OWNER

PEEBEE & JAY'S JESSICA CLARK 5065 CARPINTERIA AVE CARPINTERIA, CA 93013

ARCHITECT DYLAN CHAPPELL ARCHITECTS 175 S.VENTURA AVE UNIT 104-A

VENTURA, CA 93001

MECH ENGINEER

TIM MOON **MOON ENGINEERING** 1304 E MAIN ST #F VENTURA, CA 93001 805.653.5215

ELECTRICAL ENGINEER JOHN MALONEY

> 156 W. ALAMAR AVE, SUITE B SANTA BARBARA, CA 93103 805.569.9216

PLUMBING FIXTURE CALCULATIONS

RESTROOM FACILITIES TO SERVE RESTAURANTS - PER 2016 CPC TABLE A CATEGORY:

RESTAURANTS (A-2) 1/30 SF - 1,364 SQ. FT. / 30 = **46 OCCUPANTS** TOTAL OCCUPANTS = **46 OCCUPANTS**

OCCUPANTS = 23 MEN, 23 WOMEN

REQUIRED RESTROOM FIXTURES - TABLE 422.1 2016 CPC. CATEGORY A-2

1 UNISEX RESTROOM REQUIRED 1 UNISEX RESTROOM PROVIDED

422.2 SEPARATE FACILITIES

SEPARATE TOILET FACILITIES SHALL BE PROVIDED FOR EACH SEX.

EXCEPTIONS: [NOT ADOPTED FOR OSHPD 1, 2, 3 & 4]

(1) RESIDENTIAL INSTALLATIONS.

(2) IN OCCUPANCIES WITH A TOTAL OCCUPANT LOAD OF 10 OR LESS, INCLUDING CUSTOMERS AND EMPLOYEES, ONE TOILET FACILITY, DESIGNED FOR USE BY NO MORE THAN ONE PERSON AT A TIME, SHALL BE PERMITTED FOR USE BY BOTH SEXES.

(3) IN BUSINESS AND MERCANTILE OCCUPANCIES WITH A TOTAL OCCUPANT LOAD OF 50 OR LESS INCLUDING CUSTOMERS AND EMPLOYEES, ONE TOILET FACILITY, DESIGNED FOR USE BY NO MORE THAN ONE PERSON AT A TIME, SHALL BE PERMITTED FOR USE BY BOTH SEXES.

*WHERE URINALS ARE PROVIDED ONE WATER CLOSET LESS THAN THE NUMBER SPECIFIED MAY BE PROVIDED FOR THE URINAL INSTALLED EXCEPT THE NUMBER OF WATER CLOSETS IN SUCH CASE SHALL NOT BE REDUCED TO LESS THAN ONE HALF OF THE MINIMUM SPECIFIED.

SCOPE OF WORK

AN INTERIOR OF 1,364 SQ. FT. FOR A NEW RESTAURANT. INCLUDES NEW ACCESSIBLE RESTROOM, NEW KITCHEN, AND NEW PLUMBING, ELECTRICAL AND MECHANICAL WORK.

DEFERRED SUBMITTALS

DEFERRED SUBMITTALS 1.FIRE SPRINKLER SYSTEM ALTERATION 2. CARBON DIOXIDE BEVERAGE DISPENSING SYSTEM

OCCUPANT LOAD

PER TABLE 1004.1.2

27 OCCUPANTS **DINING ROOM (B)** 1/15 SF - 405 SQ. FT. / 15 = **KITCHEN/BAR/SERVICE** 1/200 - 456 SQ. FT. / 200 = 3 OCCUPANTS

TOTAL OCCUPANTS IN BUILDING= **30 OCCUPANTS**

303.1.1 SMALL BUILDINGS AND TENANT SPACES

A BUILDING OR TENANT SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY

PARKING CALCULATIONS

PER SEC. 35.36.080

EXISTING PARKING TO REMAIN

EXITS REQUIRED EXITS PROVIDED

ALLOWABLE AREA

CONST. TYPE V-B MAX S.F. PER STORY 36,000 SF MAX # OF STORIES 60' **MAX HEIGHT**

SHEET INDEX

SHEET NAME SHEET NUMBER

GENERAL G1.0 TITLE SHEET

G2.0 **GENERAL NOTES** G3.0 G4.0 CAL GREEN CODE G4.1 CAL GREEN CODE

G5.1 **ACCESSIBILITY DETAILS** G5.2 ACCESSIBILITY REQUIREMENTS RESTROOMS

ACCESSIBILITY DETAILS

G6.0 OCCUPANCY AND EGRESS PLAN

ARCHITECTURAL A1.0 SITEPLAN A2.0 **FLOORPLAN**

A2.1 A2.5 ENLARGED ACCESSIBILITY PLAN A6.0 ARCHITECTURAL DETAILS

A7.0 SCHEDULES

ELECTRICAL

G5.0

E0.1 NOTES, SYMBOLS, SCHEDULES & DETAILS E0.2 LIGHTING COMPLIANCE FORMS E1.0 POWER PLAN & ELECTRICAL ROOF PLAN E2.0

LIGHTING PLAN

MECHANICAL

M1.0 LEGEND, SCHEDULES, NOTES & DETAILS M2.0 **EXISTING PLAN AND FLOOR PLAN** M3.0 TITLE 24 ENERGY COMPLIANCE FORMS M4.0 TITLE 24 ENERGY COMPLIANCE FORMS M5.0 **CAPTIVE AIRE SPEC**

M6.0 **CAPTIVE AIRE SPEC** M7.0 CAPTIVE AIRE SPEC

PLUMBING

P1.0 LEGEND, SCHEDULES, NOTES & DETAILS P2.0 EXISTING PLAN AND FLOOR PLAN

FIRE DEPARTMENT 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 4 INCHES (102MM) 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 VISIBILITY DISTANCE.

FIRE EXTINGUISHERS

FIRE EXTINGUISHERS PROVIDE FIRE EXTINGUISHERS WITHIN SPECIFIED TRAVEL DISTANCE FROM ALL POINTS IN THE OCCUPANCY; THE EXTINGUISHER SHALL BE MOUNTED(ELEVATED OFF CABINET FLOOR); THE TOP OF THE EXTINGUISHER SHALL BE NO HIGHER THAN 48 INCHES ABOVE THE FLOOR; EXTINGUISHER SHALL BE PLACED IN AN EASILY ACCESSIBLE LOCATION WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE FOR USE.

FIRE SPRINKLER:

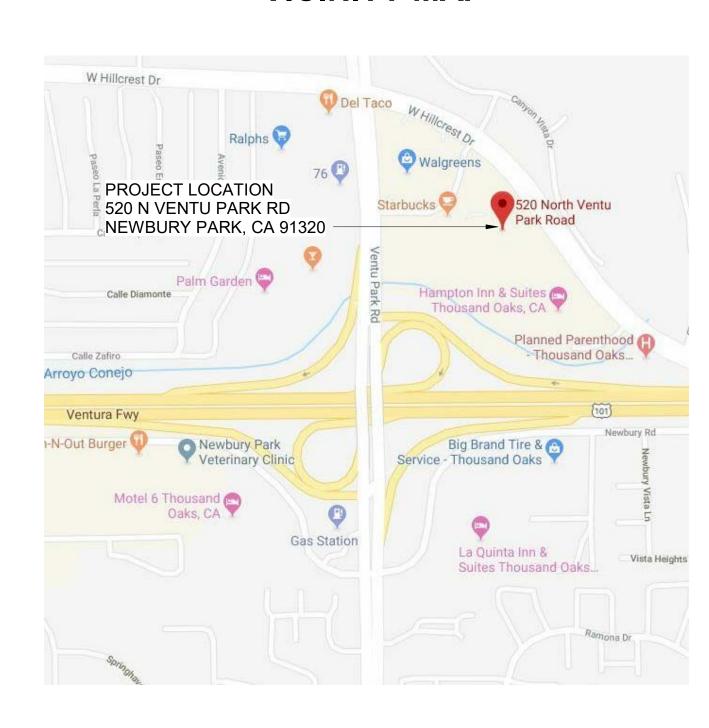
PROVIDE A COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM THROUGHOUT THE STRUCTURE, INCLUDING THE EXISTING GARAGE, INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF NFPA 13D. FIRE SPRINKLER PLANS SHALL BE SUBMITTED WITHIN 30 DAYS OF ISSUANCE OF THE BUILDING PERMIT.

