCN-5010			1-1/2 HOUR FIRE RATED DOOR ASSEMBLY
1004	SHOP MANDOOR	LT	3'-0" x 6'-8" X 1-3/4"	18 GA HOLLOW METAL	PAINT-3	16 GA WELDED METAL FRAME	2"	PRIME & PAINT TO MATCH DOOR		SCHLAG AL SERIES SAT 626 WITH KEY	DEAD BOLT	LCN-5010	PEMCO P-157A ALUM. FINISH	PEMKO S88	BREAKROOM DOOR SIGNAGE
1005	JANITOR CLOSET	LT	2'-4" x 6'-8" X 1.375"	HOLLOW CORE WOOD 6-PANEL	PAINT-1	PRE-HUNG	-	PRIME & PAINT TO MATCH DOOR	2		LEVER W/ LOCK				JANITORIAL DOOR SIGNAGE
1006	UNISEX 1	LT		SOLID CORE WOOD FLUSH	STAIN-1	PRE-HUNG	-	PRIME & PAINT TO MATCH DOOR	2		LEVER W/ LOCK	LCN-5010	-		
1007	UNISEX 2	RT		SOLID CORE WOOD FLUSH	STAIN-1	PRE-HUNG	-	PRIME & PAINT TO MATCH DOOR	2		LEVER W/ LOCK	LCN-5010	-		REFER TO DETAIL U ON A1.2
1008	OFFICE #2	LT	2'-8" x 6'-8" X 1-3/4"	SOLID CORE WOOD FLUSH W/ TEMPERED GLASS PANEL	STAIN-1	16 GA WELDED METAL FRAME	-	PRIME & PAINT TO MATCH DOOR	3	SCHLAG AL SERIES SAT 626 KEYLESS	LEVER W/ LOCK				
1009	OFFICE #1	RT	2'-8" x 6'-8" X 1-3/4"	SOLID CORE WOOD FLUSH W/ TEMPERED GLASS PANEL	STAIN-1	16 GA WELDED METAL FRAME		PRIME & PAINT TO MATCH DOOR	3	SCHLAG AL SERIES SAT 626 KEYLESS	LEVER W/ LOCK				
1010	OFFICE #2		6'-0" x 6'-8"	DUAL PANE TEMPERED W/ CLEAR GLAZING		VYNL					LEVER LOCK			-	

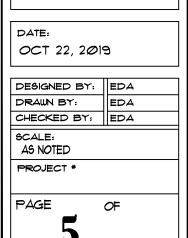




BUILDIN(MAINTENANCE I CROSS SECT FINISHES







11B-201.4: These requirements shall apply to temporary or permanent construction support facilities for uses in activities not directly associated with actual process of construction... When provided, toilet and bathing facilities. serving construction support facilities shall comply with section 11 B - 213. Exception: During construction and accessible route shall not be required etween site arrival points or the boundary of the area construction in the entrance to the construction support facilities if the only means of access between them is a

1 B- 202: Existing buildings:

ehicular way not providing pedestrian access.

11 B- 202.3 .1: Reduction in access is prohibited. 11 B – 202.4: Provide an accessible path of travel to the specific area f alteration or addition. The primary accessible path of travel shall include: 1. A primary entrance to the building or facility.

 Toilet and beating facilities serving the area. Drinking fountains serving the area. 4. Public telephones serving the area. Note Section 11 3-217, ... Not required if public telephones are not provided.

Exceptions to 11B-202.4 (Accessible Path):

Residential dwelling units shall comply with Section 11 B-233.4.2. 2. Path of travel elements constructed in compliance with the immediate receding edition of CBC shall not be required to be retrofitted to reflect the ncremental changes in the code solely because of an alteration to an area served

by those elements. 3(a). Altering one building entrance. 3(b). Altering one existing toilet facility.

3(c). Altering existing elevators.

3(d). Altering the existing steps 3(e). Altering existing handrails 4. Alterations solely for the purpose of barrier removal pursuant to the equirements of ADA or CalDAG shall be limited to the scope of work. (See

1B-204.4 for itemized list) 5. Resurfacing or restriping of (E) parking lot. 6. The addition or replacement of signs and/or identification devices. 7. Projects consisting only of HVAC, reroofing, electrical work not avolving placement of switches and receptacles, cosmetic work (eg. painting etc.)

8. (See 11B-202.4 Hardship Exception) General Exceptions 11B-203.2: Construction sites. Structures directly associated with the process of construction shall not be required to comply (eg: scaffolding, bridging, naterials hoist, materials storage and construction trailers).

11B-203.4: <u>Limited access spaces</u>. Spaces not customarily occupied and accessed only by letters, catwalks, crawlspaces, or very narrow passageways shall not be required to comply. 11B-203.5: Machinery spaces. Spaces frequented only by service

ersonnel for maintenance, repair or occasional monitoring of equipment shall not be required to comply.

1B-206 Accessible Routes 11B-206.2.1: Site arrival points. At least one accessible route shall be ovided from accessible parking spaces and accessible passenger loading ones: public streets and sidewalks; and public transportation stops to the accessible building entrance.

11B-206.2.2: At least one accessible route shall connect accessible uildings, accessible elements and accessible spaces that are on the same site. 11B-206.2.3: Multi-story buildings and facilities. At least one accessible oute shall connect each story and mezzanine in multistory buildings. See Exceptions to 11B-206.2.3 (Accessible Routes):

11B-206.3: Location. Accessible Routes shall coincide with or be located in the same area as general circulation paths. An accessible route shall not pass through kitchens, storage rooms, restrooms, closets or other spaces for

11B-206.4: Entrances: Entrances shall be on an accessible route. 11B-206.1: All entrances and exterior ground-floor exits to buildings shall comply with section 11 B – 404. Exceptions to 11B-206.1:

1. Exterior ground-floor exits serving smoke proof enclosures, stairwells, and exit doors serving stairs only shall not be required to comply. 2. Exits in excess of those required by chapter 10, and which are ore than 24 inches above grade shall not be required to comply. Such doors shall have warning signs complying with section 11 B - 703.5, stating that they are not accessible. I wasn't I was working

Accessible means of egress 11B-207.1: Means of egress shall comply with Chapter 10, Section 1007.

Parking spaces 1B-208. 11B-208.2: Minimum number. Parking spaces shall be provided in

ccordance with table 11 B – 208.2. 11B-208.2.4: Van parking spaces. For every six or fraction of six parking spaces, at least one shall be a Van parking space. 11B-208.3.1: Location. Accessible parking spaces shall be on the shortest accessible route from parking to a compliant entrance. Where parking

serves more than one accessible entrance, spaces shall be disbursed and located on the shortest accessible route to the accessible entrances. Passenger loading zones and bus stops

11B-209.2.1: Passenger loading zones. At least one compliant loading one shall be provided in every continuous 100 linear feet of loading zone space,

11B-213. Toilet rooms and bathing rooms. 11B-213.2: Where toilet rooms and bathing rooms are provided, each

vithout urinals or one water closet and one urinal.

oilet room shall comply with section 11 B – 603. Exception to 11 B – 213.2: 1. In alterations where it is technically infeasible to comply, altering xisting toilet or bathing rooms shall not be required where a single unisex toilet room or bathing room is provided and located in the same area and on the same

floor as existing in accessible toilet or bathing rooms. 4. Where multiple single user toilet rooms are clustered in a single ocation, 50%, but no fewer than one of the single-user toilet rooms at each cluster 11B-213.2.1: Unisex toilet and unisex baiting room. Unisex toilet rooms shall contain not more than one laboratory, and not more than two water closets

11 B – 213.3: Plumbing fixtures and accessories. 11B-213.3.1: Toilet compartments. --Where less than 6 toilet compartments are provided, at least one toilet compartment shall comply with Section 11 B – 604.8 .1. -- Where six or more toilet compartments are provided, or where the combination of urinals and water closets total six or more, at least one

compartment shall comply with Section 11 B - 604.8 .2. 11B-213.3.2: <u>Water closets</u>. Where water closets are provided at least one shall comply with section 11 B – 604. 11B-213.3.3: <u>Urinals</u>. Where one or more urinals are provided at east once shall comply with Section 11 B - 605.

11B-213.3.4: Lavatories. Where lavatories are provided at least 5% but no fewer than one shall comply with Section 11 B – 606. 11B-213.3.5: Mirrors. Where mirrors are provided at least one shall comply with Section 11 B – 603.3.

11B-213.3.6: <u>Bathing facilities</u>.
11B-213.3.7: <u>Coathooks and shelves</u> in toilet rooms.

11 B – 214. Washing machines and clothes dryers: Where three or ewer washing machines and/or clothes dryers are provided, at least one shall comply with Section 11 B – 611. Where more than three are provided, at least two shall comply with section 11 B – 611.

11B – 215. Fire alarm systems 11 B – 215.2: alarms in public use areas in common use areas shall omply with Chapter 9, Section 90 7.5.2.3.1. Exception: In existing facilities, visible alarms shall not be required except here the existing fire alarm system is upgraded or replaced, or a new fire alarm system is installed.

|1 B – 216. Signs 11 B – 216.1: Signs shall comply with Section 11 B – 703. See Exception: to 11 B - 216.

11 B – 217.1: Where pay telephones are provided, accessible ephones shall be provided in accordance with Section 11 B – 270.

1 B – 219. Assistive listening systems 11 B – 219.2: An assistive listening systems shall be provided in ssembly areas, including conference and meeting rooms.

11 B - 219.3: The minimum number of receivers shall be equal to 4% of the otal number of seats, but in no case less than two. 25% minimum of receivers provided, but no fewer than two, and shall be hearing aid compatible.

11 B – 221. Assembly area seating 11 B - 221.1: Assembly areas shall provide wheelchair spaces, companior seats, designated aisle seats, and semi-ambulant seats complying with Section 11 B - 221 and 11 B - 802

11 B – 229. Windows 11 B - 229.1: Where glazed openings are provided in accessible rooms or spaces for operation by occupants, at least one opening shall comply with Section 11

11 B – 247 Detectable warnings 11B-247.1.2.1: Platform edges. Shall comply with Section 11B-705.1.1 and ramp landing to less than 42" 11B-705.1.2.2 11B-247.1.2.2: Curb ramps. Shall comply with Section 11B-705.1.1 and 11B-705.1.2.2 11B-247.1.2.3: Islands or cut-through median's. Shall comply with Section 11B-705.1.1 and 11B-705.1.2.3

11B-302 Floor surfaces

11B-302.2: Carpet shall be securely attached. Carpet shall have the level oop, textured loop, level cut pile, level cut/uncut pile texture. File height shall be one | access file is 96"wide minimum. half inch maximum. Exposed edges shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with Section 11 B - 303.

11 B – 302.3: Openings in floor or ground surfaces shall not allow passage of a sphere more than one half inch diameter except as allowed in Sections 11 B – 407.4 .3. (Platform to waste away your).

11 B – 303 Changes in level 11 B – 303.2: Vertical changes in level of 1/4 inch high maximum shall be ermitted to be vertical and without edge treatment.

11 B - 306.2 Toe clearance

finish floor.

11 B – 303.3: Changes in level between 1/4 inch high minimum and 1/2 inch | and located be visible from the adjacent vehicular way. igh maximum shall be beveled with the slope not steeper than 1:2. 11 B – 303.4: Changes in level greater than 1/2 inch high shall be ramped and shall comply with Section 11 B – 405 or more 11 B – 406. 11 B – 303.5: Abrupt changes in level exceeding 4 inches in a vertical limension between walks, sidewalks or other pedestrian ways and adjacent surface shall be identified by warning curbs at least 6 inches in height above the walk or

sidewalk surface. Exception: 1) A warning curb is not required between a walk or sidewalk and the adiacent street or driveway.

11 B – 304.2: Turning spaces shall not be sloped greater than 1:48. 11 B – 304.3 .1: Circular turning space shall be 60 inches diameter minimum. The space shall be permitted to include knee and toe clearance complying with Section 11 B - 306. 11 B – 304.3 .2: <u>T–Shaped turning space</u> shall fit within a minimum 60 inch

12 inches beyond the leg on each side, and the leg shall extend a minimum of 24 inches below the arms. Ends of the arms and leg shall be permitted to include me and told clearance complying with Section 11 B - 306. 11 B – 304.4: Doors shall be permitted to swing into turning spaces.

11 B - 306.2 .2: Toe clearance shall extend 25 inches maximum under an 11 B - 306.2.3: Toe clearance required as a part of clear floors pace shall extend 17 inches minimum under the element. See Exceptions to Section 11 B - 306.2.3, and Figure 11B-306.3

11 – 306.2 .5: Told clearance shall be 30 inches wide minimum.

11 B - 306.2 .1: Toe space shall extend a minimum of 9 inches above the

Knee clearance: See CalDAG Figure 306.3 11 B - 306.3 11 B - 306.3 .5: Knee clearance shall be 30 inches wide minimum

11 B - 307 Protruding objects: See CalDAG Figures 11B-307.2, .3, and .4

11 B - 308 Reach ranges: See CalDAG Figure 308.2.2. Accessible routes

11 B – 402.2: Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, CalDAG compliant doorways, ramps, curb ramps (excluding the flared sides), elevators and

11 B – 403 Walking surfaces 11 B – 403.3: The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48. <u>hed for the adjacent street or highway</u> 11 B – 403.5.1: Except as noted in section 11 B – 403.5.2 and 5.3 (width at

minimum. (See CalDAG Figure 403.5.1) Exceptions: 1. The clear with may be reduced to 36 "minimum for any length of 24" kimum provided that reduced with segments are separated by at least 48 inches. With four walking surfaces and core doors serving an occupant load of 10 | maximum. r more shall be 44 inches minimum. 3. The clear with four sidewalks and walks shall be 48 inches minimum. If

right-of-way restrictions, natural barriers, or other existing conditions, and the enforcing dimension of 2 1/4" maximum agency determines that compliance with the 48 inch clear sidewalk with would create in unreasonable hardship, the clear with may be reduced to 36 inches. 4. The clear with for aisles shall be 36 inches minimum if serving elements on only one side, and 44 inches minimum if serving elements on both sides. 11 B – 403.5 .3: An accessible route with a clear space less than 60" shall rovide passing spaces at intervals of 200 feet maximum. Passing spaces shall be either a space 60 inches minimum by 60" minimum or an intersection of two walking surfaces providing a T-shaped space complying with section 11 B – 304.3 .2. 11 B – 403.7: All walks with continuous gradient shall have resting areas 60" | See Figure 11 B – 505.10.1 n length at intervals of 400 feet maximum resting areas shall be at least as wide as the lock the slope of the resting area in all directions shall be 1:48 maximum.

11 B – 404 Doors, doorways, and Gates Exception: Doors, doorways, and Gates designed to be operated only by security personnel shall not be required to comply. A sign visible from the approach | | 11 B – 602 site complying with section 11 B – 703.5 shall be posted stating "Entry restricted and controlled by security personnel" 11 B – 404.2 .1: Revolving doors, gates, and turnstiles shall not be part of an

11 B - 404.2 .2: Double leaf doors and gates. At least one of the activities of doorways with two leaves shall comply with Sections 11 B – 404.2 .3 and 11 B – 404.2.4

11 B – 404.2 .3: Door openings shall provide a clear width of 32 inches minimum. Clear openings of doorways this doors shall be measured between the face between 38" & 43" above the finish floor. of the door and the stop, with the door open 90°. Openings more than 24 inches deep shall provide a clear opening of 36 inches minimum. There shall be no projections into the required openings lower than 34 inches above the finish floor. Projections into the | deep. Or similar wing walls as deep as the fixture & to within 6" of the floor. clear opening with above 34 inches and less than 80 inches above the finish floor or round shall not exceed 4 inches.

Exceptions: 1. In alterations, a projection of 5/8 inch maximum into the required clear width shall be permitted for the latch side stop. 2. Door closers in doorstops shall be permitted to be 78 inches minimum above the finish floor or ground. 11 B - 404.2 .4: Maneuvering clearances. See CalDAG Figures 11 B -

404.2.3 through Figure 11 B – 404.2.6 11 B – 404.2 .9: Door and gate opening force. The force for pushing or oulling open a door or gate other than fire doors shall be 5 pounds maximum. The force required to open fire doors shall not exceed 15 pounds. Exceptions:

 Exterior doors to machinery spaces. 2. When it a single location, if one of every eight exterior door leaves is a owered door, other exterior doors at the same location serving the same interior space may have a maximum opening force of 8.5 pounds. The powered leaf shall be located closest to the accessible route.

finish floor vertically shall have a smooth surface on push side extending the full width on an accessible route. All operable parts shall be 40 inches maximum above the of the door. Parts creating horizontal or vertical joints in those services shall be within | finish floor. 1/16 inch of the same plane and be free of sharp or abrasive edges.

11 B - 405 11 B – 405.2: Slope. Ramps shall have a slope not steeper than 1:12. 11 B - 405.3: Cross slope shall not be steeper than 1:48. 11 B - 405.5. The clear width of a ramp shall be 48 inches minimum.

Exception: The clear width of ramps in residential uses serving an occupant | shall be provided in front of the water closet. load of 50 or less shall be 36 inches minimum between handrails. 11 B – 405.6: The rise for any ramp run shall be 30 inches maximum.

11 B – 405.7: Except where the ramp changes direction or the top and bottom of the ramp the landing width shall be at least as wide as the widest ramp run

11 B - 405.7.2.1: The **Top landing** shall be 60" wide by 60" long min. 11 B – 40 5.7.3.1: Bottom landings shall extend 72" minimum in the

tion of the ramp run 11 B - 405.7.4: Changes in direction. Landings between ramp runs that change direction shall have a clear landing width of 60" minimum, and shall extend 72" minimum in the direction of downward travel from the upper ramp run. 11 B – 405.7 .5: Where doorways are located adjacent to a ramp, doorway euvering clearances may overlap the required landing area, however: 1. Doors, when fully open, shall not reduce the required ramp and equipped by more than 3"

11 B – 405.9 .2: A curb 2" high minimum, or a barrier that prevents the passage of a 4" diameter sphere shall be provided, uninterrupted, along the length o

11 B – 502 Parking spaces (See Figures 11B – 502.2 through 11B – 502.3 .3) Car parking spaces: Shall be 216" long by 108" wide min. Van parking spaces: Shall be 216" wide by 144" wide.

11 B - 502.3: Access aisles shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle. 11 B – 502.3 .1: Width: Access files shall be 60" wide minimum

11 B - 502.3 .3: Markings: Access aisles shall be marked with a blue painted borderline around the perimeter. The area within the blue borderline shall be marked with hatched lines a maximum of 36" on center in a color that contrasts with that of the aisle surface preferably blue or white. The words "NO PARKING" shall be painted on the surface in each access aisle white letters a minimum of 12" high 11 B – 502.3 .4: Location: Access aisle shall not overlap the vehicular

Van parking space aisles shall be located on the passenger side of the parking

11 B - 504.2: Treads and risers. All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4" high minimum, and 7" high maximum. Treads shall be 11" deep minimum. Open risers are not permitted. Exceptions: 1. On exterior stairways an opening of not more than 1/2" may be permitted between the base of the riser and the tread.

and not more than 1/2" may be permitted. 11 B – 504.4: **Tread surface** shall not have a slope steeper than 1:48. 11 B – 504.4 .1: Contrasting stripe. The upper approach to stairs and square with minumum 36 inch wide arms and leg. Arms shall extend the minimum of | lower trade shall be marked by a stripe providing clear visual contrast. Exterior stairs shall have all treads marked by a stripe providing clear visual contrast. 11 B - 504.5: Nosings. The radius of curvature at the leading edge of the tread shall be one half inch maximum. Nosings that project be on the risers shall have the underside of the leading edge curve or beveled. Risers are permitted the slope under the tread at an angle of 30° maximum from vertical. The permitted projection of the nosing shall extend 1 1/4" maximum over the tread below. 11 B - 504.8: Floor identification. In an enclosed stairway, each level shall be identified with a sign adjacent to the door entering the enclosed stairway. Signs shall be located adjacent to the latch side of the door. At the exit discharge level, the signs shall include a raised five pointed star located to the left of the identifying lower-level. The outside diameter the start shall be the same as the height of the characters

> 11 B – 505.2: Handrails shall be provided on both sides the stairs and ramps. Exceptions:

Curb ramps to require handrails. 3. At door landings, handrails are not required when the ramp is less than 6" in rise or 72" in length. 11 B - 505.3: Continuity. Handrails be continuous within the full length of each pair flight or ramp run. Inside handrails on switch back or dogleg stairs and ramps shall be continuous between flights or runs. Exception:

the aisle width. 11 B – 505.4: Height. Top of gripping surfaces of handrails shall be between 34" minimum and 38" maximum above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, 11 B – 505.5: Clearance between handrail gripping surfaces and adjacent

Exception: the running slope of sidewalks shall not exceed the general grade surface shall be 1 1/2" minimum. Handrails may be located in a recess if the recesses is 3" deen and 18" minimum above the top of the handrail. 11 B – 505.6: Handrail gripping surface shall be continuous along its length curns, and width of passing spaces), clear width of walking surfaces shall be 36 inches | and shall not be obstructed along the top or sides. Where provided horizontal projections shall occur 1 1/2" minimum below the bottom of the handrail gripping

circular cross-section shall have an outside dimension of 1 1/4" minimum and 2" 11 B – 505.7 .2: Noncircular cross sections shall have a perimeter dimension of between 4" minimum and 6 1/4" maximum and a cross-sectional

11 B - 505.10: Handrail extensions. Exceptions: 1. Extensions are not required for continuous to handrails at the inside tun of switch back or dogled stairs and ramps. 3. In alterations, where the extension of handrails would create a hazard, the extension may be turned 90° from the ramp run. 11 B - 505.10 .1: Ramp handrails shall extend horizontally for 12" beyond the top and bottom of ramp runs. Extensions shall return to the wall, guard, or the landing surface, or shall be continuous to the handrail of of an adjacent ramp run.

11 B - 505.10 .2: Stair handrails shall extend horizontally for 12" beyond depth of one stair tread) beyond the **bottom** step tread nosing.

Drinking fountains (See Section) 11B-211.2: No fewer than 2 drinking fountains shall be provided. --One shall comply with 11B-602.1 thru 11B-602.6 for wheelcair accessibility: 11B-602.2 -->11B-305.3: Provided 30"x48" clear space, centered. --Alcoves for perpendicular approach to be 36" wide if deeper than 24". --Alcoves for parallel approach to be 60" if deeper than 15". --> 11B-305.4: Provide Knee & Toe Space per Figure 11B-306.3(a) --Spout to be 36" max above fin. floor, & 5" max, from front edge. --One shall comply with Section 11B-602.7 for standing access: Spout to be

11B-602.8: Depth: Between 18" min. & 19" max. 11B-602.9: Fixture to be located completely within alcove 32" wide x 18"

11 B – 603 Toilet and bathing rooms 11 B – 603.2 .1: Turning space complying with Section 11 B – 304 shall be provided within the room. 11 B - 603.2 .2: Overlap. Required clear floor spaces, clearances it

clearance required for any fixture. Other than the door to accessible water closet compartment, a door in any position, may encroach into the turnings base by 12" maximum. (See Exceptions to 11 B – 603.2 .3) 11 B – 603.3: Mirrors located above lavatories are countertops shall be installed with the bottom edge of the reflecting surface 40 inches maximum above

11 B – 603.4: Coathooks, shelves and medicine cabinets. 11 B - 603.5: Accessories. Where dispensers, waste receptacles, other 11 B – 404.2 .10: Swinging door and gate surfaces within 10 inches of the | | accessories are provided in toilet facilities at least one of each type shall be located

> 11 B – 604 Water closets and toilet compartments. (See Figures 11 B – 11 B - 604.2: The centerline of the water closets shall be between 17" min 11 B = 604 3 1. Clearance around the water closets shall be 60 inches

11B-604.8.1.2: Doors to toilet compartments shall provide a clear width or

32 inches minimum

leading to the landing

2. Doors, and any position, shall not reduce the minimum dimension of the

Exception: Van parking spaces may be 108" wide minimum where the

11 B – 502.3 .2: Length: Access aisles shall extend the full required length of the parking spaces they serve.

On exterior stairways, risers constructed of grating containing opening.

11 B - 505 Handrails 1. In assembly areas, handrails are not required on both sides of aisle ramps where a handrail is provided at either side or within the aisle.

In assembly areas, handrails are not required adjacent to seating or within

hinged door

From hinge side

From hinge side

From latch side

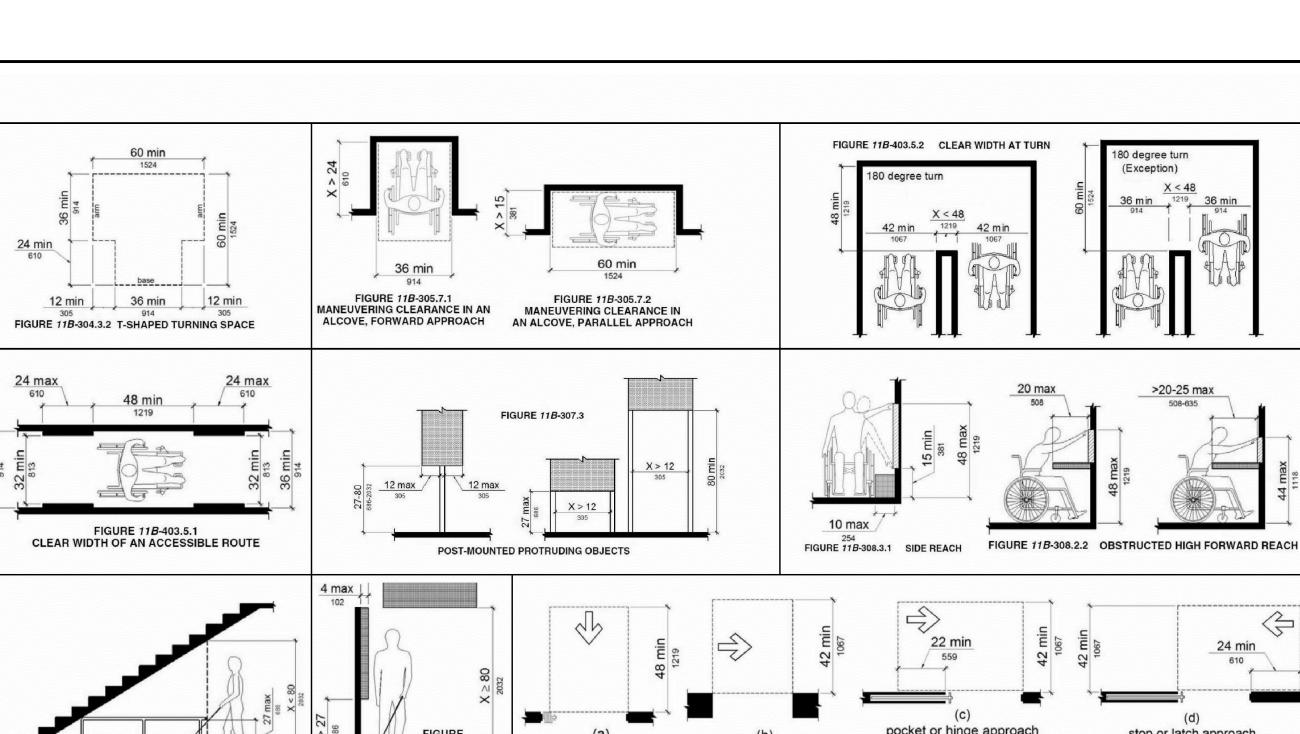
11 B - 505.7 .1: Circular cross section. Handrail gripping surface with a

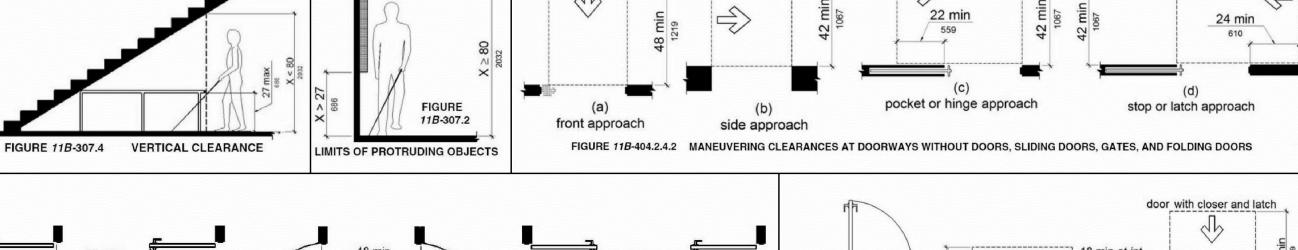
the **top** step tread nosing 11 B - 505.10 .3: Stair handrails shall extend horizontally for (12" plus the

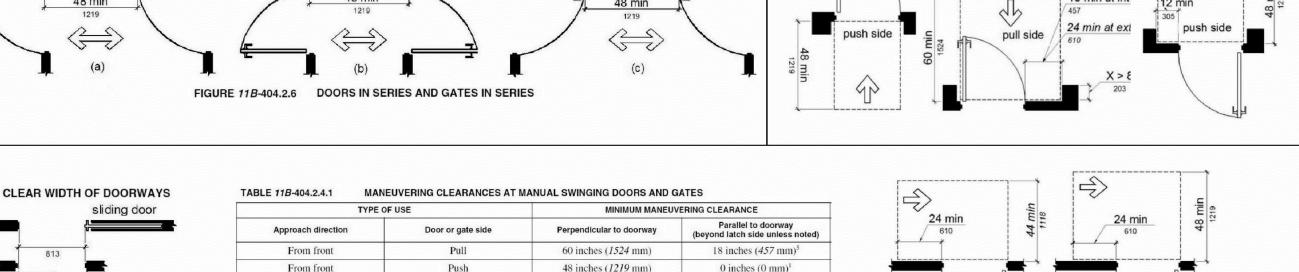
ixtures, and turning space shall be permitted to overlap. 11 B – 603.2 .3: Door swing shall not overlap the clear floor space or

the finish floor. Mirrors not located above lavatories are countertops shall be installed with the bottom edge of the reflecting surface 35 inches maximum above the finish

604.2 through Figure 11 B – 605.2. and 18" max. From the sidewall or partition. Handrails may project into the required width 3 1/2 inches on each side at the handrail | minimum measured perpendicular to the sidewall and 56" minimum measured perpendicular to the rear wall. A minimum 60" wide and 48" deep maneuvering space

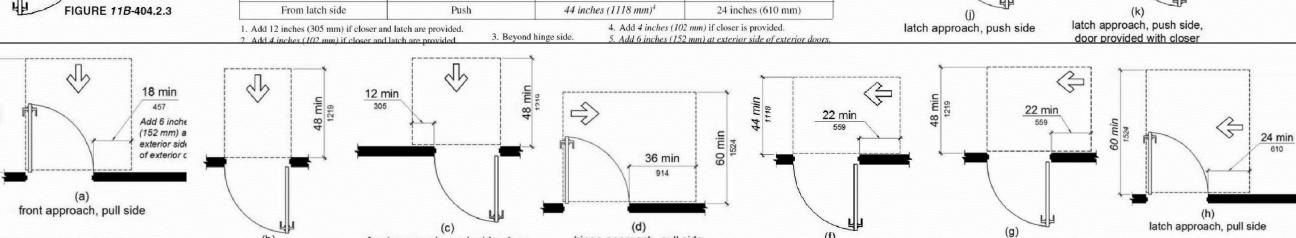






36 inches (914 mm)

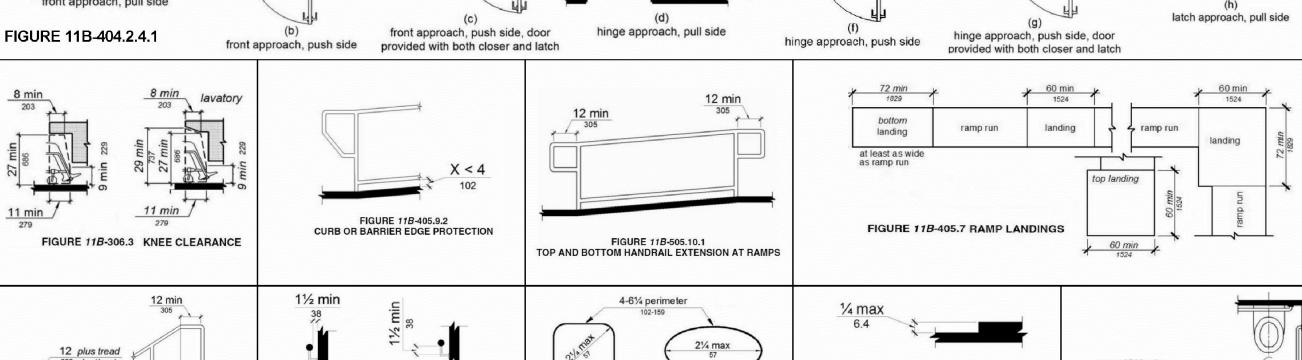
22 inches (559 mm)

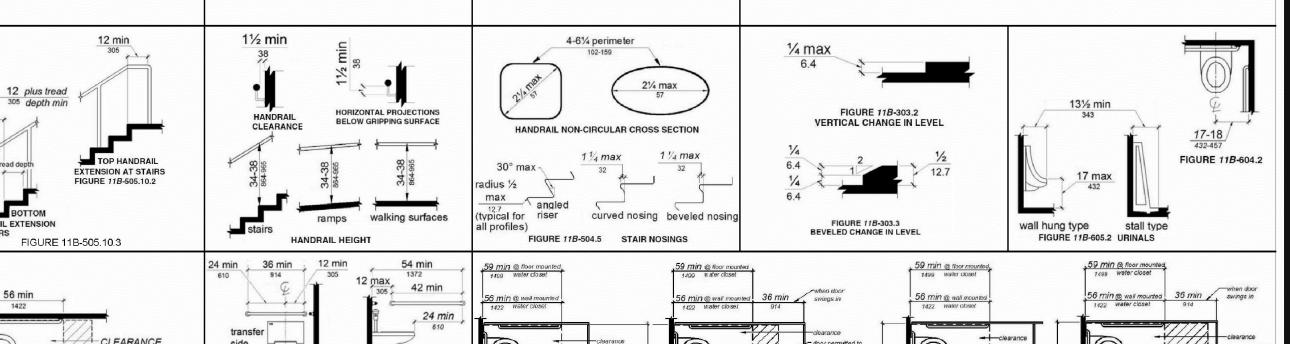


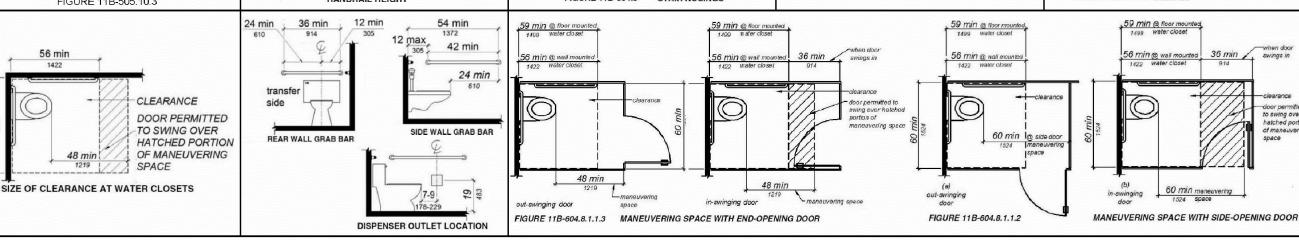
60 inches (1524 mm)

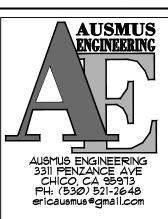
44 inches (1118 mm)

60 inches (1524 mm



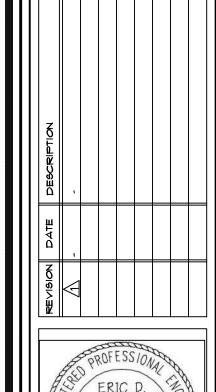


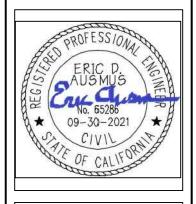




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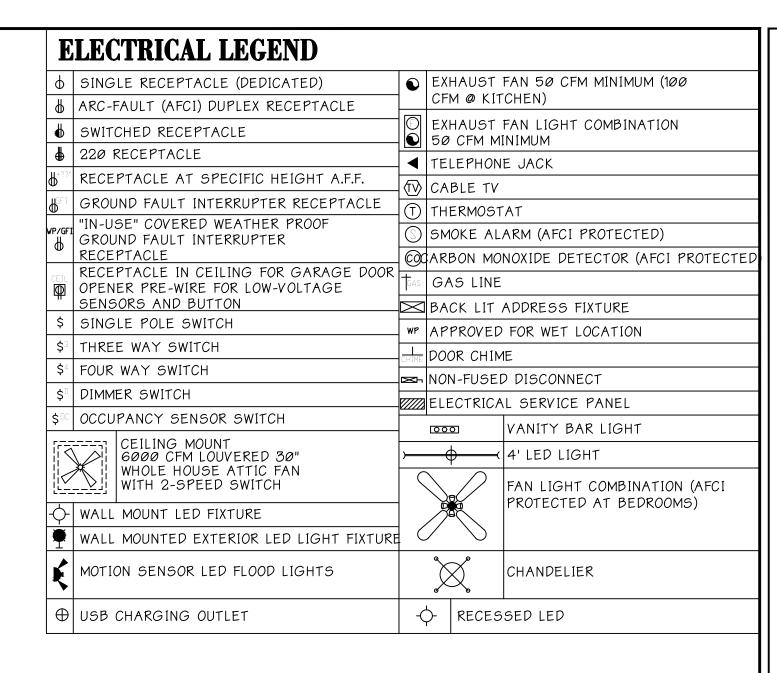
	1	FLOOR BE.	AM SCHEI	DULE
BEAM I.D.	SIZE	SUPPORT LEFT/BOTTOM	SUPPORT TOP/RIGHT	COMMENTS
FBØI	3.5x18 PGL	4x4 LSL	4x4 LSL	
FBØ2	3.5x14 P6L	4x4	4x4 L9L	
FBØ3	4x12 DF. #2	DBL 2X4	DBL 2X4	ST2215 STRAP AT BEAM SPLICE AT ABUTTING BEAMS

1. REFER TO SHEAR WALL AND HOLDOWN SCHEDULES FOR POSSIBLE GOVERNING POST REQUIREMENTS.

2. ALL POSTS ARE DF#2 U.O.N. DEFINITIONS:

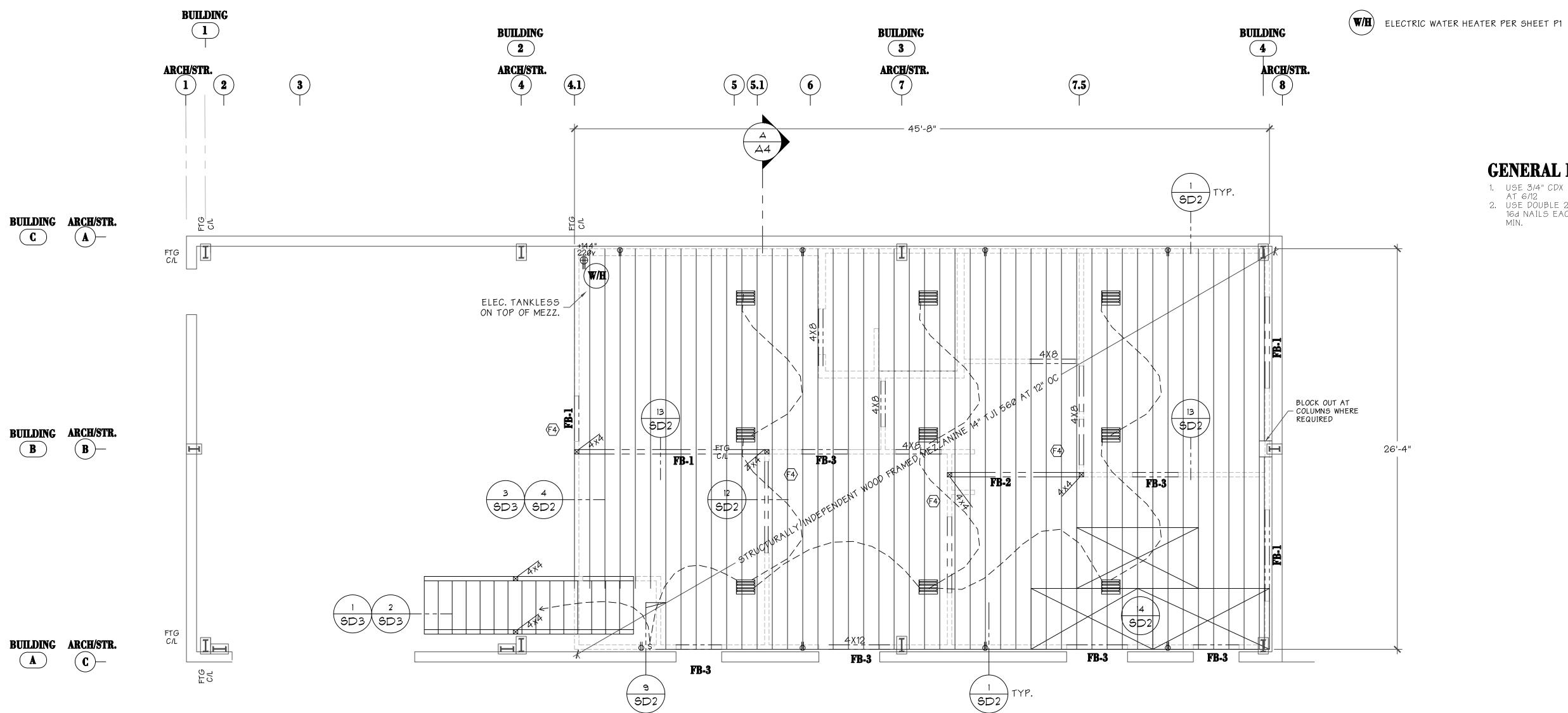
B.O.B = BOTTOM OF BEAM T.O.P. = TOP OF BEAM T.O.T.P. = TOP OF TOP OF PLATE HGR = HANGER GLB = GLULAM BEAM 1.8E FL = FLUSH

PSL = PARALLAM BEAM 2.0E LVL = MICROLLAM BEAM LVL 1.9E FB = FLOOR BEAM RB = ROOF BEAM L6L = TIMBERSTRAND BEAM 1.5E DB = DECK BEAM



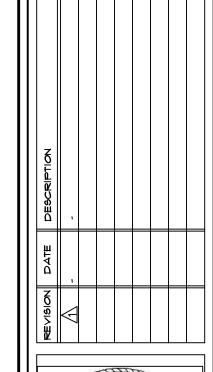
12,000 LUMENS LED HI-BAY LIGHT FIXTURE SUSPENDED FROM (E) ROOF PURLINS (QTY 8)





GENERAL NOTES

1. USE 3/4" CDX W/ 8d RING SHANKS AT 6/12 2. USE DOUBLE 2X TOP PLATE W/ (12) 16d NAILS EACH SIDE OF SPLICE,



AUSMUS ENGINEERING 3311 PENZANCE AVE CHICO, CA 95913 PH: (530) 521-2648 ericausmus@gmail.com

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OCT 22, 2019

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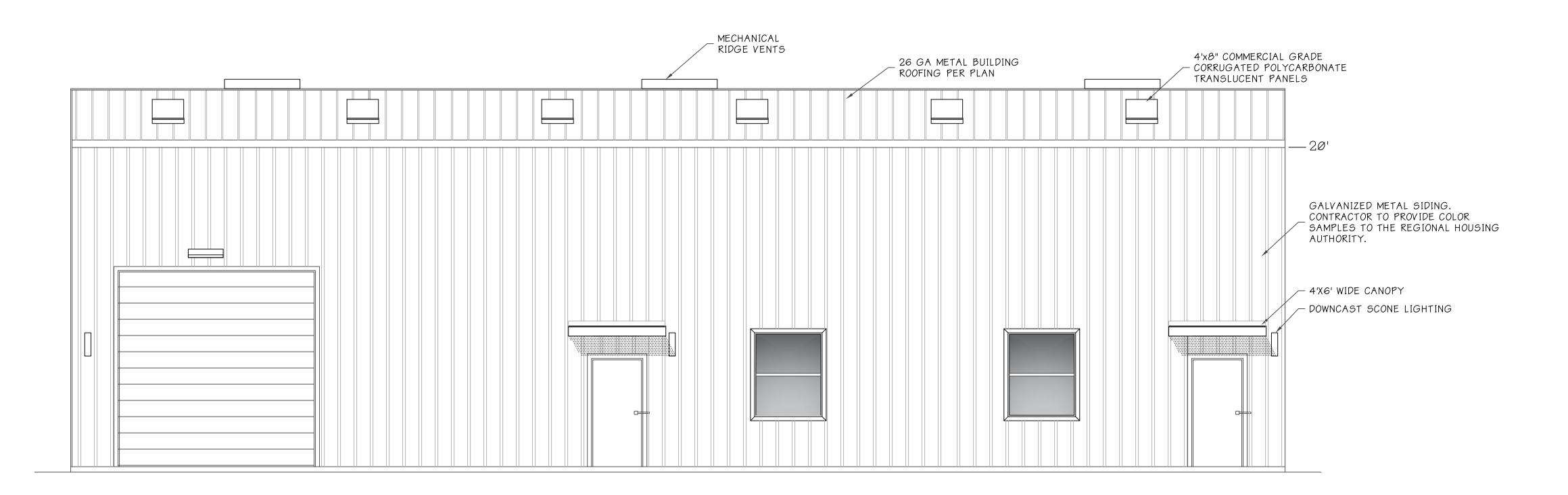
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PAGE

SHEET NO.