FIRE ALARM

SPRINKLER SYSTEMS WITH MORE THAN 20 HEADS MUST BE SUPERVISED FOR WATER FLOW AND CONTROL VALVE TAMPER BY AN APPROVED CENTRAL STATION PROPRIETARY OR REMOTE STATION SERVICE. FIRE ALARM PLANS SHALL BE SUBMITTED WITHIN 30 DAYS OF ISSUANCE OF THE BUILDING PERMIT

CALIFORNIA HEALTH AND SAFETY CODE SECTION 225508.1 1. WITHIN 30 DAYS OF ANY ONE OF THE FOLLOWING EVENTS, A BUSINESS SUBJECT TO THIS ARTICLE SHALL ELECTRONICALLY UPDATE THE INFORMATION SUBMITTED TO THE STATEWIDE INFORMATION MANAGEMENT SYSTEM (CERS): (A) A 100 PERCENT OR MORE INCREASE IN THE QUANTITY OF PREVIOUSLY DISCLOSED MATERIAL. (B) ANY HANDLING OF A PREVIOUSLY UNDISCLOSED HAZARDOUS MATERIAL SUBJECT TO THE INVENTORY REQUIREMENTS OF THIS ARTICLE. (C) CHANGE OF BUSINESS ADDRESS. (D) CHANGE OF BUSINESS OWNERSHIP. (E) CHANGE OF BUSINESS NAME. (F) (1) A SUBSTANTIAL CHANGE IN THE HANDLER'S OPERATIONS OCCURS THAT REQUIRES MODIFICATION TO ANY PORTION OF THE BUSINESS PLAN. (2) FOR THE PURPOSES OF THIS SUBDIVISION, "SUBSTANTIAL CHANGE" MEANS ANY CHANGE IN A REGULATED FACILITY THAT WOULD INHIBIT IMMEDIATE RESPONSE DURING AN EMERGENCY BY EITHER SITE PERSONNEL OR EMERGENCY RESCUE PERSONNEL, OR THAT COULD INHIBIT THE HANDLER'S ABILITY TO COMPLY WITH SECTION 25507, CHANGE THE OPERATIONAL KNOWLEDGE OF THE FACILITY, OR IMPEDE IMPLEMENTATION OF THE BUSINESS PLAN.

VICINITY MAP



550 Maple Stree Suite A Ca. 93013 805.205.4760

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Architects, Inc.



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PROJECT STATISTICS

CARPINTERIA, CA 93013

520 N VENTU PARK RD. UNIT 160 PROJECT ADDRESS THOUSAND OAKS, CA 91320

> PEEBEE & JAY'S JESSICA CLARK **5065 CARPINTERIA AVE**

ARCHITECT DYLAN CHAPPELL ARCHITECTS 175 S.VENTURA AVE UNIT 104-A

> VENTURA, CA 93001 805.205.4760

> > **EXISTING**

1,364 sf

ASSESSOR'S PARCEL NUMBER 526-0-170-130 1460 sq. ft. **GROSS LOT AREA OF WORK** OCCUPANCY **CONSTRUCTION TYPE** V-B **SETBACKS** NONE **AVERAGE SLOPE OF PROPERTY** 2% **SPRINKLERS** # OF STORIES **CUT AND FILL** N/A

SQUARE FOOTAGE

PARKING

OWNER

GROSS 1460 sf 1,364 sf (E) UNIT 160

CODE COMPLIANCE

2016 CALIFORNIA BUILDING CODE

AREA OF WORK

2016 CALIFORNIA MECHANICAL CODE

2016 CALIFORNIA PLUMBING CODE

2016 CALIFORNIA ELECTRICAL CODE 2016 CALIFORNIA FIRE PROTECTION CODE

2016 CALIFORNIA ENERGY CODE

2016 CALIFORNIA GREEN BUILDING CODE 2016 CALIFORNIA HISTORICAL BUILDING CODE

No. Description Date

REVISION:

TITLE SHEET

3:49:56 PM

Title 24 California Building Standards Code:

2016 California Building Standards Administrative Code

2016 California Elevator Safety Construction Code

2016 California Green Building Standards Code

2016 California Historical Building Code

2016 California Residential Code

2016 California Mechanical Code

2016 California Plumbing Code

2016 California Electrical Code 2016 California Building Code

2016 California Energy Code 2016 California Fire Code

Permits, Fees and Approvals:

The Contractor shall obtain and pay for all permits, licenses, and fees, required by all governing entities as necessary for successful completion of the project with the exception of the general building permit and deputy inspections which will be furnished and paid for by the owner.

The Contractor shall procure all notices and licenses required for the completion of the work. The cost of these notices and licenses is incidental to other items and as such, no additional payment will be made for costs incurred in obtaining the required notices and licenses or in conforming to the requirements thereof.

General Conditions

The contract documents 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 Architect shall not include inspections of the protective measures or the construction procedures used by The Contractor. Any support services performed by The Architect during construction shall be distinguished from continuous and detailed inspection services furnished by others. The support services performed by The Architect are performed solely for the purpose of assisting the quality control and in achieving conformance with the contract documents, but they do not guarantee The Contractor's performance and shall not be construed as supervision of construction.

Erosion Control and Best Management Practices:

It shall be the Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the Best Management Practices. If applicable, see the Erosion Control Plan for erosion control measures.

Existing Conditions

The Contractor shall verify all dimensions, elevations, and any existing conditions at the site before commencing work and report any discrepancies to The Architect prior to starting the work. Any work performed without the authorization of The Architect and Owner shall be corrected by the General Contractor at his own expense and at no expense to the Owner and Architect.

It is The Contractor's responsibility to inspect and examine the work, and to ascertain and evaluate the job conditions, and access the complexities or difficulties to be encountered as not all existing conditions are indicated on the drawings

The Contractor will be held responsible for the location and the protection of all existing utility lines above and below grade, including but not limited to, electrical, sewer, water, reclaimed water, irrigation, gas, telephone, data etc. In addition, The Contractor shall caution all subcontractors that the site and public right-of-way contains underground utility lines. The drawings show diagrammatically the approximate location of the underground utilities where information is available, but the drawings are not exact as to the quantity, extent or location of such lines. The Contractor shall contact Dig Alert at HYPERLINK "tel:(800)%20227-2600"<u>1.800.227.2600</u> two working days prior to any

The Contractor shall record on the Record Drawings, the exact location of all underground utilities encountered, disconnect and cap as required, and repair any damage to existing utilities as a result of the work under this contract. All anticipated interruption of utility services shall be reported to the Owner two days prior to work commencing on said utility.

Demolition drawings, if provided, are for general information only. The Contractor and Sub-Contractors shall review the drawings and existing conditions to define the scope of demolition involved to accomplish the work.

Asbestos Alert: The Contractor is made aware of, that in buildings or portions thereof constructed prior to 1972, or thereabouts, there is a serious possibility that some existing construction materials may contain asbestos.