A MEZZANINE PLAN
A5 SECTION

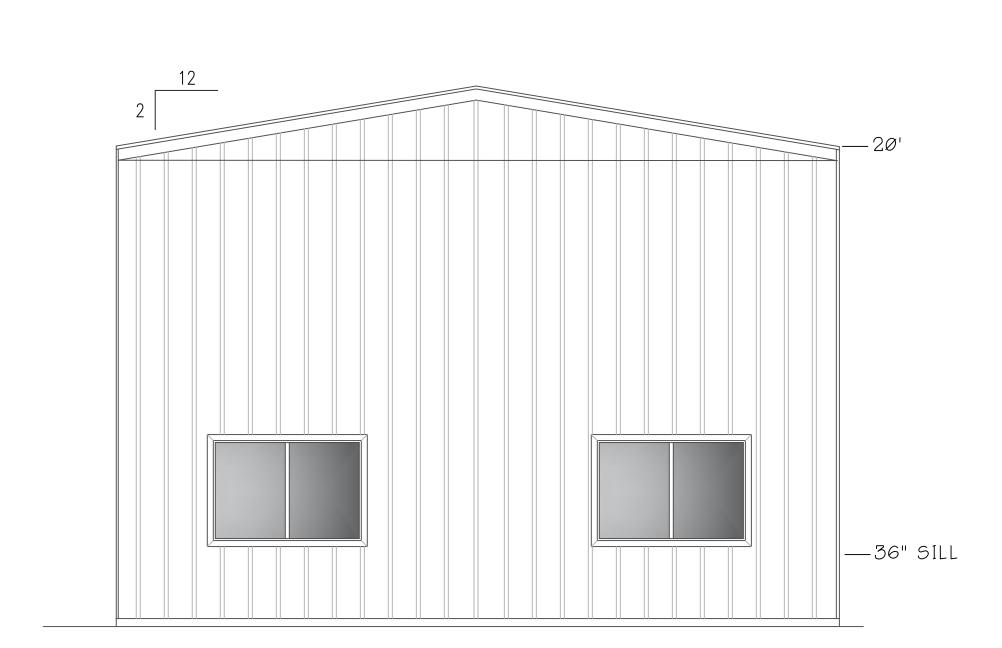
1/4"=1



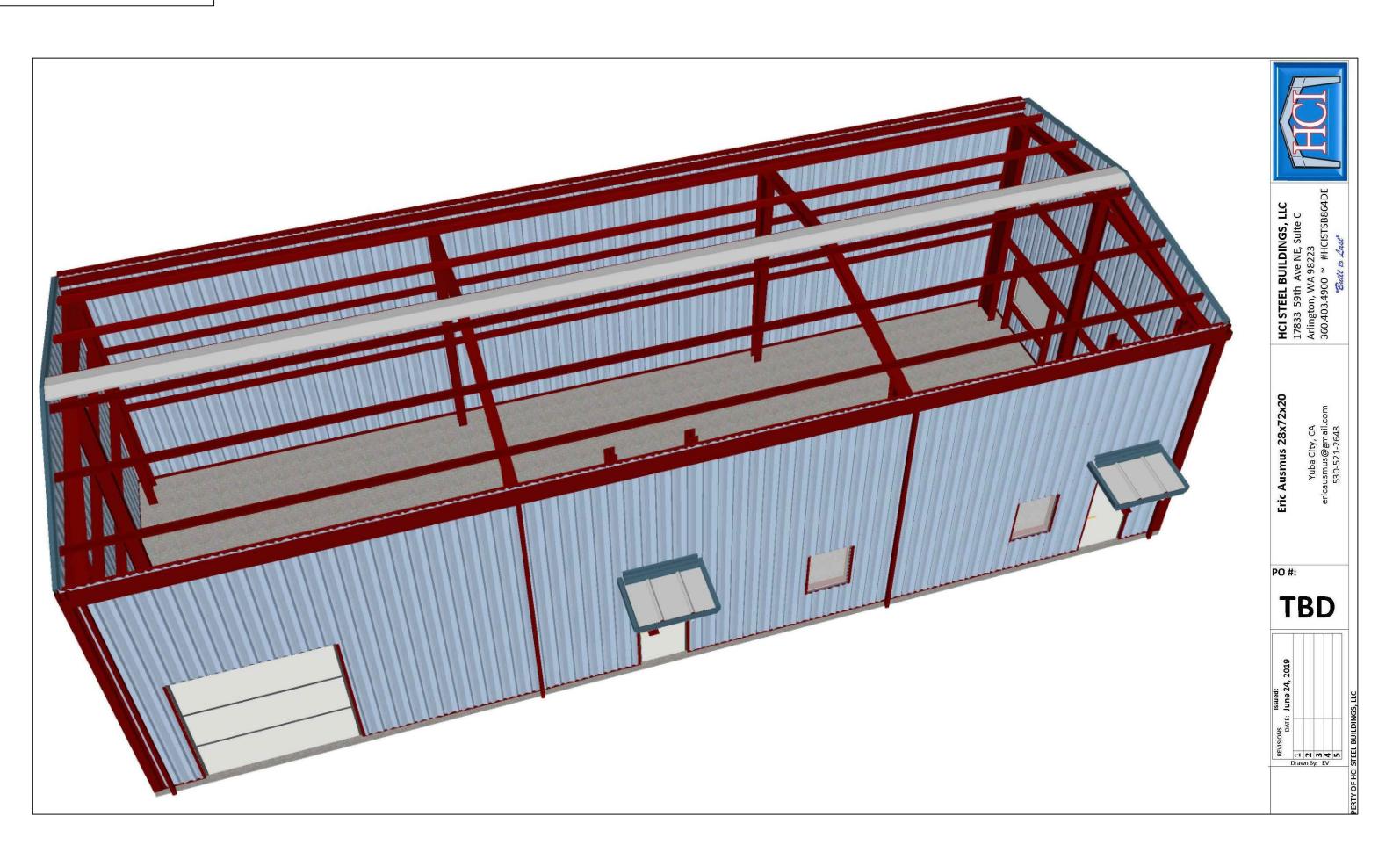
1 FRONT ELEVATION A6 ELEVATION

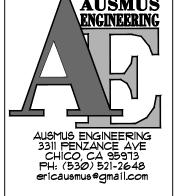
1/4"=1'

NOTE: REAR ELEV SIMILAR WITH NO WINDOWS OR DOORS



2 RIGHT ELEVATION A6 ELEVATION 1/4"=1' NOTE: LEFT ELEV SIMILAR WITH NO WINDOWS OR DOORS

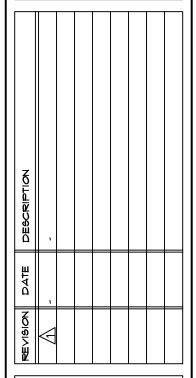




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YUBA CITY 9



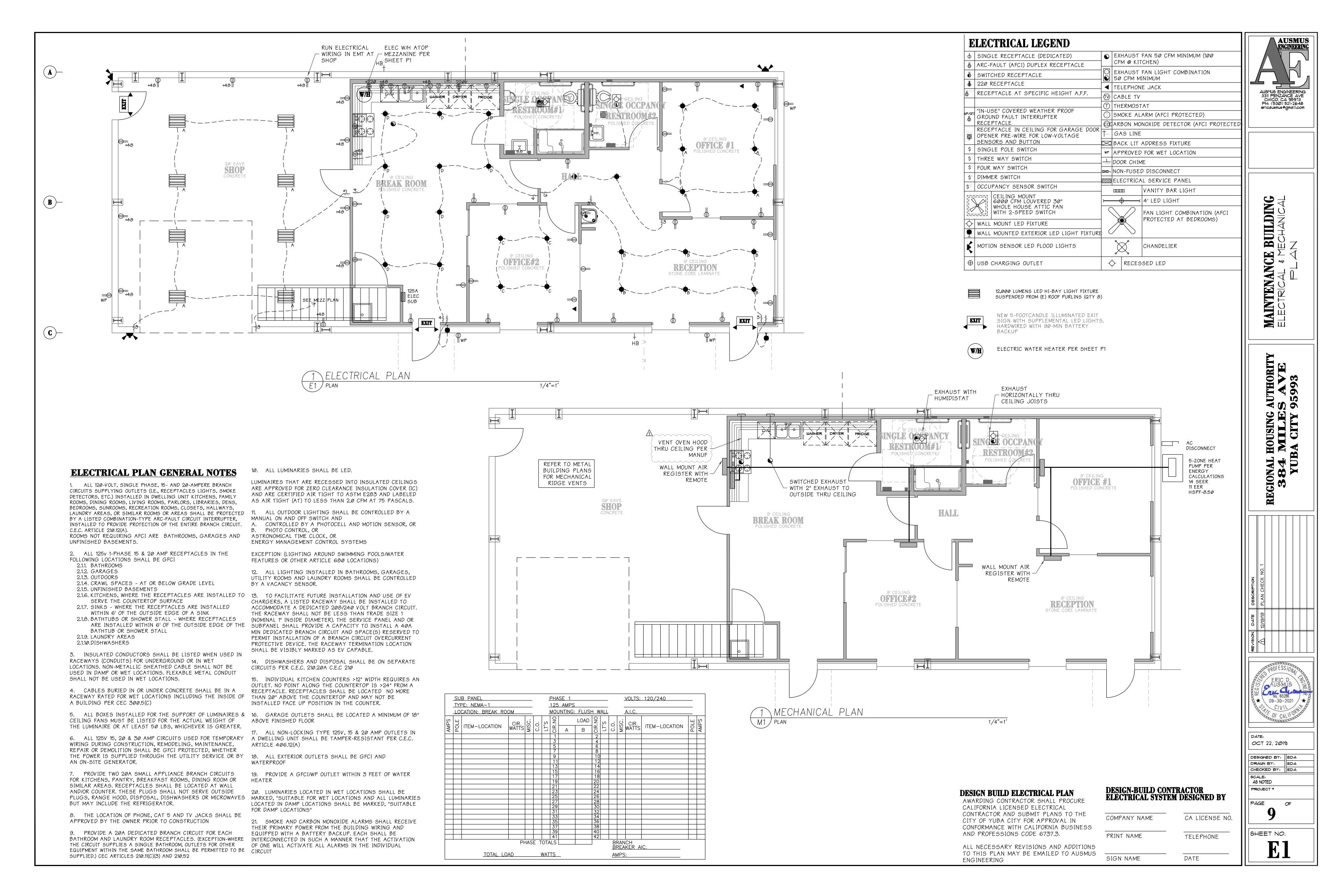


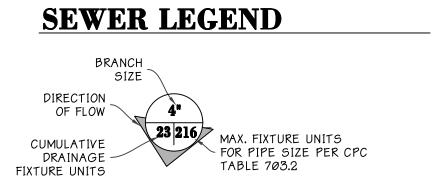
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PAGE





- S S NEW ABS SEWER PIPE. SEE PLAN FOR SIZE
 - ABS VENT THRU ROOF W/ 10' SEPARATION FROM AIR INTAKE SEE FIXTURE BRANCH SCHEDULE FOR SIZE
 - 2" FLOOR DRAIN & TRAP

SEWER GENERAL NOTES

LAVATORY SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110 DEGREES F.

ALL PLUMBING VENTS SHALL BE 10' AWAY FROM ALL HVAC OUTSIDE AIR INTAKES UNLESS THE VENT OUTLET IS 3' ABOVE THE OUTSIDE AIR INTAKE PER SECTION 806.6.1, CMC.

ALL SANITARY WASTE PIPING SHALL SLOPE AT 1/4" PER FOOT MINIMUM PER CPC SECTION 708.0.

A PAN SHALL BE PROVIDED FOR OVERFLOW OF CONDENSATION FROM COOLING COILS PER SECTION 310.2, CMC TO DRAIN INTO LAVATORY TAILPIECE OR TRAP ON FLOOR DRAIN.

PROVIDE WH T&P RELIEF DRAIN TO EXTERIOR. TERMINATE IN A DOWNWARD DIRECTION 6-24" ABOVE GRADE

ELECTRIC W/H ATOP

MEZZ PER SCHEDULE ~ QZ THIS SHEET

FIXTURE BRANCH SCHEDULE

DESCRIPTION	QTY	PIPE 6	IZES TO F			REMARKS
		DW	Y	CW	HW	
FLOOR MOUNTED WATER CLOSET	2	3	2	1	-	16 GPF MAX PER GREEN CODE
LAVATORY	2	1-1/2"	1-1/2"	1/2	1/2	SEE FIXTURE DETAIL
WATER HEATER	1	-	-	3/4	3/4	RHEEM XE40M06ST45UI 40 GAL. ELECTRIC 240V 4500 WATT
KITCHEN SINK	1	1-1/2"	1-1/2"	1/2	1/2	FLORESTONE SR-1 SINK IN BREAKROOM WITH 100DST DELTA FAUCET
SHOWER	1	2	2	1/2	1/2	SEE FIXTURE DETAIL
URINAL	1	2	2	1/2	-	SEE FIXTURE DETAIL
MOP SINK	1	2	1-1/2"	1/2	1/2	FLORESTONE MODEL MSR-2424 MOLDED MOP SINK WITH MR-371 FAUCET
WASH MACHINE	1	2	1-1/2"	1/2	1/2	LOCALLY SOURCED

SEWER ABBREVIATIONS

RUN 3/4" COPPER OR PEX - COLD WATER WITHIN IN CEILING FRAMING

CO: CLEANOUT DFU: DRAINAGE FIXTURE UNITS VTR: VENT THROUGH ROOF

> 1/2" FIXTURE - BRANCH LINES,

WATER SUPPLY LEGEND

EXISTING		NEW
W W	COLD WATER OVERHEAD	—— W —— W ——
	HOT WATER	

WATER SUPPLY GENERAL NOTES

HOT AND COLD WATER: USE TYPE L COPPER TUBING, HARD TEMPER WITH WROUGHT COPPER FITTINGS. CAPPED OR PLUGGED OUTLETS SHALL BE SCHEDULE 40 SCREWED BRASS. PROVIDE FULL SOLDER CUP FITTINGS.

PLUMBING NOTES

- 1. ALL PLUMBING VENTS SHALL BE 10' AWAY FROM ALL HVAC OUTSIDE AIR INTAKES UNLESS THE VENT OUTLET IS 3' ABOVE THE OUTSIDE
- 2. ALL SANITARY WASTE PIPING SHALL SLOPE AT I" PER FOOT
- MINIMUM 3. SHOWERS AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE, THERMOSTATIC, OR COMBINATION PRESSURE BALANCE/THERMOSTATIC MIXING VALVE
- 4. WATER HEATERS 4.1. WATER HEATERS SHALL BE INSTALLED ON A RAISED PLATFORM A MINIMUM OF 18" ABOVE GRADE
- 4.2. PROVIDE A 120V ELECTRICAL RECEPTACLE THAT IS WITHIN 3 FEET FROM THE WATER HEATER AND ACCESSIBLE WITH NO
- OBSTRUCTIONS 4.3. PROVIDE A CATEGORY III OR IV VENT, OR TYPE B VENT WITH STRAIGHT PIPE BETWEEN THE OUTSIDE TERMINATION AND THE SPACE WHERE THE WATER HEATER IS INSTALLED
- 4.4. WATER CLOSETS SHALL BE SET NO CLOSER THAN 15" FROM ITS CENTER TO A SIDE WALL OR OBSTRUCTION, NOR CLOSER THAN 30" CENTER TO CENTER TO A SIMILAR FIXTURE PER CPC 402.5

KEY DESCRIPTION MANUF | MODEL | COLOR OTY FLOOR MOUNT WATER CLOSET 1.0 GPF ab KOHLER | 4467-0/4199-0 | WHITE OPEN FRONT SEAT COVER SELF SUSTAIN CHECK HINGE KOHLER K-4731-SA WHITE 2 WALL HUNG LAVATORY 21-1/4"X18-1/8" VITREOUS CHINA KOHLER K-2005-0 WHITE 2.01 FAUCET W/ Ø.35 GPM AERATOR AND GRID STRAINER 523LFHDF DELTA 5/5 5/5 1-1/4" 36" GRAB BAR BOBRICK | B-5806 X 36" | B-5806 X 42" 5/5 1-1/4" 42" GRAB BAR BOBRICK 5/5 RECESSED MULTI-ROLL TP DISPENSER BOBRICK B-35883 5/5 HEAVY DUTY SURFACE MOUNTED SOAP DISPENSER BOBRICK 818615 5/5 SURFACE MOUNTED PAPER TOWEL DISPENSER BOBRICK B-262 2005Y 5/5 FLOOR DRAIN 5" SQUARE SMITH

BOBRICK

KOHLER

B-4221

K-5452-ET-Ø

35-62H

5/5

WHITE

WHITE

RESTROOM PLUMBING SCHEDULE

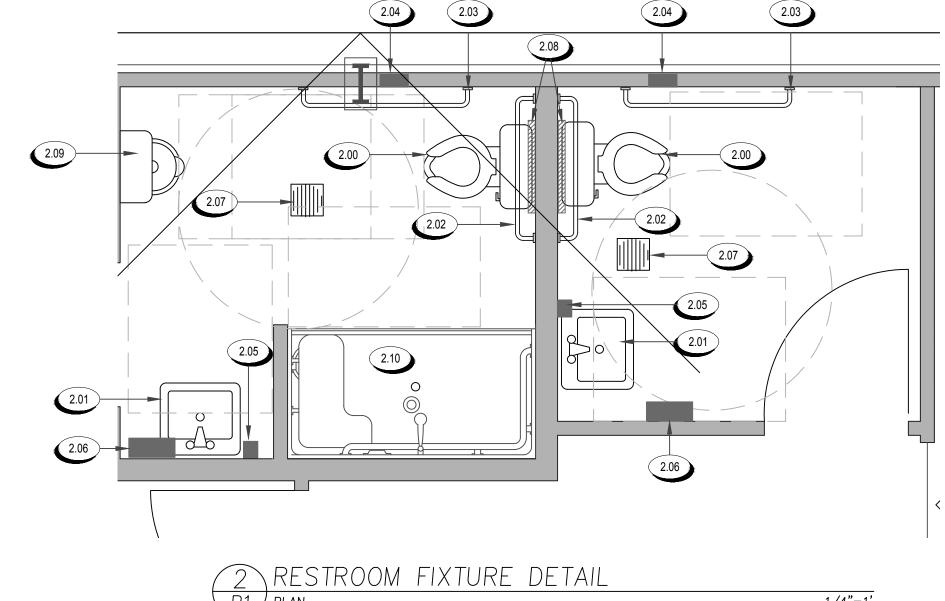
a. ORDER 1 WITH LEFT HAND TRIP LEVER AND 1 WITH RIGHT HAND TRIP LEVER

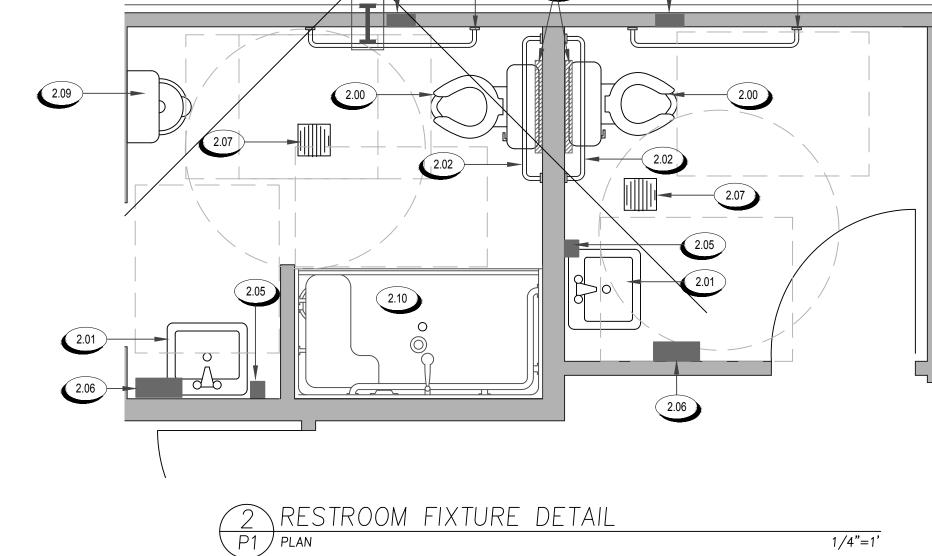
b. FOR BACK TO BACK INSTAL USE ONLY 45 DEGREE WYE c. K-8998 P-TRAP

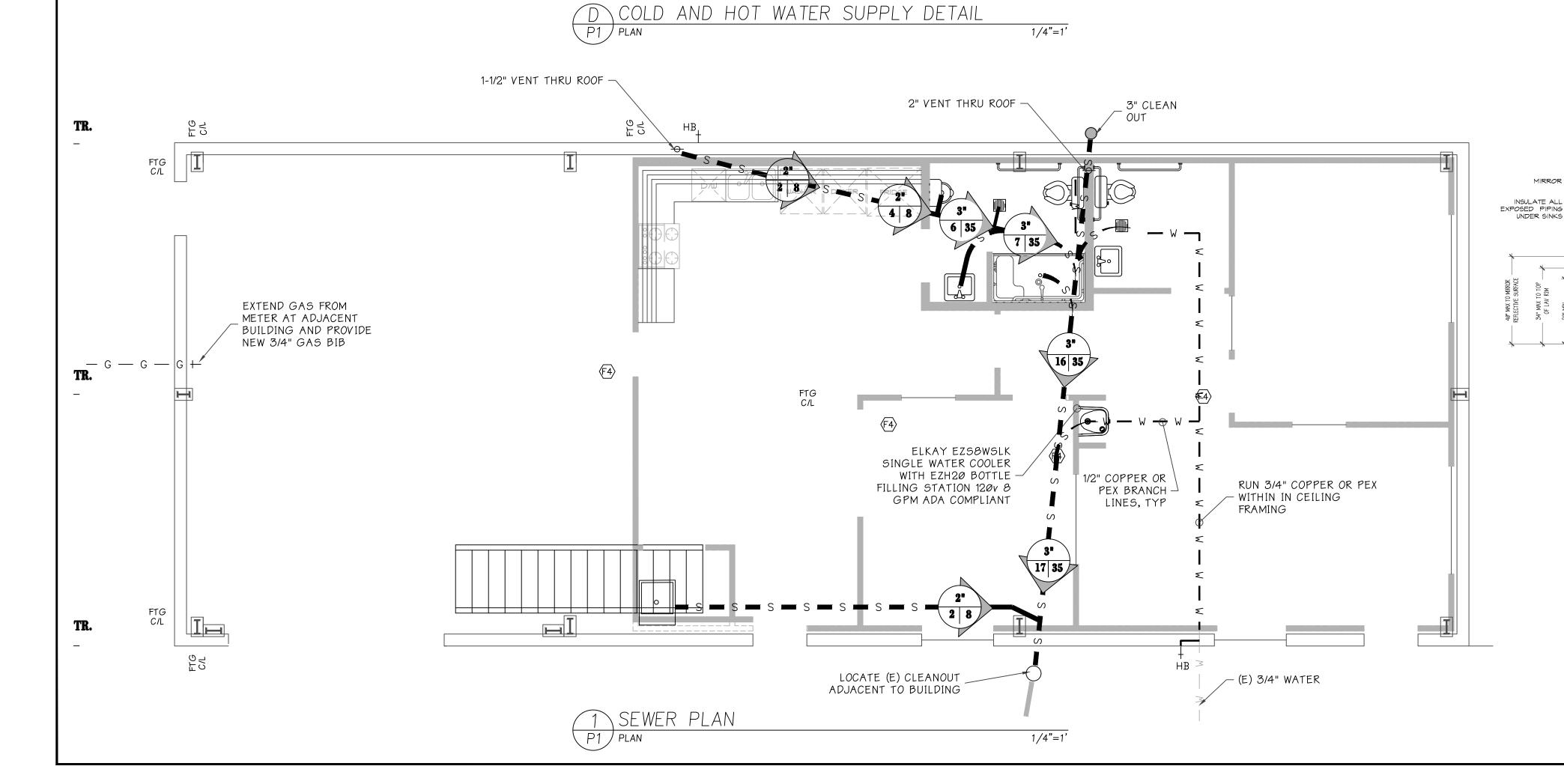
SURFACE MOUNTED TOILET SEAT COVER DISPENSER