If asbestos containing materials, or suspected materials are encountered, The Contractor shall notify The Owner to immediately engage a qualified industrial engineer to inspect the existing materials in the area to be altered or renovated, identify the existing materials containing asbestos, take random samples, submit to a laboratory for tests, and write a report regarding the abatement of existing, if any, asbestos fibers. The Contractor shall not disturb materials containing asbestos until these materials

have been positively identified. Refer to California Department of Industrial Relations.

a) Title 8, Section 5208 b) Asbestos Federal Code Regulations 006

c) EPA title 4, Code of federal regulations Part 6

d) EPA 560/5-83-002 asbestos abatement e) EPA 560/5-83-002 guidance for controlling friable asbestos-containing materials in

Lead Alert: The employer or contractor must send notification prior to the start of the job unless: the lead content of the material disturbed is less than 0.5 percent, 5,000 parts per million (weight by weight) or 1.0 mg./cm2; the amount of lead-containing material is less than 100 square feet or 100 linear feet; or the only task is torch cutting or welding for no longer than one hour per shift.

Applicable standards

Title 8, California Code of Regulations, Chapter 4, Subchapter 4, Article 4, Section

The <u>written notification</u> must be sent in a manner to reach the nearest <u>Cal/OSHA</u> district office at least 24 hours prior to the start of lead work. Urgent and unforeseen work may be reported by phone at the start of the job, but must be followed by written <u>confirmation</u> within 24 hours of the call. There is an <u>annual notification</u> option for employers conducting ongoing lead-related operations and maintenance work on stationary steel structures.

Temporary Protection:

The Contractor shall assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property. This requirement shall apply continuously and not be limited to normal hours of operation.

Damage and Theft:

Any work or materials of one trade damaged by another trade becomes the responsibility of the offending trade. The damaged work shall be repaired or replaced by the original installer and the costs borne by the offender. Any materials stolen from the premises or damaged either before or after installation shall be replaced by The Contractor at no additional cost to The Owner. The General Contractor shall take all necessary precautions such as barricades, guards, etc., as required to prevent damage and theft. Special care shall be taken to protect work in place, materials and equipment stored, etc., from theft and vandalism.

Clean-Up:

The Contractor shall at all times keep the site clean and free of all waste material or rubbish caused by his operations. At the completion of the work, The Contractor shall remove all waste materials and rubbish from and about the project and legally dispose of. All tools, construction equipment, machinery, and surplus materials shall be removed from the site. All demolished and removed materials and fixtures become the property of The Contractor unless otherwise noted.

Waste Management:

The following waste categories, at a minimum, shall be diverted from landfill:

c) clean dimensional wood, palette wood, plywood, particle board, etc.

b) inerts (soil, rock, concrete, masonry, glass)

d) cardboard, paper, packaging e) all metals

f) insulation g) gypsum wall board

h) carpet and pad

i) paint

i) plastics: ABS. PVC Construction waste reduction, disposal and recycling to comply with Section 5.408 of the California Green Building Standards Code.

Construction Waste Management Plan:

Documentation shall be provided to the enforcing agency which demonstrates compliance with section 5.408.2, Items 1-4. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by 1. Identify the materials to be diverted from disposal by efficient usage, recycling,

reuse on the project or salvage for future use or sale. 2. Determine if materials will be sorted on-site or mixed.

4. Specify that the amount of materials diverted shall be calculated by weight or

3. Identify diversion facilities where material collected will be taken.

volume, but not both.

Certificate of Compliance: Upon completion of the work, The Contractor shall submit a "Certificate of Compliance" signed by The General Contractor to Department of Building and Safety of the authority having jurisdiction, acting on behalf of The Owner, stating that the work relating to energy standards has been performed and materials have been installed according to plans and specifications.

The contract documents include these drawings, the general and supplemental conditions, the specifications, and all addenda, bulletins, and sketches issued prior to

and during construction The drawings and specifications are divided into separate sections and/or divisions for convenience only and are not intended to limit the areas of work. It is the responsibility of The Contractor to coordinate the work of the trades to complete the project in accordance with the contract requirements. Refer to the consultant drawings for additional notes that apply.

These drawings are not complete until approved by the authority having jurisdiction.

The Civil, Landscape, Structural, Mechanical, and Electrical drawings are supplementary to The Architectural drawings. It shall be the responsibility of the General Contractor to check with the Architectural drawings before the installation of structural, mechanical, and electrical work. Should there be a discrepancy between the Architectural drawings and the consulting engineer's drawings, it shall be brought to The Architect's attention for clarification prior to beginning work. Any work installed in conflict with any of The Architectural drawings shall be corrected by The General Contractor at his own expense and at no expense to The Owner or Architect.

Symbols and Abbreviations:

All symbols, abbreviations, and material indications used in the drawings are considered to be construction standards. Refer to the symbols and abbreviations key for the Architectural drawings, and each set of consultants drawings separately for interpretation. If The Contractor still has questions regarding their exact meaning. The Contractor shall request The Architect to issue clarification.

Dimensions:

Dimensions shown on the drawings are to gridline, face of stud and face of concrete or concrete block unless noted otherwise. Boxed dimensions are clear dimensions measured from finish to finish, usually indicating a minimum or maximum code required clearance. Alignment takes precedent over dimensions. Verify all dimensions and conditions

Elevation Datums:

and notify Architect of any discrepancies.

Finish floor elevations are to top, unless noted otherwise. Carpeting shall not be used as a finish floor elevation. Finish floor elevations are noted in Plans, Sections, and

Vertical control is relative to a structure-specific datum elevation. The datum elevation is tied to a site topography elevation. The datum elevation is shown in

Ceiling height elevations are from finish floor to bottom of ceiling post or roof rafter.

Details are intended to show the method and manner of accomplishing the work and are not limited to reference items. Minor modifications may be required to suit the job dimensions or conditions and shall be included as parts of the work.

Do not scale drawings. A dimension missing from plans or needed for execution of work shall be clarified or provided by The Architect before the work is installed.

Specific notes on details shall apply to similar conditions on all other details, unless noted otherwise, and are not limited to reference items.

Coordination: The Contractor shall verify all sizes and preparatory work for equipment or work for

others and shall coordinate the work of this contract with N.I.C. or work furnished and/or installed by others. The Contractor shall provide and coordinate the exact dimensions to the sizes and positions of all equipment, mounting, attachments and conduit related to the work.

positions of openings in building components necessary for the installation of the All valves, controls, cleanouts, and termination shall be positioned for safe, direct, and easy access. All piping shall be installed for convenient future additions and

The Contractor shall provide and coordinate the exact dimensions, sizes, and

modifications. It is The Contractor's responsibility to coordinate all work at the site. The Contractor shall be responsible for the work of his subcontractors and shall anticipate and coordinate all existing and new conditions with work to be performed as part of this contract. Unless brought to the attention of The Architect and Owner prior to starting work, The Contractor shall resolve any conflicts among the work of himself and his subcontractors at no additional expense to The Owner or Architect.

The Contractor shall maintain a complete set of drawings at the job site for use in making Record Drawings. Any revisions shall be noted thereon and submitted to the Architect at the completion of the job. A copy of the Record Drawings shall be provided to the Owner.

The Contractor shall provide the building owner with a complete operations manual prior to final inspection. The manual shall include a complete set of product operating, maintenance care and warranty instructions and information for all appliances, equipment, and finishes.

Manufacturers Directions:

Operation and Maintenance Manual:

Where specifications require work to be performed in accordance with manufacturer's directions, the Contractor shall obtain and distribute copies of said directions to The Architect and The Owner before starting the affected part of the

Fireblocking:

Fireblocking shall be provided to cut off all concealed draft openings (both vertical and horizontal) and shall form an effective barrier between stories and between the top story and the roof space.

Fireblocking materials shall consist of 2 inches nominal lumber or two thicknesses 1-inch nominal lumber with broken lap joints or one thickness of 12/32 inch wood structural panel with joints back by 23/32 wood structural panel or one thickness of 3/4" Type 2-M particleboard with joints backed by 3/4 inch Type 2-M particle board. Fire blocks may also be of gypsum board, cement fiber board, batts or blankets of mineral or glass fiber, or other approved materials installed in such a manner as to be securely retained in place. Loose-fill insulation material shall not be used as a fire block material. Walls having parallel or staggered studs for sound-transmission control shall have fire blocks of batts or blankets of mineral or glass fiber or other approved flexible material.

Mounting Backing:

The Contractor shall provide mounting backing behind all wall, floor, and ceiling mounted items such as toilet accessories, light fixtures, cabinets, etc., in accordance with these documents, per manufacturer requirements, CBC requirements, and as required for a proper installation.

Exterior Joints:

between walls and roof, between wall panels, at penetrations of utilities through the envelope shall be sealed, and/or weather-stripped to limit air leakage.

All exterior joints around window and doorframes, between walls and foundations,

Prior to pouring any Concrete, the Contractor shall make certain that all embedded items and materials, including the work of other trades, are in place and securely anchored prior to any inspection. All embedded items partially exposed, or with less than the required coverage, shall be of a corrosion resistant finish or material.

Dissimilar Metals:

All dissimilar metals shall be effectively isolated from each other to prevent molecular breakdown. If the Contractor is unsure if isolation is required for a particular detail or condition, notify The Architect for clarification.

All finishes shall comply with requirements of the Building Code and local codes,

All gypsum wall board (GWB) shall be 5/8" thick typically. Use "type x" gypsum board where indicated on the Drawings or as required in areas needing fire-resistive

Use water resistant gypsum wall board (WR GWB), or equivalent, where indicated or required in areas subject to moisture penetration. Where framed walls and partitions are covered on the interior with plaster, tile, or similar materials and are subjected to water splash, the framing shall be protected

with approved waterproofing paper. Where applicable, box-in all electrical boxes and all recessed ceiling light fixtures with 5/8" "type x" gypsum wall board to maintain the assembly integrity when

installed in fire rated assemblies. Necessary work such as cutting holes, repairing holes, access panel installation, finish repairs, wall texturing, paint touch-up, and telecommunications systems shall be included as a part of the work of this contract. Where matching existing finishes, the new finish shall cover the surface to nearest plane change.

Plumbing: Showers and shower-tub combinations shall be provided with individual control valves of the pressure balance or thermostatic mixing valve type. PCP 408.3

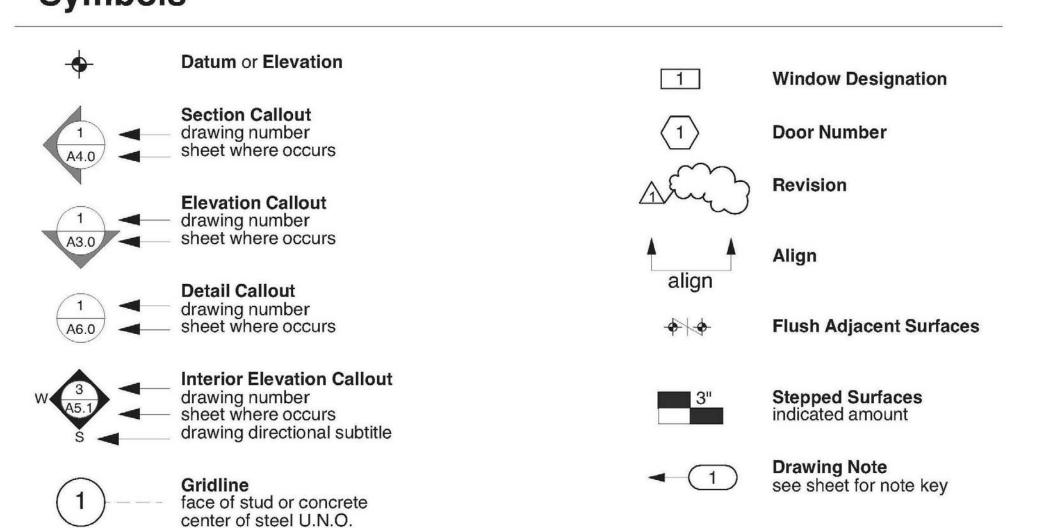
Bathtub to have 12" square bathtub access or will use non-slip joint triap per CPC sec 402.10

Plumbing to be done with type "L" copper or Pex per local ordinance.

ABBREVIATIONS

&	and	F.G.	finish grade	PAV.	paving or pavement
@ A.B.	at	FIN.	finish	PLAM	plastic laminate
	anchor bolt	FJ	floor joist	PLAS.	plaster .
ACT	acoustical ceiling tile	FL	flowline	PLYWD.	plywood
		FLASH.	flashing	PT.	point
AD.	area drain	FLR.	floor	P.T.	pressure treated
ADJ.	adjustable or adjacent	F.O.	face of	PTDF	pressure treated douglas f
A.F.F.	above finish floor	F.O.B.	face of block	PDRCTD	powder coated
A.F.G.	above finish grade	F.O.C.	face of concrete	PTD.	painted
A.F.C.I.	arc fault circuit interrupter	F.O.F.	face of finish	PTCL.BD.	particle board
AGGR.	aggregate	F.O.S.	face of stud		
ALUM.	aluminum	FP	fireplace	(R)	remove
APPROX.	approximate	FS	finish surface	R.	piser
ARCH.	architectural	FT.	foot or feet	RAD.	dadius
AC	asphaltic concrete	FTG.	footing	R.A.	return air
	•	FURR.	furring	RD	roof drain
BD.	board	(F)	future	RDWD.	redwood
BTWN	between	FŚR	fire sprinkler riser	REINF.	reinforced
BITUM.	bituminous		•	REQ.	required
BLDG.	building	GALV.	galvanized	RM.	room
BLK.	block	G.F.C.I.	ground fault circuit interrupter	R.O.	rough opening
BLKG.	blocking	GL.	glass	(R/S)	remove and save. salvage
BM.	beam	GND.	ground	RS /	rough sawn
B.O.	bottom of	GRD.	grade		
ВОТ.	bottom	GWB.	gypsum wall board	S.	south
BW	bottom of wall	GYP.	gypsum	S.A.D.	see architectural drawing
511	bottom of wan	GM	gas meter	S4S	surfaced four sides
CAB.	cabinet	CIVI	gao meter	SCHED.	schedule
CAP	capacity	H.T.	height	SERV.	service
C.F.	contractor furnished	H.B.	hose bibb	SF.	square feet
C.I.	contractor installed	HNDRL.	handrail	SH.	shelf/shelves
C.J.	control joint	HORIZ.	horizontal	SHT.	sheet
CJ	ceiling joist	HR.	hour	SHTG.	sheathing
CL	center line	HVAC.	heating, ventilation & air conditioning	SIM.	similar
CLG.	ceiling	IIVAC.	rieating, ventilation & all conditioning	SPEC.	specification
CLG. CLKG.	caulking	I.D.	inside diameter (DIM.)	SPEC. SQ.	•
	closet	INSUL.	insulation	SS.	square stainless steel
CLO.		INSUL. INT.		STC	
CLR.	clear	IIN I .	interior		sound transmission class
CMU	concrete masonry unit	IT	ioint	STND.	stained
COL.	column	JT.	joint	STD.	standard
CONC.	concrete	JST.	joist	STL	steel
CONN.	connection	IZI T	liitaban	STOR.	storage
CONSTR.	construction	KIT.	kitchen	STRUCT.	structural
CONT.	continous	K.P.	kick plate		
CNTR.	counter			T.	toilet
CSK.	countersink	LAM.	laminate	T	tempered glass
CTR.	center	LB.	pound	T	tread
(-)		LT.	light	T.B.	towel bar
(D)	demolish	LAUN.	laundry	TC	top of curb/concrete
DBL.	double			TEL.	telephone
DEPT	department	MAT'L.	material	TEMP.	temperature
DET.	detail	M.B.	master bedroom	T&G	tounge and groove
DF	drinking fountain	MAX.	maximum	THRES.	threshold
DIA.	diameter	M.C.	medicine cabinet	T.O.	top of
DIM.	dimension	MDF	medium density fiberboard	T.O.C.	top of curb/concrete
DN	down	MECH.	mechanical	T.P.	top of paving
DR.	door	MEMB.	membrane	T.O.S.	top of slab/steel
DS.	downspout	MFG.	manufacturer	T.O.W.	top of wall
DWG.	drawing	MIN.	minimum	T.O.P.	top of plate
		MISC.	miscellaneous	TW	top of wall
(E) E.	existing	MUL.	mullion	TYP.	typical
E.	east				
EA.	each	(N)	new	U.N.O.	unless noted otherwise
E.J.	expansion joint	Ň.	north		
EL.	elevation	N/A	nat applicable	VERT.	vertical
ELEC.	electrical	N.I.C.	not in contract	V.I.F.	verify in field
E.P.	electrical panel	NO. or #	number		•
EQ.	equal	NOM.	nominal	W.	west
EQUIP.	equipment	N.T.S.	nt to scale	W/	with
EXP.	expansion	·		WD.	wood
EXT.	exterior	O.C.	on center	W.H.	water heater
	- .	O.D.	outside diameter (DIM.)	WDW.	window
F	fluorescent	0.F.	outside face	W/O	without
F.A.U.	forced air unit	OFC.	office	W.P.	waterproof
FDN.	foundation	OPNG.	opening	W.R.	water resistant
F.F.	finish floor	0/ 1 1 0.	over		
		O.F.C.I.	owner furnished, contractor installed		
		O.F.O.I.	owner furnished, contractor installed		
		ORD	overflow roof drain		
			overhood		