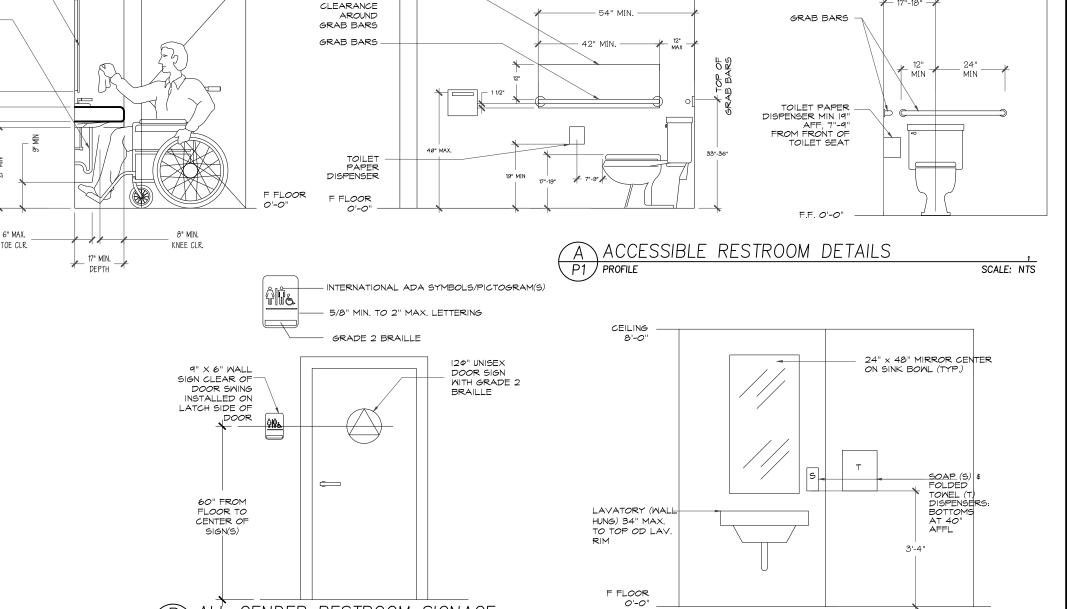
KOHLER URINAL WALL MOUNT

ACCESSIBLE WALK-IN SHOWER









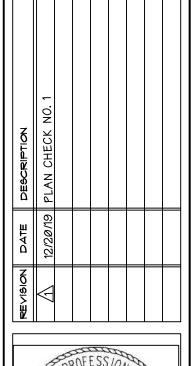
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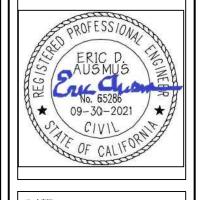
GENDER RESTROOM SIGNAGE



BUILDIN **MAINTENANCE**

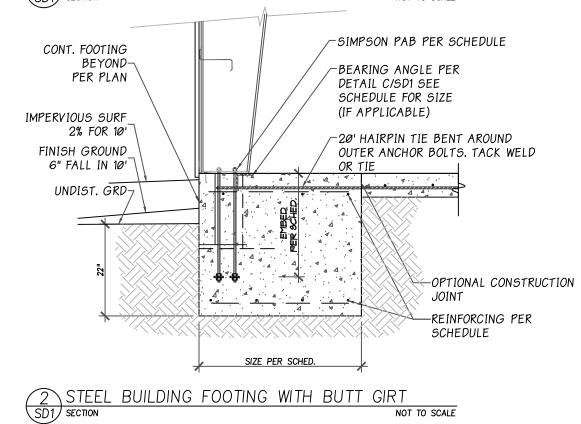
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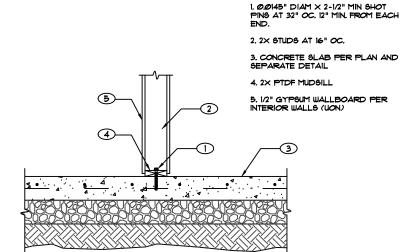


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1 STEEL BUILDING FOOTING WITH BYPASS GIRT NOT TO SCALE



1. @@145" DIAM × 2-1/2" MIN SHOT PINS AT 32" OC. 12" MIN FROM EA



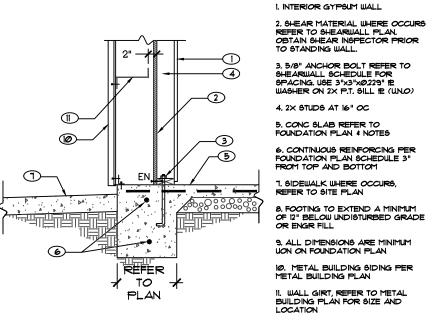
3 INTERIOR NON-BEARING PARTITION WALL

3 INTERIOR NON-BEARING PARTITION WALL
SD1 SECTION NAME OF THE PROPERTY OF THE NOT TO SCALE

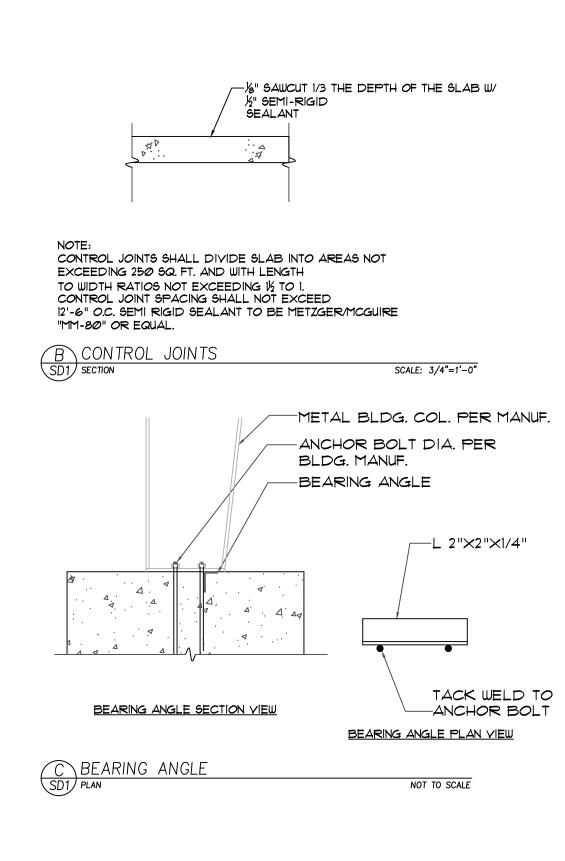
1. INTERIOR SHEAR MATERIAL 2. 2X STUDS AT 16" OC 3. ANCHOR BOLTS PER S/W SCH. USE 3"x3"x0.229" > WASHER ON 2X P.T. SILL PL (U.N.O) 4. CONC SLAB REFER TO FOUNDATION PLAN & SEPARATE DETAIL 5. CONTINUOUS SLAB REINFORCING PER SLAB 6. #4 REBAR CONTINUOUS ТОР & ВОТТОМ 7. FOOTING TO EXTEND A MINIMUM 12" BELOW UNDISTURBED GRADE OR ENGR

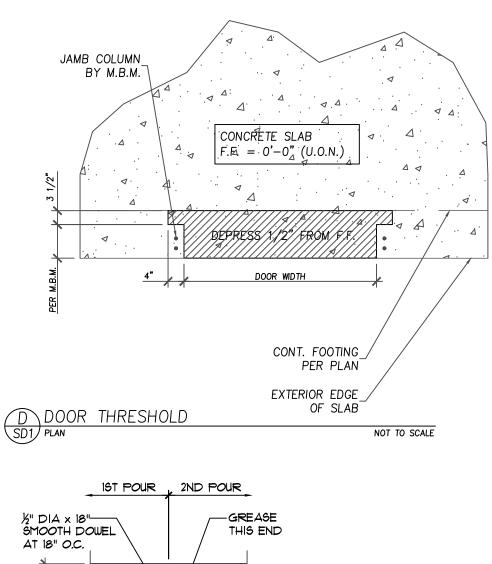
4 INTERIOR BEARING FTG AT WALL
SD1 SECTION

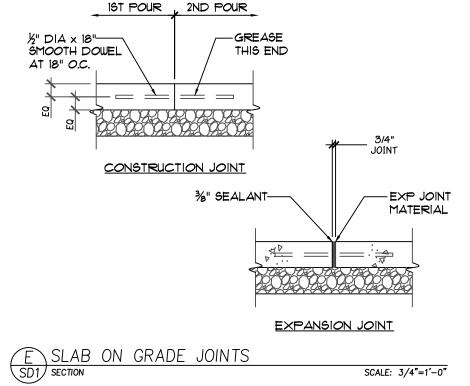
8. ALL DIMENSIONS ARE MINIMUM UON ON FOUNDATION PLAN
NOT TO SCALE

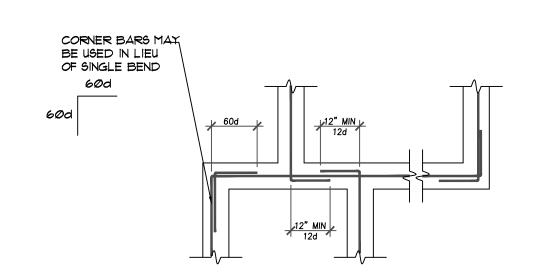


5 PERIMETER SLAB FOOTING AT METAIL BUILDING,
SD SECTION SCALE: NTS

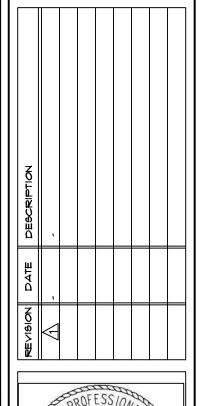












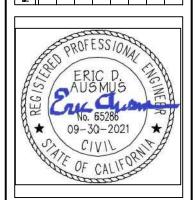
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DATE:
OCT 22, 2019

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DRAWN BY: EDA
CHECKED BY: EDA

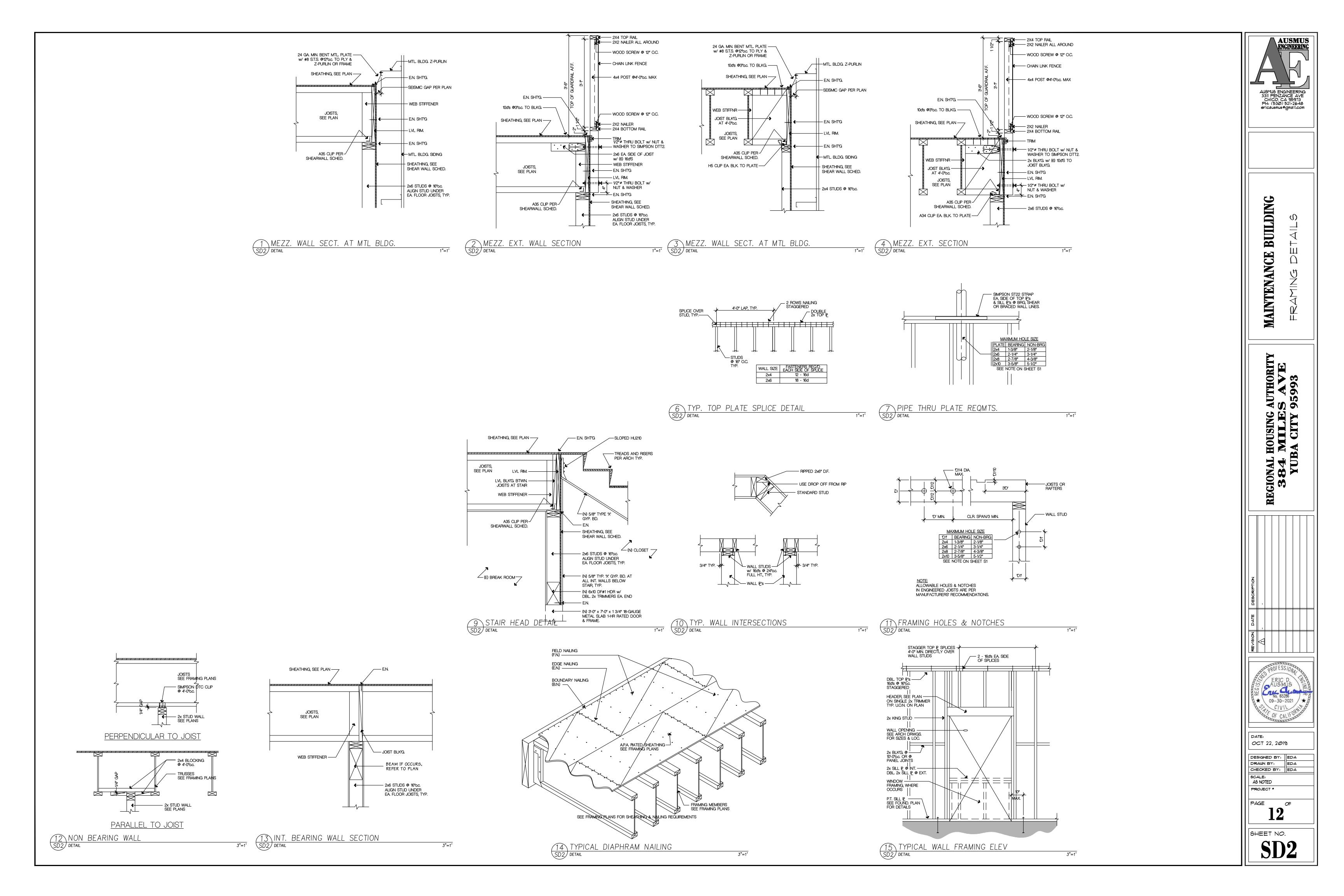
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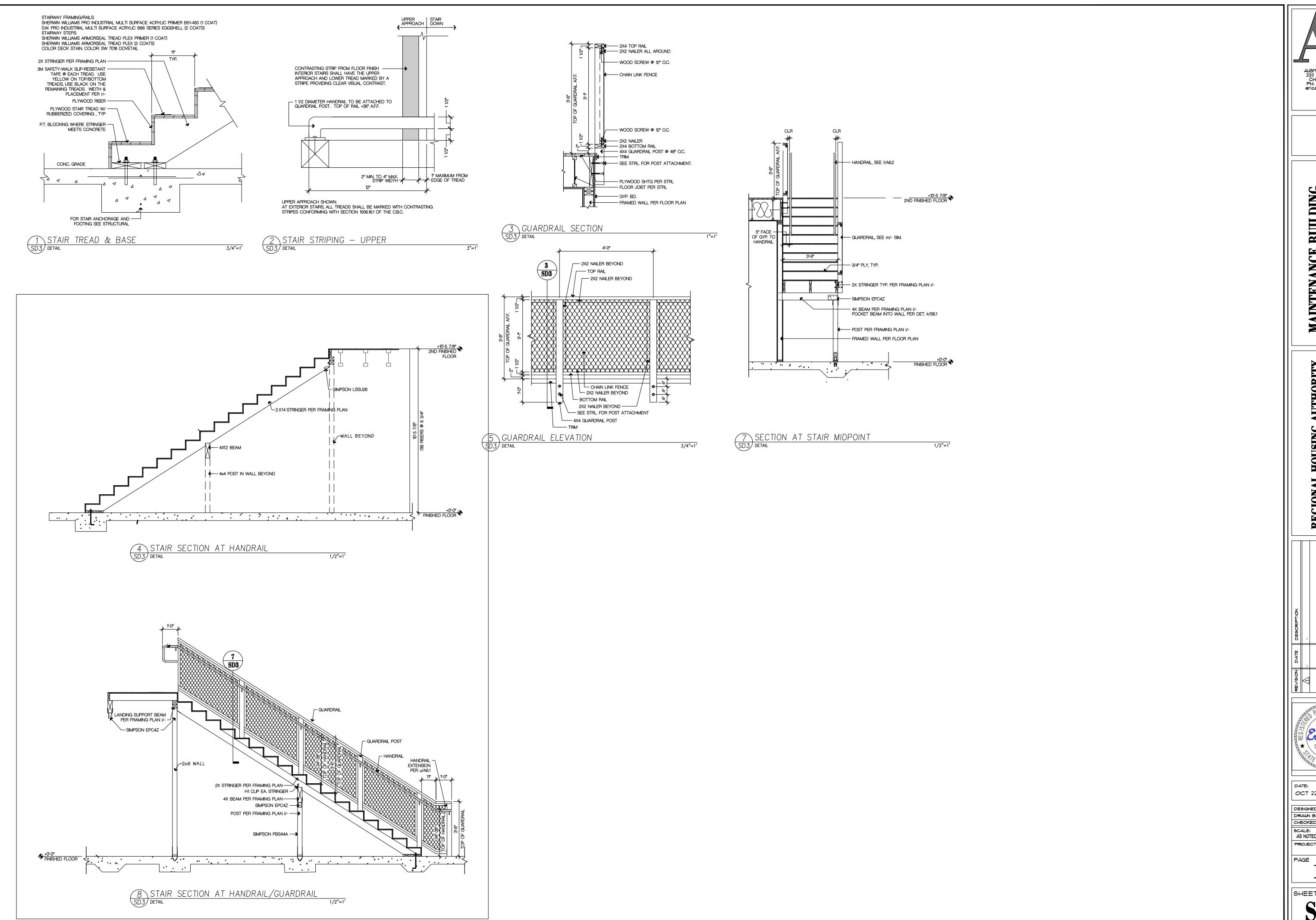
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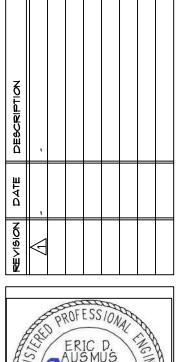
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BUILDING





OCT 22, 2019

DESIGNED BY: EDA DRAWN BY: EDA

CHECKED BY: EDA AS NOTED

PROJECT *

GENERAL

- 1) ALL CONSTRUCTION SHALL CONFORM TO:
- 2016 CALIFORNIA BUILDING CODE (C.B.C) - 2016 CALIFORNIA RESIDENTIAL CODE (C.R.C.)
- 2015 NATIONAL DESIGN SPECIFICATIONS (NDS)
- TMS 402-11/ACI 530-11/ ASCE 5-11
- ACI 318-14 AND REVISIONS - APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS

2) THE CONTRACTOR IS SOLELY RESPONSIBLE FOR BRACING AND SHORING ALL EXCAVATIONS, DEWATERING OF EXCAVATION FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, TEMPORARY AND EXISTING STRUCTURES, AND PARTIALLY COMPLETED PORTIONS OF THE WORK TO ASSURE THE SAFETY OF ANY PERSON COMING IN CONTACT WITH THE WORK.

3) ALL A.S.T.M. SPECIFICATIONS NOTED ON THE DRAWINGS SHALL BE AS AMENDED TO DATE.

4) STANDARD DETAILS AND GENERAL NOTES ARE TYPICAL AND SHALL APPLY UNLESS

OTHERWISE NOTED OR SHOWN. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE THE SAME NATURE AS SHOWN FOR SIMILAR CONDITION.

5) THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES AND SHALL VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND BE RESOLVED BEFORE PROCEEDING WITH THE WORK.

6) NO STRUCTURAL MEMBERS SHALL BE CUT, NOTCHED OR OTHERWISE PENETRATED UNLESS SPECIFICALLY APPROVED BY THE MANUFACTURER OF THE PRODUCT.

1) WHERE THESE GENERAL NOTES AND TYPICAL DETAILS ARE IN CONFLICT WITH ANY SPECIFICATIONS, THE ENGINEER SHALL BE NOTIFIED FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.

8) THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY FIELD REPRESENTATIVES OF THE ENGINEER DO NOT INCLUDE INSPECTIONS OF THE PROTECTIVE MEASURES OF THE PROCEDURES FOR SUCH METHODS OF CONSTRUCTION. ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES WHICH ARE PERFORMED AFTER COMPLETION OF CONSTRUCTION, ARE SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECS! THEY DO NOT GUARANTEE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISIONS OF CONSTRUCTION.

9) ALL ELEVATIONS ARE REFERENCED FROM TOP OF FINISH GROUND FLOOR ELEV. = 0'-0", U.O.N.

10) ANY TESTING OR INSPECTIONS REQUIRED BY BUILDING OFFICIALS OR THE PROJECT DRAWINGS OR SPECIFICATIONS SHALL BE PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY.

11) OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION.

12) CONTRACTOR SHALL READ AND BE FAMILIAR WITH ALL FACETS OF THE PLANS AND SPECIFICATIONS AND SHALL REQUEST CLARIFICATION AS REQUIRED BEFORE COMMENCING CONSTRUCTION.

13) CONTRACTOR SHALL BE RESPONSIBLE FOR ANY CONSTRUCTION WHICH IS IN DEVIATION FROM THESE PLANS.

14) CONTRACTOR IS RESPONSIBLE FOR THE CORRECT INSTALLATION OF ALL MANUFACTURED PRODUCTS, INCLUDING BUT NOT LIMITED TO OSB, TI-11, PARALLAMS AND MICROLLAMS. ALL INSTALLATIONS SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

15) UNLEGG CALLED OUT AS FUTURE, EXISTING OR NOT-IN-CONTRACT, EVERYTHING SHOWN ON THESE DRAWINGS SHALL BE PROVIDED AND INSTALLED AS PART OF THE WORK OF THE PROJECT.

16) ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON THE BEST INFORMATION CURRENTLY AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS. NO WARRANTY IS IMPLIED AS TO THEIR ACCURACY, CONTRACTOR IS TO FIELD VERIFY ALL CONDITIONS, SHOULD CONDITIONS BECOME APPARENT WHICH DIFFER FROM THE CONDITIONS SHOWN HEREIN THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT OR ENGINEER. THE ARCHITECT OR ENGINEER MAY THEN PREPARE ADDITIONAL DRAWINGS AS MAY BE NEEDED TO ACCOMMODATE THE NEW CONDITIONS.

FOUNDATION

CONCRETE.

PROFESSIONAL

1) SOILS INVESTIGATION OR GEOTECHNICAL REPORT: NONE PREPARED

2) FOUNDATIONS SHALL BEAR ON FIRM, UNDISTURBED FOUNDATION SOIL STRATA, OR ENGINEERED

3) THE DEPTHS OF BOTTOMS OF FOOTINGS AS SHOWN ON THESE DRAWINGS INDICATE THE ESTIMATED MINIMUM FOUNDATION DEPTHS.

4) THE BOTTOM OF ALL FOOTINGS SHALL BE LEVEL. CHANGES IN FOOTING ELEVATIONS SHALL BE MADE USING THE STEP FOOTING DETAIL ON THESE DRAWINGS.

5) CENTER FOOTINGS UNDER WALLS OR COLUMNS UNLESS OTHERWISE INDICATED ON THESE DRAWINGS.

6) ALL WATER & ORGANICS SHALL BE REMOVED FROM FOOTING EXCAVATION BEFORE PLACING

1) OWNER/DEVELOPER AND APPROPRIATE SUBCONTRACTOR(S) ARE RESPONSIBLE FOR

REVIEWING SITE SOIL PRIOR TO COMMENCING CONSTRUCTION. 9) SOIL FILL OVER 12" SHALL REQUIRE SPECIAL INSPECTION BY A QUALIFIED DESIGN

1) STRUCTURAL FRAMING SHALL BE DOUGLAS FIR - LARCH GRADED IN ACCORDANCE WITH THE STANDARD GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION. GRADES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON THE DRAWINGS.

4x MEMBERS NO. 2 6x & LARGER MEMBERS NO. 1 (MIN.) EXTERIOR WALL STUDS NO. 2 (MIN.) INTERIOR BEARING WALL STUDS NO. 2 (MIN.) INTERIOR NON-BEARING WALL STUDS STUD GRADE GLU-LAM BEAMS 24F-V4 DF/DF, U.O.N. PARALLAMS E= 2,000,000 PSI MICROLLAMS E= 1,900,000 PSI E= 1,700,000 PSI BLOCKING STUD GRADE

WOOD

2) MAXIMUM MOISTURE CONTENT SHALL NOT EXCEED 19% AT TIME OF INSTALLATION FOR SAUN LUMBER.

3) ALL BEAMS INTENDED FOR EXTERIOR USE SHALL BE TREATED OR PROTECTED FROM THE ELEMENTS.

4) AITC CERTIFICATES FOR GLULAM BEAMS SHALL BE PROVIDED TO THE BUILDING DEPARTMENT AND ENGINEER PRIOR TO FABRICATION.

5) WOOD MEMBERS SHALL BE CUT OR NOTCHED ONLY AS SHOWN ON THESE DRAWINGS.

6) SILL PLATES OR WOOD BEARING ON CONCRETE OR MASONRY SHALL BE PRESSURE PRESERVATIVE TREATED DOUGLAS FIR OR REDWOOD.

1) SOLID BLOCKING SHALL BE INSTALLED BETWEEN JOISTS OR RAFTERS AT THE TOP OF ALL BEARING AND SHEAR WALLS.

9) ALL PLYWOOD SHOWN ON THESE DRAWINGS SHALL BE C-D WITH EXTERIOR GLUE IN ACCORDANCE WITH U.S. PRODUCT STANDARD PSI-95. ALL PANELS SHALL BE MARKED WITH AN APA GRADE MARK WITH AN IDENTIFICATION INDEX ROOF PLY SHALL BE PANEL INDEX 24/0 U.O.N., FLOOR PLY SHALL BE PANEL INDEX 48/24 U.O.N. (PLYWOOD AT EXPOSED ROOF OVERHANGS MAY BE C-C WITH EXTERIOR GLUE.)

10) SHEATHING NAILING AT EDGE OF ANY FLOOR OR ROOF OPENING SHALL BE THE SAME AS BOUNDARY NAILING.

II) PARTIAL SHEETS OF SHEATHING CALLED OUT ON STRUCTURAL DRAWINGS SHALL HAVE A MINIMUM AREA OF 8 SQ. FT. WITH A MINIMUM DIMENSION OF 2 FEET.

12) EXCEPT WHERE MORE STRINGENT CONDITIONS ARE SHOWN ON THE DRAWINGS, WOOD CONSTRUCTION SHALL COMPLY WITH 2016 CRC, CONVENTIONAL CONSTRUCTION PROVISIONS, AS A

13) ENDS OF WOOD MEMBERS ENTERING MASONRY OR CONCRETE WALLS SHALL HAVE A 1/2" AIR SPACE AROUND TOP, END, AND SIDES, UNLESS WOOD IS TREATED WITH APPROVED PRESERVATIVE.

14) MAXIMUM MOISTURE CONTENT FOR GLU-LAM BEAMS SHALL NOT EXCEED 16%.

15) GLU-LAM BEAMS SHALL HAVE A.I.T.C. INSPECTION AND BEAR AN A.I.T.C. STAMP. A COPY OF THE A.I.T.C. INSPECTION CERTIFICATE SHALL BE SENT TO THE BUILDING DEPARTMENT.

16) MANUFACTURED LUMBER SHALL NOT BE NOTCHED, CUT OR DRILLED, EXCEPT AS SHOWN ON DRAWINGS, WITHOUT THE APPROVAL OF THE ENGINEER AND THE BUILDING DEPARTMENT.

17) MANUFACTURED LUMBER SHALL NOT BE EXPOSED TO THE WEATHER UNLESS PRESSURE TREATED OR OF A DURABLE SPECIES.

18) SUBMIT COMPLETE GLU-LAM BEAM SHOP DRAWINGS TO THE ENGINEER AND TO THE BUILDING DEPARTMENT FOR APPROVAL PRIOR TO FABRICATION.

19) SIMPLE SPAN GLU-LAM BEAMS SHALL BE COMBINATION 24F-V4 DF/DF, CANTILEVERED GLU-LAM BEAMS SHALL BE COMBINATION 24F-V8 D.F./D.F.

20) CANTILEVERED ENDS OF GLU-LAM BEAMS SHALL HAVE NO CAMBER

21) COAT NOTCHED OR DRILLED PRESSURE TREATED WOOD WITH COPPER NAPTHENATE CONTAINING 2% COPPER METAL AND APPLIED WITH REPEATED BRUSHING, DIPPING OR SOAKING.

FASTENERS

1) BOLTS FOR TIMBER CONNECTIONS SHALL BE ASTM A307 MACHINE BOLTS UNLESS OTHERWISE NOTED. BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION. BOLT HOLES SHALL BE 1/16 INCH LARGER THAN BOLT DIAMETER.

2) ALL BOLTS SHALL BE RETIGHTENED PRIOR TO THE APPLICATION OF SHEATHING, PLASTER, ETC. PROVIDED FOR ALL REINFORCING STEEL. 3) PROVIDE MALLEABLE IRON WASHERS OR EQUIVALENT CUT PLATE WASHERS UNDER NUTS AND

BOLT OR LAG SCREW HEADS WHICH BEAR ON WOOD. 4) WHEN REQUIRED NAILING TENDS TO SPLIT WOOD MEMBERS, NAIL HOLES SHALL BE PRE-BORED TO 15% OF THE NAIL DIAMETER.

5) NAILING NOT SPECIFICALLY INDICATED SHALL COMPLY WITH TABLE 2304.9.1 IN THE 2016 CRC.

6) ALL NAILS SHALL BE COMMON NAILS UNLESS NOTED OTHERWISE, NAILING SHALL BE PER THE

TABLE PROVIDED THIS SHEET, UNLESS NOTED OTHERWISE ON THE PLANS AND DETAILS. 8d COMMON = \emptyset .131" x 2 1/2"

10d COMMON = 0.148" x 3" $12d COMMON = \emptyset.148" \times 3 1/4"$ $16d COMMON = 0.162" \times 3 1/2"$

1) ALL PREFABRICATED CONNECTING HARDWARE SPECIFIED IS MANUFACTURED BY SIMPSON COMPANY, SAN LEANDRO, CALIFORNIA, UNLESS OTHERWISE NOTED. INSTALL IN ACCORDANCE WITH 10) WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185 STANDARDS FOR COLD THE MANUFACTURER'S INSTRUCTIONS FOR MAXIMUM RATED VALUES.

8) HOLES FOR LAG SCREW SHANKS SHALL BE BORED THE SAME DEPTH AND DIAMETER AS THE SHANK THE REMAINING DEPTH OF PENETRATION OF THE SCREW SHALL BE BORED TO 70% OF THE

9) ALL LAG SCREWS SHALL HAVE WASHERS WHICH HAVE FULL BEARING ON FLATTENED SURFACE OF THE WOOD MEMBER.

10) LAG SCREWS SHALL BE TURNED INTO HOLES WITH A WRENCH NOT DRIVEN IN WITH A HAMMER.

11) THE CLEARANCE HOLE FOR THE UNTHREADED PORTION OF THE SHANK SHALL BE THE SAME DIAMETER AS THE SHANK.

12) ALL COUNTER SUNK HOLES SHALL BE 1/8" DIA. GREATER THAN THE DIAMATER OF THE WASHER. COUNTER SINK HOLES SHALL NOT BE OVERDRILLED.

13) FASTENERS IN CONTACT WITH PRESERVE-TREATED WOOD SHALL BE OF HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER EXCEPTION: 1/2" DIAMETER OR GREATER STEEL BOLTS.

PROPRIETARY COMPONENTS

1) WHERE ELEMENTS OF CONSTRUCTION ARE CALLED OUT BY BRAND NAME IN THESE DRAWINGS, THE DESIGN IS BASED UPON STRUCTURAL VALUES PROVIDED BY THE MANUFACTURER. EQUIVALENT PRODUCTS OF OTHER MANUFACTURERS MAY BE SUBMITTED TO THE ENGINEER FOR SUBSTITUTION APPROVAL. SUBMITTALS MUST CONTAIN I.C.B.O. REPORT OR OTHER PROOF OF EQUIVALENT STRUCTURAL VALUES.

2) SHEET METAL HANGERS, STRAPS, HOLD-DOWNS, ANCHORS, ETC CALLED OUT AS "SIMPSON" REFER TO PRODUCTS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. ALL SUCH PRODUCTS SHALL BE INSTALLED WITH THE MAXIMUM NUMBER OF FASTENERS CALLED IN THE CURRENT SIMPSON CATALOG UNLESS CALLED OUT DIFFERENTLY IN THESE DRAWINGS.

3) UNLEGG CALLED OUT OTHERWISE ON DRAWINGS, CONCRETE EXPANSION ANCHORS SHALL BE "KWIK-BOLT II" BY HILTI FASTENING SYSTEMS, I.C.B.O. *4627.

4) UNLESS CALLED OUT OTHERWISE ON DRAWINGS, MASONRY EXPANSION ANCHORS SHALL BE "DYNABOLT SLEEVE ANCHOR" BY ITW RAMSET / RED HEAD, I.C.B.O. #1372.

5) UNLESS CALLED OUT OTHERWISE ON DRAWINGS, SHOT PINS (POWDER ACTUATED FASTENERS) SHALL BE AS MANUFACTURED BY HILTI, INC AS DESCRIBED IN I.C.B.O. REPORT #1290. PINS SHALL BE MINIMUM Ø.145" DIAMETER AND PENETRATE AT LEAST 1-1/4" INTO CONCRETE UNLESS NOTED OTHERWISE.

6) UNLESS CALLED OUT OTHERWISE ON DRAWINGS, EPOXY ANCHORS SHALL BE ALL THREAD RODS IN SIMPSON SET HIGH STRENGTH EPOXY, I.C.B.O. #ER5279.

SITE

1) CONTRACTOR SHALL RECOGNIZE AND NOTIFY ENGINEER IF CLAYS OR SOILS, NOT SUITABLE FOR CONSTRUCTION, ARE PRESENT. CONSTRUCTION SHALL NOT CONTINUE WITHOUT APPROVAL BY THE

2) THE CONTRACTOR AND/OR OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL PROPERTY LINES AND CORNERS AND SHALL ENSURE THAT CONSTRUCTION IS WITHIN ALL APPLICABLE SETBACKS AND EASEMENTS.

3) THE ENTIRE AREA TO BE COVERED BY STRUCTURES SHALL BE CLEARED AND GRUBBED TO REMOVE SURFACE VEGETATION AS REQUIRED.

4) ALL GRADING SHALL CONFORM TO LOCAL GRADING ORDINANCES. GRADE SURROUNDING ANY BUILDING STRUCTURES SHALL BE SLOPED A MINIMUM OF 5% AWAY FROM THE BUILDING PAD FOR A MINIMUM 10' IN ALL DIRECTIONS TO MAINTAIN SUFFICIENT DRAINAGE, WHERE PHYSICAL OBSTRUCTIONS OR LOT LINES PREVENT THIS, AN ALTERNATE METHOD SHALL BE USED TO DIVERT WATER USING A SWALE OR OTHER APPROVED METHOD.

5) THERE SHALL BE NO UTILITY TRENCHES WITHIN THE INFLUENCE ZONE OF THE FOUNDATION (A 45 DEGREE ANGLE PROJECTING FROM THE BOTTOM OF THE OUTER EDGE OF ANY FOOTING.)

STUD BORING & NOTCHING

1) BORED HOLES MAY NOT EXCEED 2.1" DIAMTER FOR 2X4 AND 3.3" FOR 2X6 STUDS AND SHALL BE 5/8" MIN FROM EDGES.

2) NOTCHES MAY NOT EXCEED 1.4" IN DEPTH FOR 2X4 AND 2.2" FOR 2X6 AND MAY NOT EXCEED 4" IN LENGTH. NOTCHING IS NOT ALLOWED ADJACENT TO BORING LOCATIONS.

1) BORED HOLES MAY NOT EXCEED 1.4" DIAMETER FOR 2X4 STUDS AND 22" FOR 2X6 STUDS

REINFORCING STEEL

1) REINFORCING STEEL SHALL BE DEFORMED CONFORMING TO ASTM A615.

2) WELDING OF REINFORCING STEEL SHALL BE PERFORMED ONLY WHERE INDICATED ON THE DRAWINGS AND SHALL BE IN COMPLIANCE WITH AWS DI.4 AND ASTM AGIS. PROVIDE WELDING PROCEDURE AND MILL TEST REPORTS FOR ALL REINFORCEMENT TO BE WELDED. ENGINEER SHALL APPROVE WELDING PROCEDURE AND MILL TEST REPORTS PRIOR TO EXECUTION OF WELDING.

3) LAP SPLICES FOR REINFORCING SHALL BE 40 BAR DIAMETERS OR 24" MINIMUM UNLESS SHOWN OTHERWISE ON THE DRAWINGS. WIRE BARS TOGETHER AT LAPS OR SPLICES. HOOKS SHALL BE CRC STANDARD HOOKS FIGURE R611.5.4(3) UNLESS SHOWN OTHERWISE.

4) REINFORCING SHALL BE FABRICATED AND PLACED ACCORDING TO CRSI. "MANUAL OF STANDARD PRACTICE".

5) ALL REINFORCING STEEL, DOWELS, ANCHOR BOLTS AND OTHER INSERTS SHALL BE WELL SECURED IN PLACE PRIOR TO CONCRETE OR GROUT POUR ADEQUATE SUPPORTS SHALL BE

6) THE FOLLOWING MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED UNLESS NOTED OTHERWISE:

CENTER OF SLAB SLABS ON GRADE CONCRETE BELOW GRADE, FORMED CONCRETE BELOW GRADE, UNFORMED (POURED AGAINST EARTH) CONCRETE EXPOSED TO WEATHER BEAMS AND COLUMNS PRIMARY REINFORCING BEAMS AND COLUMNS STIRRUPS AND TIES

1) ALL REINFORCING STEEL SHALL GRADE 40.

8) ALL BARS SHALL BE CLEANED OF LOOSE FLAKY RUST, GREASE OR OTHER MATERIALS THAT MAY IMPAIR BOND.

9) WELDED WIRE FABRIC TO BE ASTM A185. LAP 1 1/2 SPACES, 9" MINIMUM FOR STRUCTUAL SLABS.

DRAWN STEEL WIRE. SPLICES SHALL BE MADE SO THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRES PLUS TWO (2) INCHES. YIELD STRENGTH TO BE 60 KSI.

11) PLACE 20'-0" LENGTH OF REBAR AT ELECTRICAL SERVICE LOCATIONS, AND STUB UP REBAR ABOVE THE CONCRETE NEAR SERVICE METER.

12) ALL BENDS SHALL BE MADE COLD

13) SPACING OF REINFORCING SHALL BE CONSIDERED A MAXIMUM.

NORMAL WEIGHT CONCRETE

1) CONCRETE SHALL CONFORM TO THE FOLLOWING:

SLAB ON CONCRETE CLASS GRADE FOOTINGS MAXIMUM AGGREGATE SIZE 3/4" 3/4" MINIMUM SACKS PER YARD MAXIMUM WATER/CEMENT RATIO 0.54 060 35" - 5" 2.5" - 5" DAY COMPRESSIVE STRENGTH 2,500 PSI 2,500 PSI

2) ALL CONCRETE SHALL BE CONSOLIDATED BY MECHANICAL VIBRATORS.

3) ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CBC. AND ACI STANDARD 318, LATEST EDITION, OF THE AMERICAN CONCRETE INSTITUTE

4) CONCRETE AGGREGATE SHALL CONFORM TO ASTM C-33 AND SHALL BE WELL GRADED. SHRINKAGE CHARACTERISTICS SHALL BE LESS THAN -0.04%.

5) PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR TYPE II.

6) CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ASTM C-94 AND ASTM

1) ALL EMBEDDED ITEMS SHALL BE PLACED ACCURATELY AND SECURELY PRIOR TO BEGINNING CONCRETE PLACEMENT.

8) CONSTRUCTION JOINTS SHALL BE LOCATED SO AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. JOINTS SHALL BE ROUGHENED AND CLEANED PRIOR TO SUCCEEDING POUR FOR JOINTS IN ELEVATED SLABS, CONCRETE BEAMS, OR SHEARWALL FOOTINGS, CONTACT ENGINEER.

9) ALL GROUT SHALL BE NON-METALLIC, NON-SHRINK, HIGH STRENGTH GROUT AS APPROVED BY THE ENGINEER.

10) REINFORCING AND EMBEDMENT ITEMS SHALL BE FREE OF EXCESSIVE SCALE OR RUST, DIRT, GREASE, OIL OR ANY OTHER SUBSTANCE THAT WILL IMPAIR BOND WITH CONCRETE.

12) ALL REINFORCING BARS SHALL BE ACCURATELY AND SECURELY PLACED BEFORE POURING CONCRETE.

13) HOLDOWN LOCATIONS SHOWN ON THE FOUNDATION PLAN ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATIONS BASED ON THE LENGTH OF SHEAR WALLS, THE TYPE OF HOLDOWNS & THE MANUFACTURER'S SPECIFICATIONS.

14) REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL PIPES, CONDUITS, AND OTHER INSERTS EMBEDDED OR CAST WITH CONCRETE. CORING SHALL NOT BE ALLOWED WITHOUT THE ENGINEERS APPROVAL

16) ADMIXTURES TO BE USED SHALL BE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER. 17) CONCRETE SHALL BE CURED WHILE IN A MOIST CONDITION FOR AT LEAST THE

FIRST SEVEN (1) DAYS AFTER PLACEMENT. METHODS FOR ACCELERATED CURING SHALL HAVE PRIOR APPROVAL OF THE ENGINEER, AND SHALL MEET CONDITIONS OF ASTM C308.

18) REMOVE ALL DEBRIS FROM FORMS BEFORE POURING CONCRETE

19) NO WOOD SPREADERS OR WOOD STAKES ALLOWED IN CONCRETE.

20) MAXIMUM FREE FALL OF CONCRETE SHALL BE 8'-0".

21) CONCRETE SHALL BE READY-MIXED PER ASTM C-94.

22) WHEN COLD WEATHER CONDITIONS EXIST, PLACE CONCRETE IN COMPLIANCE WITH CRC. 1905.12

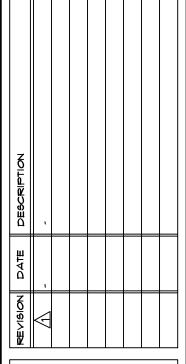
23) WHEN HOT WEATHER CONDITIONS EXIST, PLACE CONCRETE IN COMPLIANCE

WITH CRC. 1905.13. REINFORCING SHALL BE KEPT COOL DURING PLACEMENT OF

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OCT 22, 2019

DRAWN BY: EDA CHECKED BY: EDA AS NOTED

PROJECT * PAGE *O*F

DESIGNED BY: EDA

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (INCLUDING JANUARY 1, 2017 ERRATA)

CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations

shall only apply to the portions of the building being added or altered within the scope of the permitted work A code section will be designated by a banner to indicate where the code section only applies to newly constructed building [N] or to additions and alterations [A]. When the code section applies to both, no banner

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 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 seq. for definitions types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC) 301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

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 construction (or newly constructed) shall apply.

303.1.1 Tenant improvements. The provisions of this code shall apply only to the initial tenant or occupant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBRE	VIATION DEFINITIONS:
HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmenta quality of the site and respect the integrity of adjacent properties. SECTION 5.102 DEFINITIONS

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

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela 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 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following:

Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission veȟicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer 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 (H□V) car pool lane stickers issued by the Department of

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385,5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

area.

5.106.1 STORM WATER POLLUTION PREVENTION. Newly constructed projects and additions which disturb less than one acre of land shall prevent the pollution of storm water runoff from the construction activities through one or more of the

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMP). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP.

 Soil loss BMP that should be considered for each project include, but are not limited to, the

> Scheduling construction activity. Preservation of natural features, vegetation and soil. Drainage swales or lined ditches to control stormwater flow.

Mulching or hydroseeding to stabilize disturbed soils. Erosion control to protect slopes. Protection of storm drain inlets (gravel bags or catch basin

Perimeter sediment control (perimeter silt fence, fiber rolls).

Sediment trap or sediment basin to retain sediment on site. Stabilized construction exits.

Wind erosion control Other soil loss BMP acceptable to the enforcing agency.

2. Good housekeeping BMP to manage construction equipment materials and wastes that should be implementation as appropriate for each project include, but are not limited to,

> Material handling and waste management. Building materials stockpile management.