Symbols

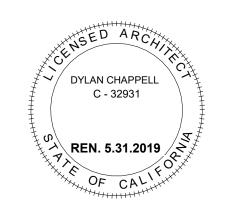


OVRHD. overhead



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REVISION:

No. | Description | Date

GENERAL NOTES

3:49:57 PM

UNIT 150

1364 SQ. FT.

NEIGHBORING UNIT

UNIT 170

Erosion Control and Best Management Practices Notes

PEEBEE & JAY'S JESSICA CLARK 5065 CARPINTERIA AVE CARPINTERIA, CA 93013

It shall be the Contractor's responsibility to maintain control of the entire construction operations and to keep the entire site in compliance with the soil Erosion Control Plan.

Detailed Erosion Control Plan preparer: DYLAN CHAPPELL ARCHITECTS 175 S. VENTURA AVE. Suit 104 A VENTURA, CA 93001 805.205.4760

• This Plan is intended for use for interim erosion and sediment control only and is not to be used for final elevations or permanent improvements.

• The Contractor shall be responsible for monitoring erosion and sediment control measures prior, during, and after storm events. Monitoring includes maintaining a file documenting on-site inspections, problems encountered, corrective actions, and notes and a redline map of remedial implementation measures.

 Reasonable care shall be taken when hauling any earth, sand, gravel, stone, debris or any hazardous substance over any public street, alley or other public place. Should any blow, spill, or track over and upon said public or adjacent private property, immediate clean up shall occur.

 Construction entrances shall be installed prior to commencement of grading. All construction traffic entering onto the paved roads must cross the stabilized construction entranceway.

 Sanitary facilities shall be maintained on-site as appropriate.

 During the rainy season, all paved areas shall be kept clear of earth material and debris. All earth stockpiles over 2.0 CY shall be covered by a tarp and ringed with straw bales or silt fencing. The site shall be maintained so as to minimize sediment-laden runoff to any storm drainage system including existing drainage swales and water

• Construction operations shall be carried out in such a manner that erosion and water pollution will be minimized. State and local laws concerning pollution abatement shall be complied with.

 The facilities shown on this plan are designed to control erosion and sediment during the rainy season, **November 1 to April 15.** Facilities are to be operable prior to October 15 of any year.

 Grading operations during the rainy season which leave denuded slopes shall be protected with erosion control measures immediately following grading on the slopes. This will include use of straw mulch, tackifier, and erosion control blankets.

 This plan covers only the first winter following grading with assumed site conditions as shown on the Detailed Erosion Control Plan. **Prior to September 15**, the completion

of site improvement shall be evaluated and revisions made to this Plan as necessary with the approval of the City. Plans are to be resubmitted for approval prior to **August** 15 of each subsequent year until site improvements are accepted by the County.

Construction Entrance:

The existing asphaltic concrete shared driveway, acting as the construction entrance onto public way, shall be kept clean and free of mud and dirt that is tracked onto it. A gravel construction entrance shall be installed where vehicle traffic is anticipated off of unpaved areas. The responsibility for field design to meet site conditions, and maintenance of the construction entrance remains with the construction contractor. The owner/contractor shall remain responsible for the clean up of any mud or dirt that is tracked onto public streets or paved areas, even with the installation of gravel construction entrances.

Catch Basin Protection: A filter system shall be used on catch basins (drop inlets) in public and private streets, or parking lots downstream of this project. See detail.

Sediment Filters/Barriers (Silt Fences and Straw

Sediment filters such as silt fences or straw wattles shall be installed along the down slope edge of the disturbed area, prior to the commencement of grading. The sediment filter structures shall be located so that all runoff from the construction site is filtered prior to crossing a property line, or entering the City storm drain system. Sediment filter structures are to be inspected regularly by County Inspection staff during inspections scheduled by the Contractor. Sediment shall be removed when the depth of sediment is no more than one half the height of the structure. Straw wattles should not remain in place more than 12 months after installation unless it can be determining significant deterioration has not occurred. Sediment filters shall be inspected and repaired prior to, and after every storm event. Sediment filters shall be installed level along contours, and shall have upturns into the slope for the last 5'. Silt fences and straw wattles shall be installed per detail in locations identified on the Erosion Control Plan.

Plastic Sheeting/Tarps: Plastic sheeting shall generally not be used as an erosion control measure over large areas. Plastic sheeting may be used to protect small, highly erodible areas, or to protect temporary stockpiles of material. If plastic sheeting is used, the path of concentrated flow from the plastic must be protected.

date, see Wet Weather Measures below.

Slope Protection:

Slopes greater than 4V:1H should be protected using straw and tackifier. The installation of erosion control blankets should be considered for all disturbed slopes steeper than 2.5H:1V and greater than 30 feet in slope length. Installation of fiber rolls staked on contour should be considered for all slopes steeper than 4H:1V, with slope lengths greater than 30 feet. Straw wattles or silt fencing should be installed at the toe of all slopes steeper than 4H:1V. Fiber rolls shall be

Wet Weather Measures:

If a protective ground cover is not established by October 15, open areas shall be protected through the winter with straw mulch and fiber rolls. Straw mulch shall be applied at a rate of 3,000 lb./ac, or wood fiber if hydroseeded 2,000 lb./ac. Fiber rolls shall be installed per the detail.

General Site Protection:

system.

Non-storm water runoff from equipment and vehicle washing and any other activity shall be contained at

Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions must be made to retain concrete wastes on site until they can be disposed of as a solid waste. See Erosion Control Plan for designated Concrete Washout Area. The concrete washout area shall consist of a plasticlined dumpster, or plastic lined earthen, or straw wattle containment area.

Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.

Shoring, Construction Fencing, and other Site

The responsibility for design to meet site conditions, and maintenance of the construction site safety remains with the construction contractor. Any applicable engineering and permitting of shoring or other safety devices is the responsibility of the contractor. Construction fencing shown on this plan is for tree and vegetation protection only.

measures shall remain in place and be maintained in establishment of landscaping, grass, mulching, or are otherwise covered and protected from erosion.