Management of washout areas (concrete, paints, stucco, etc.). Control of vehicle/equipment fueling to contractor's staging

Vehicle and equipment cleaning performed off site.

Spill prevention and control. Other housekeeping BMP acceptable to the enforcing agency. SIGNOFF

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.	TABLE 5.106.5.3.3	
For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2	TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
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	106.4.1.1 and 5.106.4.1.2; or meet the	0
applicable local ordinance, whichever is stricter.	10-25	1
5.106.4.1.1 Short-term bicycle parking. If the project or an addition or alteration is anticipated	36-50	2
to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being	51-75	4
added, with a minimum of one two-bike capacity rack. Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.	76-100	5
5.106.4.1.2 Long-term bicycle parking. For new buildings with 10 or more tenant-occupants or for	101-200	7
additions or alterations that add 10 or more tenant-occupants or for additions or alterations that add 10 or	201 AND DVCD	C*/ C

convenient from the street and shall meet one of the following: 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or

3. Lockable, permanently anchored bicycle lockers.

3. Lockable, permanently anchored bicycle lockers.

parking spaces being added, with a minimum of one space. Acceptable parking facilities shall be

more tenant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicle

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections

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. 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:

1. Covered, lockable enclosures with permanently anchored racks for bicycles: 2. Lockable bicycle rooms with permanently anchored racks; or

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, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING				
TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES			
0-9	0			
10-25	1			
25-50	3			
51-75	6			
76-100	8			
101-150	11			
151-200	16			
201 AND OVER	AT LEAST 8% OF TOTAL			

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping characters such that the lower edge of the last the following word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired H \square V considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Energy Commission (CEC) and as follows:

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 and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.

2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.

3. The raceway shall not be less than trade size 1." 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 suitable cabinet, box, enclosure or equivalent. 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. **5.106.5.3.2 Multiple charging space requirements. [N]** When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and

1 The type and location of the EVSE

specifications shall include, but are not limited to, the following:

2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and 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.

3. Plan design shall be based upon 40-ampere minimum branch circuits. 4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity

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

to simultaneously charge all required EVs at its full rated amperage.

charging and infrastructure is not feasible based upon one or more of the following conditions: 1. 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
36-50	2
51-75	4
76-100	5
101-200	7
201 AND □VER	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.

1. The California Department of Transportation adopts and publishes the California Manual on Uniform Traffic Control Devices (California MUTCD) to provide uniform standards and specifications for all official traffic control devices in California. Zero Emission Vehicle Signs and Pavement Markings can be found in the New Policies & Directives number 13-01. www.dot.ca.gov/hq/traffops/policy/13-01.pdf.

2. See Vehicle Code Section 22511 for EV charging spaces signage in off-street parking facilities and for use of EV charging spaces.

3. The Governor's Office of Planning and Research published a Zero-Emission Vehicle Community Readiness Guidebook which provides helpful information for local governments residents and businesses. www.opr.ca.gov/docs/ZEV_Guidebook.pdf.

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

1. The minimum requirements in the California Energy Code for Lighting Zones 1-4 as defined in Chapter 10 of the California Administrative Code: and

2. Backlight, Uplight and Glare (BUG) ratings as defined in IES TM-15-11: and 3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Luminaires that qualify as exceptions in Section 140.7 of the California Energy Code.

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, Alternate materials, designs and as permitted by Section 101.8

Note: [N] See also California Building Code, Chapter 12, Section 1205.6 for requirements for parking facilities and college campus lighting walkways.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

Water collection and disposal systems. trench drains.

Water retention gardens. Other water measures which keep surface water away from buildings and aid in groundwater recharge.

Exception: Additions and alterations not altering the drainage path.

TABLE 5.106.8 [N] AND GLARE (BUG) RA		ALLOWABLE	BACKLIGHT	, UPLIGHT
ALLOWABLE RATING	LIGHTING ZONE	LIGHTING ZONE	LIGHTING ZONE	LIGHTING ZONE 4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3				
Luminaire greater than 2 mounting heights (MH) from property line	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	B2	В3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	B1	B2	В3	В3
Luminaire back hemisphere is less than 0.5 MH from property line	В0	В0	B1	В2
MAXIMUM ALLOWABLE UPLIGHT RATING				
For area lighting 4	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	U1	U2	U3	U4
MAXIMUM ALLOWABLE GLARE RATING 5				
Luminaire greater than 2 MH from property line	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the California Administrative

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property 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 corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this

3. If the nearest property line is less than or equal to two mounting heights from the back 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 "all other outdoor lighting". 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.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. California Energy Code [DSA-SS]. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will

continue to adopt mandatory building standards. DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

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

SECTION 5.302 DEFINITIONS 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 the amount of water that needs to be

FOOTPRINTAREA[DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

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 operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

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 climatological parameters.

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 MWELD, or adopt a local ordinance at least as effective as the MWELD.

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,

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.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [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 Ordinance (MWELD).

SECTION 5.303 INDOOR WATER USE

500,000 Btu/h (147 kW).

not more than 2.0

not more than 1.8

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be

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 Wheberlsepashots, submeters for individual building tenants are unfeasible, for water supplied to the

Makeup water for cooling towers where flow through is Makeup water for evaporative coolers greater than 6 gpm Steam and hot water boilers with energy input more than

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

5.303.3.1 Water Closets. The effective flush volume of all water closets shall exceed 1.28 gallons per flush. Tank-type water closets shall be not exceed 1.28 gallons per 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

5.303.3.2 Urinals. The effective flush volume of urinals shall not exceed 0.5 gallons per flush. 5.303.3.3 Showerheads 5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of

gallons per minute at 80 psi. Showerheads shall

gallons per minute at 60 psi. Kitchen faucets may

be certified to the performance criteria of the U.S. EPA 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 valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be

allow only one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead.

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum 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

2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi. 5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8

temporarily increase the flow above the maximum rate, but not to exceed

gallons per minute/20 [rim space (inches) at 60 5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20

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

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash

be used to achieve reduction. 5.303.4 COMMERCIAL KITCHEN EQUIPMENT

5.303.3.4 Faucets and fountains.

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water 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

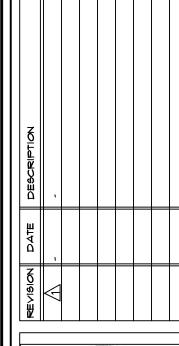
Note: This code section does not affect local jurisdiction authority to installation.

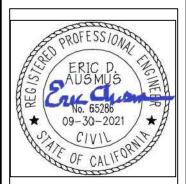
of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority

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.

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OCT 22, 2019

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DESIGNED BY: | EDA

PROJECT * PAGE

SIGNOFF

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations

Project program, including facility functions and hours of

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

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan

Systems to be commissioned. Plans to test systems and

Conditions under which the test shall be performed.

Commissioning process activities, schedules and responsibilities.

Measurable criteria for acceptable performance.

An explanation of the original design intent.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall

plans and specifications. Functional performance testing reports shall contain

information addressing each of the building components tested, the testing

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of

Site information, including facility description, history and

Basic operations and maintenance, including general site

A copy of verifications required by the enforcing agency or

System/equipment overview (what it is, what it does and with

Review of the record drawings on the system/equipment.

Review and demonstration of servicing/preventive maintenance.

Site equipment inventory and maintenance notes.

7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the

Review of the information in the Systems Manual.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities

5.410.4 TESTING AND ADJUSTING. Testing and adjusting of systems shall be required

for buildings less than 10,000 square feet or new systems to serve an addition

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

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance

accordance with the procedures defined by the Testing Adjusting and Balancing

5.410.4.4 Reporting. After completion of testing, adjusting and balancing,

provide a final report of testing signed by the individual responsible for

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or

representative with detailed operating and maintenance instructions and

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications

by the enforcing agency.

shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a

undertaken through the design and construction phases of the building

Training are required, including Occupational Safety and Health Act (OSHA)

system and system-to-system interface in accordance with the

methods utilized, and include any readings and adjustments made.

documented before the design phase of the

Energy efficiency goals.

Environmental and sustainability goals.

Equipment and systems expectations.

Indoor lighting system and controls.

the building project. The Basis of Design document shall

Water heating system.

Water reuse systems.

The commissioning plan shall include the following:

Commissioning goals.

requirements in California Code of Regulations (CCR),

to the building owner or representative. The

Site contact information

system shall be developed and documented in the commissioning

project shall be completed and provided to the owner or

recommended maintenance requirements, site events log.

Major systems.

Renewable energy systems.

General project information.

Functions to be tested.

Commissioning team information.

Indoor environmental quality requirements.

documentation shall include the following:

operation, and need for after hours

shall be completed to

components shall include:

Plans for the completion of

demonstrate the correct

other related regulations.

shall include the following:

operating procedures, basic

appropriate maintenance

representative.

with manufacturer's

new space-conditioning

performing these services.

other related

and reports required

system.

what other systems and/or

report and shall include the following:

or alteration subject to Section 303.1.

include at a minimum, as applicable to the project:

Water heating systems.

Water reuse systems.

HVAC systems and controls.

Renewable energy systems.

Landscape irrigation systems.

operated for normal use, the system shall be balanced in

copies of guaranties/warranties for each system. 🛛 & M

regulations.

Bureau Procedural Standards; Associated Air Balance

Standards or as approved by the enforcing agency.

Indoor and outdoor lighting and controls.

the building shall be

current requirements.

this code.

requirements of the building appropriate to its phase shall be

Building occupant and operation and maintenance (0&M) personnel

Heating, ventilation, air conditioning (HVAC) systems and controls.

Equipment and systems to be tested, including the extent of

document how the project will be commissioned.

installation and operation of each component,

completed within the systems manual and delivered

staff for each equipment type and/or

specifications and applicable standards on each

system serving a building or space is

Standards; the National Environmental Balancing

equipment it interfaces).

project begins. This

commissioning shall be included.

Title 8, Section 5142, and

SECTION 5.304 OUTDOOR WATER USE

5.304.1 SCOPE. The provisions of Section 5.304, Outdoor Water Use reference the mandatory Model Water Efficiency Landscape Ordinance (MWELO) contained within Chapter 2.7, Division 2, Title 23, California Code of

5.304.2 OUTDOOR WATER USE IN LANDSCAPE AREAS EQUAL TO OR GREATER THAN 500 SQUARE FEET. When water is used for outdoor irrigation for new construction projects with an aggregate landscape area equal to or greater than 500 square feet requiring a building or landscape permit, plan check or design review, one of the following

- 1. A local water efficient landscape ordinance that is, based on evidence in the record, at least as effective in conserving water as the updated model ordinance adopted by the Department of Water Resouces (DWR) per Government Code Section 65595(c).
- 2. 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.

5.304.3 OUTDOOR WATER USE IN REHABILITATED LANDSCAPE PROJECTS EQUAL TO OR GREATER THAN 2,500 SQUARE FEET. Rehabilitated landscape project with an aggregate landscape area equal to or greater than 2.500 square feet requiring a building or landscape permit, plan check, or design review shall comply with Section 5.304.2, Item 1 or 2.

5.304.4 OUTDOOR WATER USE IN LANDSCAPE AREAS OF 2,500 SQUARE FEET OR LESS. Any project with an aggregate area of 2,500 square feet of less may comply with the performance requirements of MWELO or conform to the prescriptive compliance measures contained in MWELO's Appendix D.

5.304.5 GRAYWATER OR RAINWATER USE IN LANDSCAPE AREAS. For projects using treated or untreated graywater or rainwater captured on site, any lot or parcet within the project that has less than 2.500 square feet of landscape and meets the lot or parcel's landscape water requirement (Estimate Total Water Use) entirely with treated or untreated graywater or through stored rainwater captured on site is subject only to Appendix D Section (5).

- 1. DWR's Model Water Efficient Landscape Ordinance, definitions and supporting documents are available at the following link: http://water.ca.gov/wateruseefficiency/landscapeordinance/
- 2. A water budget calculator is available at the following link: http://water.ca.gov/wateruseefficiency/landscapeordinance/
- 3. The MWELO prescriptive compliance measure Appendix D may be found at the following link: http://water.ca.gov/wateruseefficiency/landscapeordinance/ In addition, a copy of MWELO Appendix D may be found in Chapter 8 of this code.

5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS [DSA-SS]. 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 Resoucres 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 MWELO.
- **5.304.6.1** Newly constructed landscapes. [DSA-SS] New construction projects with an aggregate landscape area equal to or greater than 500 square feet.
- 5.304.6.2 Rehabilitated landscapes. [DSA-SS] Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

5.304.3 IRRIGATION DESIGN. In new nonresidential construction with at least 1,000 but not more than 2,500 square feet of cumulative landscaped area (the level at which the MWELD applies), install irrigation controllers and sensors which include the following criteria, and meet manufacturer's recommendations.

- 5.304.3.1 Irrigation controllers. Automatic inrigation system controllers installed at the time of final inspection shall comply with the following:
- Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants'needs as weather conditions change 2. Weather-based controllers without integral rain sensors or

communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.

Note: More information regarding irrigation controller function and DIVISION 5.4 WHATERIAL CONSERVATION AND RESOURCE

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 SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here

ADJUST. To regulate fluid flow rate and air patterns at the terminal

equipment, such as to reduce fan speed or adjust a damper.

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

TEST. A procedure to determine quantitative performance of a system or equipment

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 1403.2 (Weather Protection) and California Energy Code Section 150, (Mandatory Features and Devices), manufacturer's installation instructions or local ordinance, whichever is more stringent

5.407.2 MOISTURE CONTROL. Employ moisture control measures by the following

5.407.2.1 Sprinklers. Design and maintain landscape inrigation systems to prevent spray on structures.

foot traffic or wind-driven rain to prevent water intrusion into buildings as

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to 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
- The door is recessed at least 4 feet.
 - Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

whichever is more stringent.

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,

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

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. Determines if construction and demolition waste materials will be sorted on-site

(source-separated) or bulk mixed (single stream). 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 by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide ifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

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 loacl
- 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.

and markets.

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.

recvcleina facilities

Sample forms found in "A Guide to the California Green Building Standards Code located at www.bsc.ca.gov/Home/CALGreen.aspx may be used to (Nonresidential)" assist in documenting compliance with the waste management plan. Mixed construction and demolition debris processors can be located at the 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/DEAR-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

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or

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. 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

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 floor area.

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 Recycling Access Act of 1991 (Act).

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

5.410.2 COMMISSIONING.[N] 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. All occupancies other than I-occupancies and L-occupancies shall comply with the California Energy Code as prescribed in California Energy Code Section 120.8. For I-occupancies that are not regulated by <code>OSHPD</code> or for l-occupancies and L-occupancies that are not regulated by the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Commissioning requirements shall include:

- Owner's or Owner representative's project requirements. Basis of design.
- Commissioning measures shown in the construction documents. Commissioning plan.
- Functional performance testing. Documentation and training.
- Commissioning report.

Exceptions:

- Unconditioned warehouses of any size. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces unconditioned warehouses.
- Tenant improvements less than 10,000 square feet as described in Section 303.1.1. 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.

Informational Notes:

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

SECTION 5.501 GENERAL

usually on a continuous route.

DIVISION 5.5 ENVIRONMENTAL QUALITY

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors. **SECTION 5.502 DEFINITIONS**

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 (and are included here for referenc ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic

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 adjustments have been made.

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 320 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

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). Ine 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 and the electric vehicle.

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

access, but which may or may not be divided or have grade separations at

EXPRESSWAY. An arterial highway for through traffic which may have partial control of

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 reference compound with a GWP of one. 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,

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 \Box^3/g RDC).

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 allo a change of direction, with a radius 1.0 times the pipe diameter. 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

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.

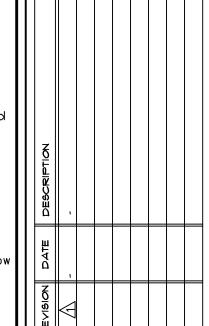
5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

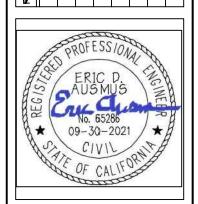
SECTION 5.504 POLLUTANT CONTROL

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 occupied during alteration, at the occupancy, or, if the building is conclusion of construction.

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

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OCT 22, 2019

DESIGNED BY: EDA DRAWN BY: EDA CHECKED BY: EDA

AS NOTED PROJECT *

PAGE *O*F

2016 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (INCLUDING JANUARY 1, 2017 ERRATA)

5.504.4.1 through 5.504.4.6. 5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the requirements of the following standards: the project shall meet 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 products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds

ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene),

except for aerosol products as specified in subsection 2, below.

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

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2. Aerosol adhesives, and smaller unit sizes of adhesives, and units of product, less packaging, sealant or caulking compounds (in 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 with Section

, or camorna code or regulations, rice ir, e	-0111161161119
TABLE 5.504.4.1 - ADHESIVE	
Less Water and Less Exempt Compo Liter	unds in Grams per
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
i	1

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.nrh.co.oov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT	
Less Water and Less Exempt Comp Liter	ounds in Grams per
SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
RDADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
DTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
DTHER	750

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

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 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 RDC 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 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 CDATINGS	50
NDNFLAT 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
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS:	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:	
CLEAR	730
DPAQUE	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

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THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE,

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

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

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

Field verification of on-site product containers 5.504.4.4 Carpet Systems. All carpet installed in the building interior shall meet

at least one of the testing and product requirements:

requirements of Table 5.504.4.1.

Carpet and Rug Institute's Green Label Plus Program. Compliant with the VOC-emission limits and testing requirements Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 2010 (also Known as CDPH Standard Method V1.1

or Specification 01350). NSF/ANSI 140 at the Gold level or higher Scientific Certifications Systems Sustainable Choice; or Compliant with the Collaborative for High Performance Schools Interpretation for EQ 7.0 and EQ California (CA-CHPS) Criteria 7.1 (formerly EQ 2.2) dated July 2012 and 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

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 formaldehvde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seg.). Those materials not exempted under the ATCM must meet the 5.504.4.5. specified emission limits, as shown in Table

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. 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 Association, the Australian AS/NZS 2269 or European 636 3S

standards. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LI	MITS ₁
MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PE	R MILLION
PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERB□ARD2	0.13
A MALUEO DI TUTO TARIE ARE REPUVER ERRY TUTOE OR	

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 93120.12.

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, resilient flooring shall meet at least one of the following:

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Certified under the Resilient Floor Covering Institute (RFCI) FloorScore Compliant with the VOC-emission limits and testing requirements specified in Department of Public Health's 2010 Standard Method the California for the Testing and Evaluation Chambers, Version 1.1, February 2010; Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7. and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High Performance Product 4. Products certified under UL GREENGUARD Gold (formerly the Greenguard

Program). 5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

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 8. MERV 8 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:

Children's & Schools

An ASHRAE 10% to 15% efficiency filter shall be permitted for an HVAC unit meeting the 2013 California Energy Code having 60,000 Btu/h or less capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at design air flow. Existing mechanical equipment.

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 1203 (Ventilation) and Chapter 14 (Exterior Walls). For

additional measures not applicable to low-rise residential occupancies, see Section 5.407.2 of **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 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

Dutdoor-Indoor Sound Transmission Class (DITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2. Exception: Buildings with few or no occupants or where occupants are not likely to be noise, as determined by the enforcement authority, such as

factories, stadiums, storage, enclosed parking structures and utility buildings. 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 than 40, with exterior windows of a minimum STC of 40 or DITC of 30 in the following

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

a. Lan or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan. b. 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 Lan 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 DITC 35), with exterior windows of a minimum STC of 40 (or DITC 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 appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

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

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior

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

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 controls, valve pilot lines and oil.

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

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

rupture or discharge of the relief valve.

designed to have seal caps.

maximize energy efficiency

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.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place. **5.508.2.2.2.2.1 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 operation.

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

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

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

charging. **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

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

than a +/- one pound pressure change from 300 psig, measured with the same gauge.

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.

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

recommendations

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.

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

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

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.

3. Successful completion of a third party apprentice training program in the appropriate trade.

4. 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.

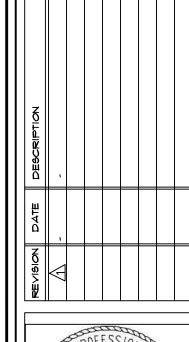
Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

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 section or identified applicable checklist.

BUILDING ANCI

6





OCT 22, 2019

DESIGNED BY: | EDA DRAWN BY: | EDA CHECKED BY: EDA

AS NOTED PROJECT *

PAGE *O*F

B. COMPLIANCE RESULTS FOR PE	RFORMANCE COMPONENTS (Annual	TDV Energy Use, kBtu/ft 2-yr)		§ 140.1				
BUILDING COMPLIES								
1. Energy Component	2. Standard Design (TDV)	3. Proposed Design (TDV)	4. Compliance Margin (TDV)	5. Percent Better than Standard				
Space Heating	39.78	86.02	-46.24	-116.29				
Space Cooling	75.68	98.81	-23.13	-30.6%				
Indoor Fans	79.11	47.30	31.81	40.29				
Heat Rejection		H		ä				
Pumps & Misc.				ä				
Domestic Hot Water	20.04	18.60	1.44	7.29				
Indoor Lighting	60.24	22.53	37.71	62.69				
COMPLIANCE TOTAL	274.85	273.26	1.59	0.69				
Receptacle	70.92	70.92	0.0	0.09				
Process	27.04	27.04	0.0	0.09				
Other Ltg		=	=	=				
Process Motors		#		:				
TOTAL	372.81	371.22	1.6	0.49				

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Compliar	nce Scope:	NewComplete		Input File Name:	Regional Housing Au	thority.cibd16x		
C. PRIOI	RITY PLAN CH	IECK/ INSPECTION ITEMS (in order of hi	ghest to lowest TDV energy savin	gs)	5			
1st		ing: Check lighting	1	oliance Margin By Energy (Component (from Tab	ole B column 4)		
2nd	Indoor Fans	: Check envelope and mechanical	Indoor	Lighting				
3rd	Domestic Ho	ot Water: Check mechanical	7	oor Fans				
4th	Heat Rejecti	Domestic Hot Water: Check mechanical Heat Rejection: Check envelope and mechanical Pumps & Misc.: Check mechanical Space Cooling: Check envelope and mechanical Space Heating: Check envelope and mechanical	Domestic H			•		
5th	Pumps & Misc.: Check mechanical			Rejection s & Misc.				
6th	Space Coolir	ng: Check envelope and mechanical	1 1	Cooling				
7th	Space Heati	Space He		Heating	Penalty	Energy Credit		
D. EXCE	PTIONAL CON	IDITIONS						
		molified Geometry Performance Modeling A	pproach which is not capable of mod	leling davlighting controls a	nd assumes the preso	criptive Secondary Daylit Control		
required.		PRESCRIPTIVE COMPLIANCE documentation	(form NRCC-LTI-02-E) for the require					
			• 2 100 7 10	ments of section 140.6(d) A	Automatic Daylighting	Controls in Secondary Daylit Zones is		
This proje		PRESCRIPTIVE COMPLIANCE documentation mestic Hot Water in the analysis. Please ver	• 2 100 7 10	ments of section 140.6(d) A	Automatic Daylighting	Controls in Secondary Daylit Zones is		
This proje	ect includes Do	PRESCRIPTIVE COMPLIANCE documentation omestic Hot Water in the analysis. Please ver	• 2 100 7 10	ments of section 140.6(d) A	Automatic Daylighting	Controls in Secondary Daylit Zones is		
This proje	ect includes Do	PRESCRIPTIVE COMPLIANCE documentation omestic Hot Water in the analysis. Please ver	• 2 100 7 10	ments of section 140.6(d) A	Automatic Daylighting	Controls in Secondary Daylit Zones is		
This proje E. HERS This Sect	ect includes Do	PRESCRIPTIVE COMPLIANCE documentation omestic Hot Water in the analysis. Please ver	• 2 100 7 10	ments of section 140.6(d) A	Automatic Daylighting	Controls in Secondary Daylit Zones is		

Project Address:	384 Miles Avenue Y	uba Cit	ty 95993		Calculation Date/Time:	10:03, Fri, Oct 25, 2019	
Compliance Scope:	NewComplete	NewComplete			Input File Name:	Regional Housing Authority.cibd16x	
C COMPLIANCE DAT	THE CEPTIFICATE OF	6014	DI LANCE CURANA	ADV		•	
G. COMPLIANCE PAI	TH & CERTIFICATE OF	California California		00000000000000000000000000000000000000		//hia//	
		**		onents use the performance or pre performance path, indicate the sh			
	FOR CO.	пропел	nts that utilize the	perjormance path, indicate the si	neet number that includes	manaatory notes on plans.	Lagation of Mandatany Notes on
Building Component		Com	pliance Path	Compliance Forms (required for	submittal)		Location of Mandatory Notes on Plans
		×	Performance	NRCC-PRF-ENV-DETAILS (section	of the NRCC-PRF-01-E)		
Envelope			Prescriptive	NRCC-ENV-01 / 02 / 03 / 04 / 05	/ 06-E		
			NA				
		\boxtimes	Performance	NRCC-PRF-MCH-DETAILS (section	n of the NRCC-PRF-01-E)		
Mechanical			Prescriptive	NRCC-MCH-01 / 02 / 03 / 04 / 05 / 06 / 07-E			
			NA				
			Performance	NRCC-PRF-PLB-DETAILS (section	of the NRCC-PRF-01-E)		
Domestic Hot Water			Prescriptive	NRCC-PLB-01-E]
			NA				
		\boxtimes	Performance	NRCC-PRF-LTI-DETAILS (section of	of the NRCC-PRF-01-E)		
Lighting (Indoor Condi	tioned)		Prescriptive	NRCC-LTI-01 / 02 / 03 / 04 / 05-E			
			NA				
Covered Process:			Performance	S2 (section of the NRCC-PRF-01-	E)		
Commercial Kitchens			Prescriptive	NRCC-PRC-01/03-E			
		×	NA				
Covered Process:			Performance	S3 (section of the NRCC-PRF-01-	E)		
Computer Rooms			Prescriptive	NRCC-PRC-01/04-E	<u></u>]
		⊠	NA				
Covered Process:			Performance	S4 (section of the NRCC-PRF-01-	E)		1
Laboratory Exhaust			Prescriptive	NRCC-PRC-01/09-E]
			NA				

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G. COMPLIANCE PATH	& CERTIFICATE OF COMPLIANCE SUMMARY				

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he follow	ing buildin	g components are only eligible relevant to th	for prescriptive compliance. Indicate which are e project.	The follo	wing buildin	g components may have mandatory which are relevant to the pr	a de la confessione de contractor de la company de la contractor de la con
Yes	NA	Prescriptive Requirement	Compliance Forms	Yes	NA	Mandatory Requirement	Compliance Forms
×		Lighting (Indoor Unconditioned) §140.6	NRCC-LTI-01 / 02 / 03 / 04 / 05-E		× ×	Commissioning: §120.8 Simple Systems Complex Systems	NRCC-CXR-01 / 02 / 03 / 05-E NRCC-CXR-01 / 02 / 04 / 05-E
	\boxtimes	Lighting (Outdoor) §140.7	NRCC-LTO-01 / 02 / 03-E		\boxtimes	Electrical: §130.5	NRCC-ELC-01-E
	\boxtimes	Lighting (Sign) §140.8	NRCC-LTS-01-E		\boxtimes	Solar Ready: §110.10	NRCC-SRA-01 / 02-E
	×	Solar Thermal Water Heating: §140.5	NRCC-STH-01-E		X	Covered Process: §120.6 Parking Garage Commercial Refrigeration Warehouse Refrigeration Compressed Air Process Boilers	NRCC-PRC-01-E NRCC-PRC-02-E NRCC-PRC-05-E NRCC-PRC-06/07/08-E NRCC-PRC-10-E NRCC-PRC-11-E

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Project Name:	Nonr	residential Building	NRCC-PRF-01-E	Page 5 of 19			
Project Address:	384 N	Miles Avenue Yuba City 95993	Calculation Date/Time:	10:03, Fri, Oct 25, 2019			
Compliance Scope:	New	Complete Input File Name: Regional Housing Authority.cibd:				16x	
Documentation Auth (Retain copies and ve	nor to in erify for	ATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICATE of verificates and to be submitted for the features to be the same are completed and signed to post in field for Field Inspector to land LTI Details Sections for Acceptance Tests and forms by equiptions.	e recognized for compliant overify).		Confi	rmed	
Building Component		Compliance Forms (required for submittal)			Pass	Fail	
Envelope		☑ NRCI-ENV-01-E - For all buildings					
Еписторе		☑ NRCA-ENV-02-F- NFRC label verification for fenestration					
		☑ NRCI-MCH-01-E - For all buildings with Mechanical Systems					
		☑ NRCA-MCH-02-A- Outdoor Air					
		NRCA-MCH-03-A − Constant Volume Single Zone HVAC					
		□ NRCA-MCH-04-H- Air Distribution Duct Leakage					
		□ NRCA-MCH-05-A- Air Economizer Controls					
		☐ NRCA-MCH-06-A- Demand Control Ventilation					
		☐ NRCA-MCH-07-A — Supply Fan Variable Flow Controls					
		□ NRCA-MCH-08-A- Valve Leakage Test					
		□ NRCA-MCH-09-A − Supply Water Temp Reset Controls					
Mechanical		☐ NRCA-MCH-10-A- Hydronic System Variable Flow Controls	□ NRCA-MCH-10-A- Hydronic System Variable Flow Controls				
		□ NRCA-MCH-11-A – Auto Demand Shed Controls					
		☐ NRCA-MCH-12-A- Packaged Direct Expansion Units					
		☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units					
		☐ NRCA-MCH-14-A- Distributed Energy Storage					
		□ NRCA-MCH-15-A – Thermal Energy Storage					
		☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls					
		□ NRCA-MCH-17-A – Condensate Water Temp Reset Controls					
		☐ NRCA-MCH-18-A- Energy Management Controls Systems					
		□ NRCV-MCH-04-H- Duct Leakage Test					

See Tables G. and H. in N	MCH and LTI Details Sections for Acceptance Tests and forms by equipment.		
Building Component	Compliance Forms (required for submittal)	Pass	Fail
Envalence	☑ NRCI-ENV-01-E - For all buildings		
Envelope	☑ NRCA-ENV-02-F- NFRC label verification for fenestration		
	☑ NRCI-MCH-01-E - For all buildings with Mechanical Systems		
	☑ NRCA-MCH-02-A- Outdoor Air		
	☐ NRCA-MCH-03-A – Constant Volume Single Zone HVAC		
	☐ NRCA-MCH-04-H- Air Distribution Duct Leakage		
	□ NRCA-MCH-05-A- Air Economizer Controls		
	☐ NRCA-MCH-06-A- Demand Control Ventilation		
	☐ NRCA-MCH-07-A — Supply Fan Variable Flow Controls		
	□ NRCA-MCH-08-A- Valve Leakage Test		
	□ NRCA-MCH-09-A – Supply Water Temp Reset Controls		
Mechanical	□ NRCA-MCH-10-A- Hydronic System Variable Flow Controls		
	□ NRCA-MCH-11-A – Auto Demand Shed Controls		
	☐ NRCA-MCH-12-A- Packaged Direct Expansion Units		
	☐ NRCA-MCH-13-A- Air Handling Units and Zone Terminal Units		
	☐ NRCA-MCH-14-A- Distributed Energy Storage		
	☐ NRCA-MCH-15-A — Thermal Energy Storage		
	☐ NRCA-MCH-16-A- Supply Air Temp Reset Controls		
	□ NRCA-MCH-17-A – Condensate Water Temp Reset Controls		
	□ NRCA-MCH-18-A- Energy Management Controls Systems		

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Compliance Scope:	NewComplete	Complete Input File Name: Regional Housing Authority.cibd				
Documentation Auth (Retain copies and ve	STALLATION, CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFION TO INDICATE Which Certificates must be submitted for the features to rify forms are completed and signed to post in field for Field Inspector MCH and LTI Details Sections for Acceptance Tests and forms by equ	be recognized for compliar to verify).	13) (5)	Confi	rmed	
Building Component	Compliance Forms (required for submittal)			Pass	Fail	
	☐ NRCI-PRC-01-E Covered Processes					
	☐ NRCA-PRC-01-F- Compressed Air Systems	□ NRCA-PRC-01-F- Compressed Air Systems				
	☐ NRCA-PRC-02-F- Kitchen Exhaust					
	□ NRCA-PRC-03-F- Garage Exhaust					
Covered Process	☐ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor	□ NRCA-PRC-04-F- Refrigerated Warehouse- Evaporator Fan Motor Controls				
	□ NRCA-PRC-05-F- Refrigerated Warehouse- Evaporative Condenser Controls					
	☐ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser	□ NRCA-PRC-06-F- Refrigerated Warehouse- Air Cooled Condenser Controls				
	☐ NRCA-PRC-07F- Refrigerated Warehouse- Variable Speed Compr	essor				

☐ NRCA-PRC-08-F- Electrical Resistance Underslab Heating System

1.	Total Conditioned Floor Area	1,298 ft ²	5.	Number of Floors Above Grade	1	Confirmed	
2.	Total Unconditioned Floor Area	718 ft ²	6.	Number of Floors Below Grade	0		
3.	Addition Conditioned Floor Area	0 ft ²				Pass	_
4.	Addition Unconditioned Floor Area	0 ft ²	ft²				Fail
7. Opaque Surfaces & Orientation		8. Total Gross Surface Area		9. Total Fenestration Area	10. Window to Wall Ratio		
North W	/all		255 ft ²	48 ft ²	18.9%		
East Wa	II		415 ft ²	24 ft ²	05.8%		
South W	/all		0 ft ²	0 ft ²	00.0%		
West Wa	all		421 ft ²	0 ft ²	00.0%		
	Total		1,091 ft ²	72 ft²	06.6%		
Roof			1,298 ft ²	0 ft ²	00.0%		

Project Name:	Nonreside	ential Building						NRCC-PRF-01-E	Page 8 of 19)			
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Compliance Scope:	NewComp	plete						Input File Name:	Regional Ho	ousing Aut	hority.cibd:	16x	
I. FENESTRATION ASSE	MBLY SUI	MMARY					§ 110.6	Confirmed					

1,	2.	3.	4.	5.	6.	7.	8.	9.	Ę.			
Fenestration Assembly Name / Tag or I.D.	Fenestration Type / Product Type / Frame Type	Certification Method ¹	Assembly Method	Area ft²	Overall U-factor	Overall SHGC	Overall VT	Status ²	ass	Fail		
Dual Pane Aluminum Low-E	VerticalFenestration OperableWindow N/A	NFRC Rated	Manufactured	72	0.46	0.22	0.50	N				
ly installed fenestration shall have a certified NFRC Label Certificate or use the CEC default tables found in Table 110.6-A and Table 110.6-B. Center of Glass (COG) values are for the glass-only, determined by the manufacturer, and are shown for ease iffication. Site-built fenestration values are calculated per Nonresidential Appendix NA6 and are used in the analysis.												

² Status: N - New, A - Altered, E - Existing

Taking compliance credit for fenestration shading devices? (if "Yes", see NRCC-PRF-ENV-DETAILS for more information)

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583

K. OPAQUE SURFACE ASSEMBLY SUMMARY						§ 120.7/ § 140.3		Confi	rmed
1.	2.	3.	4.	5.	6.	7.	8.	1	
Surface Name	Surface Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value	U-Factor / F-Factor / C-Factor	Status ¹	Pass	Fail
R-19 Wall7	ExteriorWall	1091	Wood	19	NA	U-Factor: 0.072	N		
R-30 Roof Attic14	Roof	1298	Wood	30	NA	U-Factor: 0.038	N		
Slab On Grade16	UndergroundFloor	2016	NA	0	NA	F-Factor: 0.730	N		
R-0 Wall50	ExteriorWall	711	Wood	0	NA	U-Factor: 0.537	N		
R-0 Roof Attic57	Roof	718	Wood	0	NA	U-Factor: 0.293	N		
COLOR N. N. A. Albard F. Eddin									

atus: N - New, A – Altered, E – Existing	

ROOFING PRODUCT SUMMARY §									
1.	2.	3.	4.	5.	6.	7.			
Product Type	Product Density (lb/ft²)	Aged Solar Reflectance	Thermal Emittance	SRI	Cool Roof Credit	Roofing P Descrip		Pass	Fail
R-30 Roof Attic14	5.813	0.08	0.75	NA	No	No NA			
R-0 Roof Attic57	5.813	0.08	0.75	NA	No	NA			

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Compliance Scope:	NewComplete	Input File Name:	Regional Housing Authority.cibd16x
H CERTIFICATE OF IN	STALLATION CERTIFICATE OF ACCEPTANCE & CERTIFICATE OF VERIFICA	TION SUMMARY (NIPCI)	NDCA/NDCV) —

(Retain copies and ver	or to indicate which Certificates must be submitted for the features to be recognized for compliance rify forms are completed and signed to post in field for Field Inspector to verify). In MCH and LTI Details Sections for Acceptance Tests and forms by equipment.	Confi	rmed
Building Component	Compliance Forms (required for submittal)	Pass	Fail
	☑ NRCI-PLB-01-E - For all buildings with Plumbing Systems		
	☐ NRCI-PLB-02-E - required on central systems in high-rise residential, hotel/motel application.		
	□ NRCI-PLB-03-E - Single dwelling unit systems in high-rise residential, hotel/motel application.		
Dhambin	☐ NRCI-PLB-21-E - HERS verified central systems in high-rise residential, hotel/motel application.		
Plumbing	□ NRCI-PLB-22-E - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.		
	☐ NRCV-PLB-21-H- HERS verified central systems in high-rise residential, hotel/motel application.		
	□ NRCV-PLB-22-H - HERS verified single dwelling unit systems in high-rise residential, hotel/motel application.		
	□ NRCI-STH-01-E - Any solar water heating		
	☑ NRCI-LTI-01-E - For all buildings		
	□ NRCI-LTI-02-E - Lighting control system, or for an Energy Management Control System (EMCS)		
	NRCI-LTI-03-E - Line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting		
	□ NRCI-LTI-04-E - Two interlocked systems serving an auditorium, a convention center, a conference room, or a theater		
Indoor Lighting	☐ NRCI-LTI-05-E - Lighting Control Credit Power Adjustment Factor (PAF)		
	☐ NRCI-LTI-06-E - Additional wattage installed in a video conferencing studio		
	NRCA-LTI-02-A - Occupancy sensors and automatic time switch controls.		
	■ NRCA-LTI-03-A - Automatic daylighting controls		
	□ NRCA-LTI-04-A - Demand responsive lighting controls		
	☑ NRCI-LTO-01-E – Outdoor Lighting		
Outdoor Lighting	☑ NRCI-LTO-02-E- EMCS Lighting Control System		
	■ NRCA-LTO-02-A - Outdoor Lighting Control		
Sign Lighting	□ NRCI-LTS-01-E – Sign Lighting		
Electrical	☐ NRCI-ELC-01-E - Electrical Power Distribution		
Photovoltaic	□ NRCI-SPV-01-E Photovoltaic Systems		

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance Report Version: NRCC-PRF-01-E-06262019-5583

Report Generated at: 2019-10-25 10:03:34

Nonresidential Building NRCC-PRF-01-E Page 9 of 19 Project Name: 384 Miles Avenue Yuba City 95993 Calculation Date/Time: 10:03, Fri, Oct 25, 2019 Input File Name: Regional Housing Authority.cibd16x NewComplete Compliance Scope:

M. HVAC SYSTE	1. HVAC SYSTEM SUMMARY (see NRCC-PRF-MCH-DETAILS for more information)												
	Dry System Equipment ¹ (Fan & Economizer info included below in Table N)											Confi	irmed
1.	2.	3.	4.	5.	6.	7.	8.	9	•	10.	11.		
Equip Name	Equip Type	System Type (Simple ² or	Qty	Total Heating Output	Supp Heat Source (Y/N)	Supp Heat Output	Total Cooling Output	Effici	ency	Acceptance Testing Required? (Y/N)	Status ⁵	Pass	Fail
		Complex 3)		(kBtu/h)		(kBtuh)	(kBtu/h)	Cooling	Heating	4	ű		
HVAC System	SZHP (Split ³ Phase)	Simple	1	62	No	0	38	SEER-14.00 / EER-11.00	HSPF-8.50	Yes	N		

¹ Dry System Equipment includes furnaces, air handling units, heat pumps, etc. ² Simple Systems must complete NRCC-CXR-03-E commissioning design review form ³ Complex Systems must complete NRCC-CXR-04-E commissioning design review form

⁴ A summary of which acceptance tests are applicable is provided in NRCC-PRF-MCH-DETAILS ⁵ Status: N - New, A – Altered, E – Existing

	Wet System Equipment ¹												Confi	rme
12.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.		
Equip Name	Equip Type	Qty	Vol (gal)	Rated Capacity (kBtu/h)	Efficiency	Standby Loss	Tank Ext. R Value	Qty	GPM	НР	VSD (Y/N)	Status ²	Pass	Fail
50 Gallon Electric2	Storage	1	50.00	15	EF: 0.93	SBLF: NA	NA		NA		No	N		
				·										

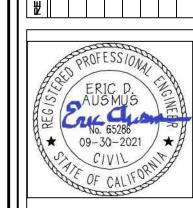
 1 Wet System Equipment includes boilers, chillers, cooling towers, water heaters, etc. ² Status: N - New, A - Altered, E - Existing

Discrepancy between modeled and designed equipment sizing? (if "Yes", see Table F. "Additional Remarks" for an explanation)

N. ECONOMIZE	R & FAN S	YSTEMS S	SUMMAR	Y ¹	11							§ 140.4	Confi	irmed
1.	2.				3.					4.		5.		
	Outside Air			Sup	ply Fan				Ret	urn Fan		Economizer Type	Pass	Fail
Equip Name	CFM	CFM	НР	ВНР	TSP (inch WC)	Control	СҒМ	НР	ВНР	TSP (inch WC)	Control	(if present)	SS	=
HVAC System	287	1250	0.500	0.500	1.27	ConstantVolume	NA	NA	NA	NA	NA	NoEconomizer		

BUILDING MAINTENANCE

AUTHORITY S AVE 95993



OCT 22, 2019 DESIGNED BY: EDA DRAWN BY: EDA CHECKED BY: EDA

AS NOTED PROJECT * PAGE

SHEET NO.