Existing Vegetation and Revegetation: As far as is practicable, existing vegetation shall be protected and left in place, in accordance with the clearing limits shown on the approved Building, Grading, Landscape and Erosion Control Plans. Work areas shall be carefully located and marked to reduce potential damage. Where existing vegetation has been removed, or the original land contours disturbed, the site shall be revegetated, and the vegetation established, as soon as practicable, but no later than October 15. If vegetation is not established by said

installed per the detail.

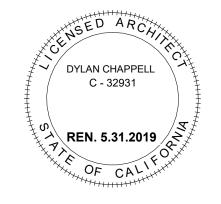
Stockpiles of earth, sand and other construction related materials must be protected from being transported from the site by the forces of wind or water. This includes sand for stucco, drywall demolition debris, drywall "mud packaging, etc.

Fuels, oils, solvents and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills may not be washed into the drainage

Protection Measure Removal: The erosion prevention and sediment control good condition until all disturbed soil areas are permanently stabilized by installation and

550 Maple Stree Suite A Ca. 93013 805.205.4760

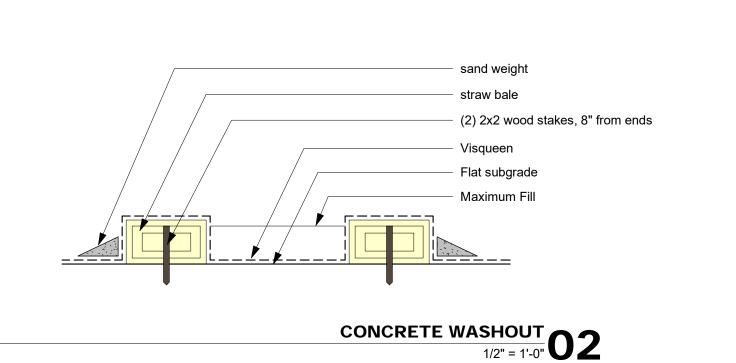
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REVISION:

No.	Description	Date



SECTION 5.101 GENERAL

5.101.1 Scope. 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 environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 **DEFINITIONS**

5.102.1 Definitions. The following terms are defined in Chapter 2.

CUTOFF LUMINAIRES. LOW-EMITTING AND FUEL EFFICIENT VEHICLES. NEIGHBORHOOD ELECTRIC VEHICLE (NEV). TENANT-OCCUPANTS.

VANPOOL VEHICLE.

SECTION 5.103 SITE SELECTION (Reserved)

SECTION 5.104 SITE PRESERVATION (Reserved)

SECTION 5.105 **DECONSTRUCTION AND REUSE** OF EXISTING STRUCTURES (Reserved)

SECTION 5.106 SITE DEVELOPMENT

| 5.106.1 Stormwater pollution prevention for projects that disturb less than one acre of land. Newly constructed projects and additions which disturb less than one acre of land and are not part of a larger common plan of development or sale shall prevent the pollution of stormwater runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted stormwater management and/or erosion control ordinance. 5.106.1.2 Best management practices (BMP's). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP's.

- 1. Soil loss BMP's that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
- a. Scheduling construction activity during dry weather, when possible. b. Preservation of natural features, vegetation,
- soil, and buffers around surface waters. c. Drainage swales or lined ditches to control
- stormwater flow d. Mulching or hydroseeding to stabilize dis-
- turbed soils. e. Erosion control to protect slopes.
- f. Protection of storm drain inlets (gravel bags or catch basin inserts).
- g. Perimeter sediment control (perimeter silt fence, fiber rolls). h. Sediment trap or sediment basin to retain sedi-
- ment on site. i. Stabilized construction exits.
- j. Wind erosion control.
- k. Other soil loss BMP's acceptable to the
- enforcing agency. 2. Good housekeeping BMP's to manage construction equipment, materials, non-stormwater discharges, and wastes that should be considered for implemen-
- tation as appropriate for each project include, but are not limited to, the following:
- a. Dewatering activities.
- b. Material handling and waste management. c. Building materials stockpile management.
- d. Management of washout areas (concrete, paints, e. Control of vehicle/equipment fueling to con-
- tractor's staging area. f. Vehicle and equipment cleaning performed off site.
- g. Spill prevention and control. h. Other housekeeping BMP's acceptable to the
- enforcing agency

| 5.106.2 Stormwater pollution prevention for projects that disturb one or more acres of land. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) dis-

turb one acre or more of land, or (2) disturb less than one acre of

land but are part of a larger common plan of development or sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development or sale must comply with the postconstruction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance

Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit). The NPDES permits require postconstruction runoff (postproject hydrology) to match the preconstruction runoff (pre-proj-

ect hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conservation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency. Refer to the current applicable permits on the State Water

Resources Control Board website at: www.waterboards.ca.gov/ constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development. **5.106.4 Bicycle parking.** For buildings within the authority

of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2.

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 applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.

Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 < percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. **5.106.4.1.3.** For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant

vehicular parking spaces being added, with a minimum

of one bicycle parking facility.

5.106.4.1.4. For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility. **5.106.4.1.5.** Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be con-

venient 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. **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 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building. 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

3. Lockable, permanently anchored bicycle lockers. 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					
TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES				
0–9	0				
10–25	1				
26–50	3				
51–75	6				
76–100	8				
101–150	11				
151–200	16				
201 and over	At least 8 percent of total				

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

CLEAN AIR/ VANPOOL/EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be 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 Electrical Code 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 into a listed suitable cab-

inet, box, enclosure or equivalent. 5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40ampere 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 specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.

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 to simultaneously

charge all required EVs at its full rated amperage. 5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculation. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

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

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 project. **TABLE 5.106.5.3.3** TOTAL NUMBER OF NUMBER OF REQUIRED EV

CHARGING SPACES

6 percent of total¹

ACTUAL PARKING SPACES

10-25

26-50

51-75

76-100

101-150

151-200

201 and over

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

Chapter 2. EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS] FOOTPRINT AREA [DSA-SS]

GRAYWATER. METERING FAUCET

SUBMETER.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). POTABLE WATER. RECYCLED WATER.

ignated parking for clean air vehicles.

overcurrent protective device space(s) for future EV

charging as "EV CAPABLE". The raceway termination

location shall be permanently and visibly marked as

5.106.5.3.5 [N] Future charging spaces qualify as des-

ignated parking as described in Section 5.106.5.2 Des-

"EV CAPABLE."

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] [BSC-CG] Outdoor ighting systems shall be designed and installed to comply

with the following: 1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code;

2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);

3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and 4. Allowable BUG ratings not exceeding those shown in

Table 5.106.8 [N], or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N] 1. Luminaires that qualify as exceptions in Section

140.7 of the California Energy Code. 2. Emergency lighting.

3. Building facade meeting the requirements in Table 140.7-B of the *California Energy Code*, Part 6. 4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of con-

struction. 1. [N] See also California Building Code, Chapter 12, Section 1205.7 for college campus lighting require-

ments for parking facilities and walkways. 2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-I, California Energy Code Tables 130.2-A and

5.106.8.1 Light pollution reduction. [N] [DSA-SS] Outdoor lighting systems shall be designed and installed to comply with the following:

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 5.106.8.1, or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N] 1. Luminaires that qualify as exceptions in Section

140.7 of the California Energy Code. 2. Emergency lighting. 3. Building facade meeting the requirements in Table

140.7-B of the *California Energy Code*, Part 6. 4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of con-

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

1. Swales.

drainage path.