Report Generated at: 2019-10-25 10:03:34

No

CA Building Energy E	fficiency Standa	rds- 201	6 Nonr	esidential (Complia	nce	Report Ve	ersion: NR	CC-PRF-01-	E-0626	52019-558	3		Report Gene	erated at: 2	2019-10-2	25 10:03	3:34
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DOCUMENTATION													§	10-103				
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Phone: 707-237-695 RESPONSIBLE PER		RATION	STATE	MENT														
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City/State/Zip: Chico								Declar Title:	ation State	ment T	Гуре:		In	cense #:				
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Address: 3311 Penza City/State/Zip: Chico Phone: 530-521-264 CA Building Energy El Project Name: Project Address: Compliance Scope: B. ZONAL SYSTEM 1. System ID 4-Support-Trm 3-Kitchenette-Trm 2-Office-Trm 1-Reception-Trm 1-Reception-Trm C. EXHAUST FAN S This Section Does No D. DHW EQUIPME 1. DHW Name 50 Gallon Electric2 E. MULTI-FAMILY Of This Section Does No F. SOLAR HOT WA	Nonresid 384 Miles NewCom Noncontr Noncontr Uncontr	AL UNI Type olled olled olled olled olled	T SUM 3. Qty 1 1 1 1 1 Storag	IMARY Rated ((kB) Heating NA NA NA NA NA NA NA NA NA N	CC-PLB-C4.	Econ g 1 1 1 1 1 1 1 1 1	5. NA NA NA A A A A A A A A A	Declar Title: Zac 4 3-k 1-	ration States CCC-PRF-01- NRCC-PR Calculati Input File 6. Support Citchenette 2-Office Reception 7. fficiency	E-0626 EF-01-E on Date e Name Ins R- (In	Design 221 415 358 255 8. Tank culation evalue nt/Ext)	Page 16 c 10:03, Fri Regional 7. irflow (cfn Min. NA NA NA NA SA Standby Fraction	of 19 i, Oct 25 Housing n) Min Ratio 0.00 0.00 0.00	Report General Report	8. Fan Cycles NA NA NA Tank Lc or Am Cond	ECM Motor	§ 140 Conf	0.4 firmed all rmed
Address: 3311 Penza City/State/Zip: Chico Phone: 530-521-264 CA Building Energy El Project Name: Project Address: Compliance Scope: B. ZONAL SYSTEM 1. System ID 4-Support-Trm 3-Kitchenette-Trm 2-Office-Trm 1-Reception-Trm 1-Reception-Trm C. EXHAUST FAN S This Section Does No D. DHW EQUIPME 1. DHW Name 50 Gallon Electric2 E. MULTI-FAMILY Of This Section Does No F. SOLAR HOT WA	Nonresid 384 Miles NewCom Noncontr Noncontr Uncontr	AL UNI Type olled olled olled olled olled	T SUM 3. Qty 1 1 1 1 1 Storag	IMARY Rated ((kB) Heating NA NA NA NA NA NA NA NA NA N	CC-PLB-C4.	Econ g 1 1 1 1 1 1 1 1 1	5. NA NA NA A A A A A A A A A	Declar Title: Zac 4 3-k 1-	ration States CCC-PRF-01- NRCC-PR Calculati Input File 6. Support Citchenette 2-Office Reception 7. fficiency	E-0626 EF-01-E on Date e Name Ins R- (In	Design 221 415 358 255 8. Tank culation evalue nt/Ext)	Page 16 c 10:03, Fri Regional 7. irflow (cfn Min. NA NA NA NA SA Standby Fraction	of 19 i, Oct 25 Housing n) Min Ratio 0.00 0.00 0.00	Report General Report	8. Fan Cycles NA NA NA Tank Lc or Am Cond	ECM Motor	§ 140 Conf	0.4 firmed all rmed
Address: 3311 Penza City/State/Zip: Chico Phone: 530-521-264 CA Building Energy El Project Name: Project Address: Compliance Scope: B. ZONAL SYSTEM 1. System ID 4-Support-Trm 3-Kitchenette-Trm 2-Office-Trm 1-Reception-Trm 1-Reception-Trm C. EXHAUST FAN S This Section Does No D. DHW EQUIPME 1. DHW Name 50 Gallon Electric2 E. MULTI-FAMILY Of This Section Does No F. SOLAR HOT WA	Nonresid 384 Miles NewCom Noncontr Noncontr Uncontr	AL UNI Type olled olled olled olled olled	T SUM 3. Qty 1 1 1 1 1 Storag	IMARY Rated ((kB) Heating NA NA NA NA NA NA NA NA NA N	CC-PLB-C4.	Econ g 1 1 1 1 1 1 1 1 1	5. NA NA NA A A A A A A A A A	Declar Title: Zac 4 3-k 1-	ration States CCC-PRF-01- NRCC-PR Calculati Input File 6. Support Citchenette 2-Office Reception 7. fficiency	E-0626 EF-01-E on Date e Name Ins R- (In	Design 221 415 358 255 8. Tank culation evalue nt/Ext)	Page 16 c 10:03, Fri Regional 7. irflow (cfn Min. NA NA NA NA SA Standby Fraction	of 19 i, Oct 25 Housing n) Min Ratio 0.00 0.00 0.00	Report General Report	8. Fan Cycles NA NA NA Tank Lc or Am Cond	ECM Motor	§ 140 Conf	0.4 firmed all rmed

NRCC-PRF-01-E

Input File Name:

Dry System Distribution

Insulation R-Value

Equip Type

SZHP

Service Hot Water, Primary Only

Sealing Required per

140.4(I)

No

Duct Leakage and Duct Leakage will be

verified per NA1 and

NA2

No

Calculation Date/Time: 10:03, Fri, Oct 25, 2019

Regional Housing Authority.cibd16x

Controls No DCV Controls No Supply Air Temp. Control

No Optimum Start No Evaporative Cooler No Heat Recovery

Fixed Temperature Control, No DDC

§ 120.4/ § 140.4(I)

8.0 Unconditioned N

No Heat Recovery

§ 120.2 Confirmed

Confirmed

Nonresidential Building

Project Address:

Compliance Scope: NewComplete

Equip Name

HVAC System

DHW1 - SHW

P. SYSTEM DISTRIBUTION SUMMARY

Equip Name

HVAC System

O. EQUIPMENT CONTROLS

384 Miles Avenue Yuba City 95993

Equip Type

SZHP

 $^{
m 1}$ Mechanical ventilation calculations and exhaust fans are included in the NRCC-PRF-MCH-DETAILS section

Compliance Scope:	NewComplete			Input File Name	e:	Regional Housing A	uthority.cibd16x					
Q. INDOOR CONDITIONED LIGHTING GENERAL INFO (see NRCC-PRF-LTI-DETAILS for more info) ³ § 14												
								Confi	irmed			
1.	2.	3.		4.		5	i.					
Occupancy Type ¹	Conditioned Floor Area ² (ft ²)	Installed Lighting Power (Watts)	ntrol Credits atts)		Additional (Cus	tom) Allowance	Pass	Fail				
					Area Ca	tegory Footnotes (Watts)	Tailored Method (Watts)					
Waiting Area	265	108		0		0	0					
Office (250 square feet in floor area or less)	372	180		0		0	0					
Kitchenette or Residential Kitchen	431	180		0		0	0					
Corridors, Restrooms, Stai and Support Areas	rs, 230	60		0		0	0					
Building Tota	ls: 1,298	528		0		0	0					
1 See Table 140.6-C 2 See NRCC-LTI-01-E for unconditioned spaces 3 Lighting information for existing spaces modeled is not included in the table												

NRCC-PRF-01-E

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Report Generated at: 2019-10-25 10:03:34

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*Lighting information for existing	spaces modeled is not included in the table										
R. INDOOR CONDITIONED LIGHTING SCHEDULE (Adapted from NRCC-LTI-01-E) ¹											
	udes all permanent installed lighting in ortable lighting over 0.3 w/ft² in	Installed Watts (Conditioned)									
	Complete Luminaire Description (i.e.,		How Wattage	is Determined	Total Number						
Name or Item Tag	3-lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	CEC Default from NA8	According to §130.0(c)	Luminaires	Installed Watts	Pass	Fail			
А	Ceiling Mounted LED Light Fixture	18	No	Yes	28	504					
В	Fan Light	12	No	Yes	2	24					
¹ If lighting power densities were	used in the compliance model Building Departments	will need to check prescriptive for	rms for Luminaire Sched	ule details.							

S1. COVERED PROCESS SUMMARY – ENCLOSED PARKING GARAGES	§ 140.9
This Section Does Not Apply	·

Report Version: NRCC-PRF-01-E-06262019-5583

Project Name:	Nonresidential Building	NRCC-PRF-01-E	Page 14 of 19
Project Address:	384 Miles Avenue Yuba City 95993	Calculation Date/Time:	10:03, Fri, Oct 25, 2019
Compliance Scope:	NewComplete	Input File Name:	Regional Housing Authority.cibd16x

NRCC-PRF-ENV-DETAILS -SECTION START-

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

Project Name:

Project Address:

Nonresidential Building

384 Miles Avenue Yuba City 95993

PAQUE SURFACE ASS	SEMBLY DETAILS			Conf	irmed	
1.	2.	3.	4.	20	77	
Surface Name	Surface Type	Description of Assembly Layers	Notes			
R-19 Wall7	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 5.5in., R-19 Gypsum Board - 1/2 in.				
R-30 Roof Attic14	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-30 Gypsum Board - 1/2 in.				
Slab On Grade16	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0				
R-0 Wall50	ExteriorWall	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.				
R-0 Roof Attic57	Roof	Asphalt shingles - 1/4 in. Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Wood framed roof, 24in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.				

		Wood framed roof, 24in. OC, 3.5in., R-0 Gypsum Board - 1/2 in.								
B. OVERHANG DETAILS (Adapted from NRCC-ENV-02-E)										
This Section Does Not Apply	This Section Does Not Apply									

Report Version: NRCC-PRF-01-E-06262019-5583

NRCC-PRF-01-E

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Calculation Date/Time: 10:03, Fri, Oct 25, 2019

Declaration o	. MECHANICAL HVAC ACCEPTANCE TESTS & FORMS (Adapted from 2016-NRCC-MCH-01-E) eclaration of Required Acceptance Certificates (NRCA) — Acceptance Certificates that may be submitted. (Retain copies and verify forms are completed and signed to post in field for Field spector to verify).													§ RA4	(
Test Descri		MCH-02A	MCH-03A	MCH-04A	MCH-05A	MCH-06A	MCH-07A	MCH-08A	MCH-09A	MCH-10A	MCH-11A	MCH-12A	MCH-13A	MCH-14A	MCH-15A	MCH-16A	MCH-17A	MCH-18A	Confi	rmed
Equipment Requiring Testing or Verification	# of units	Outdoor Air	Single Zone Unitary	Air Dist. Ducts	Economizer Controls	DCV	Supply Fan VAV	Valve leakage	Supply Water Temp. Reset	Hyd. Variable Flow Control	Auto Demand Shed Control	FDD for DX Units	Auto FDD for Air & Zone	Dist. Energy Storage DX AC	TES Systems	Supply Air Temp. Reset	Condenser Water Reset Controls	ECMS	Pass	Fail

	H. EVAPORATIVE COOLER SUMMARY
ŀ	This Section Does Not Apply

Project Name:

NRCC-PRF-LTI-DETAILS -SECTION START-

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

Nonresidential Building 384 Miles Avenue Yuba City 95993

A. INDOOR CONDITIONED LIGHTING CONTROL CREDITS (Adapted from NRCC-LTI-02-E) § 140.6						
This Section Does Not Apply						
B. INDOOR CONDITIONED LIGHTING MANDATORY LIGHTING CONTROLS (Adapted from NRCC-LTI-02-E)	§ 130.1					
The second of th						

\$130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive	
3350.2[c) - Mariad drea Cortolo, 3350.0[c) - Maria Esta, 3350.2[c) - Mariadol y Dayright, 3350.2[c) - Deriado Hesporiate	
C. TAILORED METHOD CONDITIONED LIGHTING POWER ALLOWANCE SUMMARY AND CHECKLIST (Adapted from NRCC-LTI-04-E)	§ 140.6
General lighting power (see Table D)	0
General lighting power from special function areas (see Table E)	NA

General lighting power from special function areas (see Table E)			NA
CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-06262019-5583	Report Generated	at: 2019-10-25 10:03:34

Project Name:	Nonresidential Building	NRCC-PRF-01-E	Page 12 of 19				
Project Address:	384 Miles Avenue Yuba City 95993	Calculation Date/Time:	10:03, Fri, Oct 25, 2019	2019			
Compliance Scope:	NewComplete	Input File Name:	Regional Housing Authority.c	cibd16x			
S2. COVERED PROCE	SS SUMMARY – COMMERCIAL KITCHENS		8	§ 140.9			
This Section Does Not /	Apply		•				
	SS SUMMARY – COMPUTER ROOMS		§ 140.9				
S3. COVERED PROCE	33 SUMMARY - COMPUTER ROUMS		- 1- INTERNATION				
S3. COVERED PROCE This Section Does Not A							

I Thermal Zone Name I		Load Hour Limit for mal Zone	Prop	oosed Cooling Unmet Load H	lours	Heatin	g Unmet Load Hour Limit for Thermal Zone	Proposed Heating Unme	t Load Hours
1-Reception		150		1800.5			150	1369	
2-Office		150		1182			150	1731.5	
U. ENERGY USE SUMMARY Energy Component		Standard Design Si (MWh)	te	Proposed Design Site (MWh)		argin (Wh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating		Ħ		4.1		16.8		=	
Space Cooling		2.2		2.7		-0.5			.==.
Indoor Fans		4.6		2.8		1.8			

Energy Component	(MWh)	(MWh)	(MWh)	(MBtu)	(MBtu)	(MBtu)
Space Heating	H	4.1	=	16.8		
Space Cooling	2.2	2.7	-0.5			(==)
Indoor Fans	4.6	2.8	1.8			1
Heat Rejection		1				()
Pumps & Misc.						
Domestic Hot Water		1.1	22	9.4	22	
Indoor Lighting	3.2	1.2	2.0			1557
COMPLIANCE TOTAL	10.0	11.9	-1.9	26.2	0.0	
Receptacle	3.3	3.3	0.0	3.1	3.1	0.0
Process	1.7	1.7	0.0			1
Other Ltg						::
Process Motors						7==7
TOTAL	15.0	16.9	-1.9	29.3	3.1	26.2

Report Version: NRCC-PRF-01-E-06262019-5583

1.		2.	3.	4.	5.	6.	7.		
C. OPAQUE DOOR SI	IMMARY							Confi	rme
Compliance Scope:	NewComple	e		Input File Name:	Regional Housir	g Authority.cibd	16x		
Project Address:	384 Miles Av	enue Yuba City 95993		Calculation Date/Time:	10:03, Fri, Oct 2	5, 2019			
Project Name:	Nonresident	al Building		NRCC-PRF-01-E	Page 15 of 19				

C. OPAQUE DOOR SUMMARY	1						Confi	rmed
1.	2.	3.	4.	5.	6.	7.		
Opaque Door Assembly Name / Tag or I.D.	Door Type	Certification Method	Operation	Area	Overall U-factor	Status ¹	Pass	Fail
Metal Door10	MetalInsulated Single Layer Sectional Door	DefaultPerformance	NonSwinging	60	0.179	N		
Roll Up Door52	Metal Uninsulated Single Layer Rollup Door	DefaultPerformance	NonSwinging	144	1.450	N		

NRCC-PRF-MCH-DETAILS -SECTION START-

¹ Status: N - New, A - Altered, E - Existing

This Section Does Not Apply

This Section Does Not Apply

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

T. UNMET LOAD HOURS

. MECHANICAL V	ENTILATION		HEAT (Add		1 2016-NF	RCC-MCH-	-03-Е)) VENITI	LATION	/s 120 1	1				Confi	rmed I
CONDITIONED ZONE NAME	HEATING/COOLING SYSTEM ID	DESIGN PRIMARY AIR FLOW (CFM)	DESIGN PRIMARY MINIMUM AIR FLOW (CFM)	MINIMUM PRIMARY AIR FLOW FRACTION	MAXIMUM HEATING AIR FLOW (CFM)	MAXIMUM HEATING AIR FLOW FRACTION	DDC CONTROL (Y/N)	VENT SYSTEM ID	CONDITIONED AREA (ft2)	MIN. VENT PER AREA (CFM/ft2)	DESIG	MIN. VENT PER PERSON (CFM/person)	REQ'D VEN	DESIGN VENT AIR FLOW (CFM)	TRANSFER AIRFLOW (CFM)	DCV (Y/N)	Operable Window Interlock § 140.4(n) (Y/N)	Pass	Fail
1-Reception	HVAC System	255	NA	0.00	NA	NA	N	HVAC System	265	0.50	8.83	15.00	133	133	NA	N	N		
2-Office	HVAC System	358	NA	0.00	NA	NA	N	HVAC System	372	0.15	1.86	30.00	56	56	NA	N	N		
3-Kitchenette	HVAC System	415	NA	0.00	NA	NA	N	HVAC System	431	0.15	1.08	60.00	65	65	NA	N	NA		
4-Support	HVAC System	221	NA	0.00	NA	NA	N	HVAC System	230	0.15	1.15	30.00	35	35	NA	N	NA		
								TOTAL	1,298		12.92		289	289	NA				

CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-06262019-5583	Report Generated at: 2019-10-25 10:03:34

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Project Address:	384 Miles Avenue Yuba City 95993		Calculati	on Date/Time:	10:03, Fri, Oct 25, 2019	<u>.</u>		
Compliance Scope:	NewComplete		Input Fil	e Name:	Regional Housing Author	ority.cibd16x		
C. TAILORED METHO	DD CONDITIONED LIGHTING POWER ALLOW	ANCE SUMMARY A	ND CHECKLIST (Ad	apted from NR	CC-LTI-04-E)		§ 140	6
Additional "use it or lo	se it" (See Table G)							0
						Total watts		0
D. GENERAL LIGHTII	NG POWER (Adapted from NRCC-LTI-04-E)							§ 140.6-D
This Section Does Not	Apply							
E. GENERAL LIGHTIN	IG FROM SPECIAL FUNCTION AREAS (Adapte	ed from NRCC-LTI-0	4-E)					§ 140.6(c) 3H
Room Number	Primary Function Area	Illuminance Value	Room Cavity Ratio	Allowed LPD	Floor Area (ft ²)	Allowed V	Natts	Confirme
Nooni Number	rimary runction Area	I /ILIV\	(Table C)	Allowed LPD	Floor Area (Tt-)	Allowed v	valis	

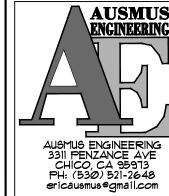
E. GENERAL LIC	GHTING PROIN SPECIAL FUNCTION AREAS (Adapt	ed Irom NRCC-LIT-)4-E)				9 140.60	C) on
Room Number	r Primary Function Area	Illuminance Value	Room Cavity Ratio	Allowed LPD	Floor Area (ft ²)	Allowed Watts	Confi	irmed
Room Number	Filliary Function Area	(LUX)	(Table G)	Allowed LFD	Floor Area (It)	Allowed Watts	Pass	Fail
NA	NA	NA	NA	NA	NA	NA		
Note: Tailored Method	f for Special Function Areas is not currently implemented	•					•	
E ROOM CAVIT	TV RATIO (Adapted from NRCC-LTI-04-F)							

		Rectangul	ar Spaces				
Room Number	Task/Activity Description	Room Length (ft)	Room Width (ft)	Room Cavity Height (ft)	RCR	Conf	irme Fa
NA	NA	NA	NA	NA	NA		

Note: All applicable spaces are listed under the Nor	n-Rectangular Spaces table					
G. ADDITIONAL "USE IT OR LOSE I	T" (Adapted from NRCC-LTI-04-E)					
1.	2.	3.	4.		Confi	rmed
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise	Allowed Watts	Pass	Fail
0	0	0	0	0		

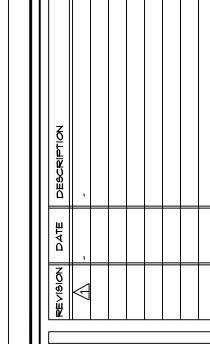
	4	100.00	* *	*** ********		
Wall Display	Combined Floor Display and Task Lighting	Combined Ornamental and Special Effects Lighting	Very Valuable Merchandise	Allowed Watts	Pass	Fail
0	0	0	0	0		
<u> </u>						
5. Wall Display				<u>-</u> !!!		

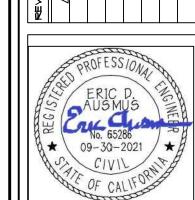
CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance	Report Version: NRCC-PRF-01-E-06262019-5583	Report Generated at: 2019-10-25 10:03:34



BUILDING MAINTENANCE

Report Generated at: 2019-10-25 10:03:34





OCT 22, 2019 DESIGNED BY: EDA DRAWN BY: EDA CHECKED BY: EDA

SCALE: AS NOTED PROJECT * PAGE *o*f

Project Name:	Nonresidential Building		NRCC-PRF-01-E	Page 19 of 19			
Project Address:	384 Miles Avenue Yuba City 9	5993	Calculation Date	e/Time: 10:03, Fri, Oct	25, 2019		
Compliance Scope:	NewComplete		Input File Name	: Regional Housi	ng Authority.cibd16x		
i. Floor Display and Ta	sk Lighting						
This Section Does Not Ap	ply						
7. Combined Ornamer	ital and Special Effects Ligh	ting					
This Section Does Not Ap	ply						
8. Very Valuable Merc	handisa						
This Section Does Not Ap	ylg						
This Section Does Not Ap							
*		TESTS & FORMS (Adapted from	n NRCC-LTI-01-E and NRCC-L	TO-01-E)		§ 13	30.4
H. INDOOR & OUTDOO	OR LIGHTING ACCEPTANCE) –Acceptance Certificates that m		1900	ms are completed and signed		
H. INDOOR & OUTDOO Declaration of Required	DR LIGHTING ACCEPTANCE Acceptance Certificates (NRCA) –Acceptance Certificates that m	ust be verified in the field. (Re	1900	ns are completed and signed Outdoor	to post in f	
H. INDOOR & OUTDOO Declaration of Required	OR LIGHTING ACCEPTANCE) –Acceptance Certificates that m	ust be verified in the field. (Re Inspector to verify).	1900		to post in 1	field fo
H. INDOOR & OUTDOO Declaration of Required	DR LIGHTING ACCEPTANCE Acceptance Certificates (NRCA Description) –Acceptance Certificates that m Field	ust be verified in the field. (Re Inspector to verify). Indoor	tain copies and verify for	Outdoor	to post in f	field fo
H. INDOOR & OUTDOO Declaration of Required Test Equipment Requiring	DR LIGHTING ACCEPTANCE Acceptance Certificates (NRCA Description	NRCA-LTI-02-A Occ Sensors / Auto Time	ust be verified in the field. (Re Inspector to verify). Indoor NRCA-LTI-03-A	tain copies and verify for NRCA-LTI-04-A	Outdoor NRCA-LTO-02-A	to post in 1	field fo
H. INDOOR & OUTDOO Declaration of Required Test Equipment Requiring Testing or Verification	DR LIGHTING ACCEPTANCE Acceptance Certificates (NRCA Description # of units	NRCA-LTI-02-A Occ Sensors / Auto Time Switch	ust be verified in the field. (Re Inspector to verify). Indoor NRCA-LTI-03-A Auto Daylight	NRCA-LTI-04-A Demand Responsive	Outdoor NRCA-LTO-02-A Outdoor Controls	Confi	field fo
H. INDOOR & OUTDOO Declaration of Required Test Equipment Requiring Testing or Verification Occupant Sensors	DR LIGHTING ACCEPTANCE Acceptance Certificates (NRCA Description # of units 2 0	NRCA-LTI-02-A Occ Sensors / Auto Time Switch	Inspector to verify). Indoor NRCA-LTI-03-A Auto Daylight	NRCA-LTI-04-A Demand Responsive	Outdoor NRCA-LTO-02-A Outdoor Controls	Confi	field fo
H. INDOOR & OUTDOO Declaration of Required Test Equipment Requiring Testing or Verification Occupant Sensors Automatic Time Switch	DR LIGHTING ACCEPTANCE Acceptance Certificates (NRCA Description # of units 2 0	NRCA-LTI-02-A Occ Sensors / Auto Time Switch	Inspector to verify). Indoor NRCA-LTI-03-A Auto Daylight	NRCA-LTI-04-A Demand Responsive	Outdoor NRCA-LTO-02-A Outdoor Controls	Confi	irmed

DocuSign Envelope ID: 19A3F54D-EFE3-4C74-93B3-EB68ABD7C1BE **Outdoor Lighting**

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Report Page: Date Prepared: Project Name: Regional Housing Authority Page 6 of 6 Project Address: 384 Miles Avenue 10/25/2019

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT Documentation Author Name: Documentation Author Signature: Mario Bertauco Mario Bertacco 9B5390587D4C4D9... 10/25/2019 NRG Compliance, LP Signature Date: Company: P.O. Box 3777 CEA/ HERS Certification Identification (if applicable): Santa Rosa, CA 95402 707-237-6957 City/State/Zip: RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- 1. The information provided on this Certificate of Compliance is true and correct.
- 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this
- Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable
- compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the

documentation the builder provides to the building owner at occupancy.			
Responsible Designer Name:	Eric D Ausmus	Responsible Designer Signature:	
Company :	Ausmus Engineering Inc	Date Signed: 10/25/19	

3311 Penzance Avenue License: CA CIVIL 65286 Address: City/State/Zip: Chico, CA 95973 530-521-2648

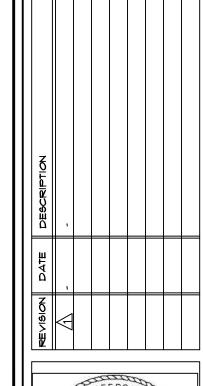
CA Building Energy Efficiency Standards- 2016 Nonresidential Compliance

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September 2017 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards

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OCT 22, 2019

DESIGNED BY: EDA
DRAWN BY: EDA CHECKED BY: EDA

SCALE: AS NOTED PROJECT *

PAGE