2. Water collection and disposal systems. 3. French drains.

4. Water retention gardens.

5. Other water measures which keep surface water away from buildings and aid in groundwater recharge. Exception: Additions and alterations not altering the

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 CONSERVA-TION

SECTION 5.301 GENERAL

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

SECTION 5.302 **DEFINITIONS**

5.302.1 Definitions. The following terms are defined in

SPECIAL LANDSCAPE AREA (SLA). [DSA-SS]

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS^{1,2}

LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
N/A	No Limit	No Limit	No Limit	No Limit
N/A	B2	В3	B4	B4
N/A	B1	B2	В3	В3
N/A	В0	В0	B1	B2
N/A	U0	U0	U0	U0
N/A	U1	U2	U3	U4
N/A	G1	G2	G3	G4
N/A	G0	G1	G1	G2
N/A	G0	G0	G1	G1
N/A	G0	G0	G0	G1
	N/A	ZONE ZONE LZ1	ZONE ZONE LZ1	ZONE LZ0 ZONE LZ1 ZONE LZ2 ZONE LZ3 N/A No Limit No Limit No Limit N/A B2 B3 B4 N/A B1 B2 B3 N/A B0 B0 B1 N/A U0 U0 U0 N/A U1 U2 U3 N/A G1 G2 G3 N/A G0 G1 G1 N/A G0 G1 G1 N/A G0 G1 G1 N/A G0 G0 G1

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 section. 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

TABLE 5.106.8.1 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS^{1,2} ALLOWABLE RATING Maximum Allowable Backlight Rating 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 uminaire back hemisphere is 0.5 - 1 MH from property line В3 Luminaire back hemisphere is less than 0.5 MH from property line B0Maximum Allowable Uplight Rating For area lighting⁴ U0 U0 For all other outdoor lighting, including decorative luminaires U1 U2 U3 U4 Maximum Allowable Glare Rating5 Luminaire greater than 2 MH from property line G1 G3 G2 G4 uminaire front hemisphere is 1 - 2 MH from property line G1 G2 G1 Luminaire front hemisphere is 0.5 - 1 MH from property line G0 G1 G1 Luminaire back hemisphere is less than 0.5 MH from property line

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 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 section.

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

SECTION 5.303 INDOOR WATER USE

rating shall be met.

5.303.1 Meters. Separate submeters or metering devices shall be installed for the uses described in Sections 5.303.1.1 and 5.303.1.2.

5.303.1.1 New buildings or additions in excess of 50,000 square feet. Separate submeters shall be installed as fol-

1. For each individual leased, rented, or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty

2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:

a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).

b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). c. Steam and hot-water boilers with energy input

more than 500,000 Btu/h (147 kW). **5.303.1.2 Excess consumption.** A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to con-

sume more than 1,000 gal/day. **5.303.2** Reserved.

salon or barber shop.

5.303.3 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following: **5.303.3.1 Water closets.** The effective flush volume of all

water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type Toilets. **Note:** The effective flush volume of dual flush toilets is

defined as the composite, average flush volume of two reduced flushes and one full flush. 5.303.3.2 Urinals.

5.303.3.2.1 Wall-mounted urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

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

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

Specification for Showerheads. 5.303.3.3.2 Multiple showerheads serving one **shower.** When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower out-

Note: A hand-held shower shall be considered a showerhead.

5.303.3.3.3 Showerheads. [DSA-SS] **5.303.3.3.1 Single showerhead.** Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one **shower.** When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a 5.304.5 Graywater or rainwater use in landscape areas. single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allow For projects using treated or untreated graywater or rainwater captured on site, any lot or parcel within the project that has 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 Faucets and fountains.

let to be in operation at a time.

5.303.3.4.1 Nonresidential lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle. 5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maxi-

mum flow rate of not more than 0.20 gallons per cycle/

20 [rim space (inches) at 60 psi]. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduc-

5.303.4 Commercial kitchen equipment.

5.303.4.1 Food waste disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/noload) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.

Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installa-

5.303.5 Areas of addition or alteration. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Sections 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California *Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304

OUTDOOR WATER USE 5.304.1 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 Regulations. 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 shall apply:

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 Resources (DWR) per Government Code Section 65595 (c).

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. Reha-

bilitated landscape projects 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 com-

2. The California Department of Water Resources Model

5.304.4 Outdoor water use in landscape areas of 2,500 square feet or less. Any project with an aggregate landscape area of 2,500 square feet or less may comply with the performance requirements of MWELO or conform to the prescriptive compliance measures contained in MWELO's Appendix

ply with Section 5.304.2, Item 1 or 2.

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 Ordi-

nance, definitions and supporting documents are

less than 2,500 square feet of landscape and meets the lot or

parcel's landscape water requirement (Estimated Total Water

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 **IDSA-SS1.** For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO. 5.304.6.1 Newly constructed landscapes. [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.

SECTION 5.305 WATER REUSE SYSTEMS

5.305.1 Recycled water supply systems. Recycled water supply systems shall be installed in accordance with Sections 5.305.1.1, 5.305.1.2, and the California Plumbing Code.

5.305.1.1 Outdoor recycled water supply systems. Al newly constructed nonresidential developments, where disinfected tertiary recycled water is available from a municipal source to a construction site, shall be provided with both a potable water supply system and a recycled water supply system. The recycled water supply system shall allow the use of reclaimed (recycled) water for aboveground and subsurface irrigation to all landscape irrigation systems.

For the purposes of Section 5.305.1.1, when a recycled water supply pipe is located within 300 feet from a construction site boundary, it shall be considered that reclaimed (recycled) water is available from a municipal

source. Exceptions

1. Service areas in which the only reclaimed (recycled) water is used for potable purposes, or in which net nonpotable deliveries are anticipated to remain level or decrease as a result of the potable reuse project.

2. Where access to disinfected tertiary recycled water is not feasible and/or cost-efficient, a determined by the authority having jurisdiction in consultation with the recycled water purveyor. **Note**: A city, county, or city and county, in

consultation with the recycled water purveyor, may further reduce the area for the mandate to install recycled water supply systems if the recycled water purveyor is unable to accommodate new services or unable to provide uninterruptable service. 3. A potable water supply system is not required for

system is supplied with recycled water at the time of final inspection. 4. Potable water may be used with the recycled water supply system on a temporary basis, as allowed by the authority having jurisdiction in

landscape irrigation if the landscape irrigation

consultation with the recycled water purveyor. 5.305.1.2 Technical requirements for outdoor recycled water supply systems. Recycled water supply systems for outdoor applications shall meet the requirements of this code, and the California Code of Regulations, Title 17 Division 1, Chapter 5, Subchapter 1; Title 22, Division 4,

Division 5.4 - MATERIAL CONSERVATION AND

Chapter 3; and Title 23, Division 2, Chapter 2.7, as appli-

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 build-

ing commissioning or testing and adjusting. **SECTION 5.402**

DEFINITIONS 5.402.1 Definitions. The following terms are defined in Chapter 2. ADJUST.

BUILDING COMMISSIONING.

RESOURCE EFFICIENCY

BALANCE.

TEST.

ORGANIC WASTE.

SECTION 5.403

SECTION 5.404 EFFICIENT FRAMING TECHNIQUES

(Reserved)

SECTION 5.405

MATERIAL SOURCES

(Reserved)

FOUNDATION SYSTEMS

(Reserved)

SECTION 5.406 ENHANCED DURABILITY

AND REDUCED MAINTENANCE

(Reserved)

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 mea-

sures by the following methods. **5.407.2.1 Sprinklers.** Design and maintain landscape irri-

gation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water 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:

1. An installed awning at least 4 feet in depth. 2. The door is protected by a roof overhang at least

3. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protec-

4 feet in depth.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

SECTION 5.408

CONSTRUCTION WASTE REDUCTION,

DISPOSAL AND RECYCLING

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.

2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).

3. Identifies diversion facilities where construction and

demolition waste material collected will be taken.

4. Specifies that the amount of construction and demo-

lition 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 verifiable 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:

1. Excavated soil and land-clearing debris.

2. Alternate waste reduction methods developed by

working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facili-

5.408.1.3 Waste stream reduction alternative. The com-

ties and markets.

bined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency. **5.408.1.4 Documentation.** Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1 through 5.408.1.3. The waste

management plan shall be updated as necessary and shall

be accessible during construction for examination by the

enforcing agency. 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at http://www.bsc.ca.gov/Home/CAL-

Green.aspx may be used to assist in documenting

compliance with the waste management plan.

2. Mixed construction and demolition debris (C&D)

processors can be located at the California

Department of Resources Recycling and Recovery (CalRecycle). **5.408.2** Universal waste. [A] Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials

Note: Refer to the Universal Waste Rule link at: http:// www.dtsc.ca.gov/LawsRegsPolicies/Regs/upload/OEAR-A_REGS_UWR_FinalText.pdf 5.408.3 Excavated soil and land clearing debris. 100 per-

shall be included in the construction documents.

soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed. **Exception:** Reuse, either on-or off-site, of vegetation or

soil contaminated by disease or pest infestation.

cent of trees, stumps, rocks and associated vegetation and

sioner and follow its direction for recycling or disposal of the material. (www.cdfa.ca.gov/exec/ county/county_contacts.html) 2. For a map of known pest and/or disease quarantine

Food and Agriculture. (www.cdfa.ca.gov) SECTION 5.409 LIFE CYCLE ASSESSMENT

(Reserved)

SECTION 5.410 **BUILDING MAINTENANCE AND OPERATION** 5.410.1 Recycling by occupants. Provide readily accessible areas that serve the entire building and are identified for the

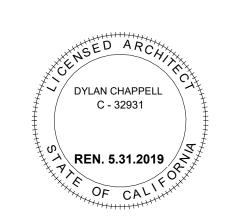
lawfully enacted local recycling ordinance, if more restrictive. CODE **Exception:** Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor



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REVISION:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commiszones, consult with the California Department of

No. Description Date

depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated CAL GREEN cardboard, glass, plastics, organic waste, and metals or meet a

3:50:00 PM

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

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

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

Commissioning requirements shall include:

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

2. Basis of design.

shall apply.

- 3. Commissioning measures shown in the construction documents.
- 4. Commissioning plan.
- 5. Functional performance testing.
- 6. Documentation and training. 7. Commissioning report.
- **Exceptions:**
- 1. Unconditioned warehouses of any size.
- 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
- 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
- 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

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

Informational Notes:

- 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance
- 2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.

5.410.2.1 Owner's or Owner representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins.

- This documentation shall include the following: 1. Environmental and sustainability goals.
- 2. Building sustainable goals.
- 3. Indoor environmental quality requirements.
- 4. Project program, including facility functions and hours of operation, and need for after hours opera-
- 5. Equipment and systems expectations. 6. Building occupant and operation and maintenance

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

- following systems: 1. Renewable energy systems.
- 2. Landscape irrigation systems.
- 3. Water reuse systems.

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

2. Commissioning goals.

- 1. General project information.
- and components shall include: a. An explanation of the original design intent.

3. Systems to be commissioned. Plans to test systems

- b. Equipment and systems to be tested, including the extent of tests.
- c. Functions to be tested.
- d. Conditions under which the test shall be performed.
- e. Measurable criteria for acceptable performance. 4. Commissioning team information.
- 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

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

5.410.2.5 Documentation and training. [N] A systems manual and systems operations training are required, including Occupational Safety and Health Act (OSHA) uirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.

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

- 1. Site information, including facility description, history and current requirements.
- 2. Site contact information.
- 3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
- 4. Major systems.
- 5. Site equipment inventory and maintenance notes. 6. A copy of verifications required by the enforcing
- agency or this code. 7. Other resources and documentation, if applicable.

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

- 1. System/equipment overview (what it is, what it does and with what other systems and/or equip-
- ment it interfaces). 2. Review and demonstration of servicing/preven-
- 3. Review of the information in the systems manual. 4. Review of the record drawings on the system/

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

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

5.410.4.1 (Reserved)

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

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

- 1. Renewable energy systems.
- 2. Landscape irrigation systems.
- 3. Water reuse systems.

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

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

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

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

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

Division 5.5 – ENVIRONMENTAL QUALITY

SECTION 5.501

GENERAL **5.501.1 Scope.** The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and wellbeing of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 Definitions. The following terms are defined in Chapter 2. ARTERIAL HIGHWAY. A-WEIGHTED SOUND LEVEL (dBA).

1 BTU/HOUR. COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). COMPOSITE WOOD PRODUCTS.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). DECIBEL (dB). ENERGY EQUIVALENT (NOISE) LEVEL (Leg).

EXPRESSWAY. FREEWAY.

GLOBAL WARMING POTENTIAL (GWP). GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). HIGH-GWP REFRIGERANT.

LONG RADIUS ELBOW. LOW-GWP REFRIGERANT. MERV.

VOC.

MAXIMUM INCREMENTAL REACTIVITY (MIR). PRODUCT-WEIGHTED MIR (PWMIR).

REACTIVE ORGANIC COMPOUND (ROC). SCHRADER ACCESS VALVES. SHORT RADIUS ELBOW. SUPERMARKET.

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. Woodstove 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 percent based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system. **5.504.4 Finish material pollutant control.** Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. 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 SCAOMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.

TABLE 5.504.4.1

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesive 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 and trim adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30

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, http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF.

TABLE 5.504.4.2

Fiberglass

SEALANTS	CURRENT VOC LIMIT
Architectural	250
Marine deck	760
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
SEALANT PRIMERS	
Architectural Nonporous Porous	250 775
Modified bituminous	500
Marine deck	760
Other	750

Note: For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management

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

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

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

- 1. Manufacturer's product specification
- 2. Field verification of on-site product containers

TABLE 5.504.4.3 VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{2, 3} Grams of VOC per Liter of Coating,

CURENT LIMIT

Less Water and Less Exempt Compounds

COATING CATEGORY

Flat coatings	50
Nonflat coatings	100
Nonflat-high gloss coatings	150
SPECIALTY COATINGS	
Aluminum roof coatings	400
Basement specialty coatings	400
Bituminous roof coatings	50
Bituminous roof primers	350
Bond breakers	350
Concrete curing compounds	350
Concrete/masonry sealers	100
Driveway sealers	50
Dry fog coatings	150
Faux finishing coatings	350
Fire resistive coatings	350
Floor coatings	100
Form-release compounds	250
Graphic arts coatings (sign paints)	500
High temperature coatings	420
Industrial maintenance coatings	250
Low solids coatings ¹	120
Magnesite cement coatings	450
Mastic texture coatings	100
Metallic pigmented coatings	500
Multicolor coatings	250
Pretreatment wash primers	420
Primers, sealers, and undercoaters	100
Reactive penetrating sealers	350
Recycled coatings	250
Roof coatings	50
Rust preventative coatings	250
Shellacs	10.5000
Clear Opaque	730 550
Specialty primers, sealers and undercoaters	100
Stains	250
Stone consolidants	450
Swimming pool coatings	340
Traffic marking coatings	100
Tub and tile refinish coatings	420
Waterproofing membranes	250
Wood coatings	275
Wood coatings Wood preservatives	350
Zinc-rich primers	340

2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.

3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources

5.504.4.4 Carpet systems. All carpet installed in the building interior shall meet at least one of the following

- testing and product requirements: 1. Carpet and Rug Institute's Green Label Plus Pro-
- 2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification
- 3. NSF/ANSI 140 at the Gold level or higher;
- 4. Scientific Certifications Systems Sustainable Choice; or 5. Compliant with the Collaborative for High Perfor-
- mance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 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 require-

ments of the Carpet and Rug Institute's Green Label **5.504.4.4.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.1.

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

5.504.4.5.1 Early compliance. Reserved. **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:
- 1. Product certifications and specifications.
- 2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
- PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.

4. Exterior grade products marked as meeting the

5. Other methods acceptable to the enforcing

TABLE 5.504.4.5 FORMALDEHYDE LIMITS ¹ Maximum Formaldehyde Emissions in Parts per Million					
PRODUCT	CURRENT LIMIT				
Hardwood plywood veneer core	0.05				
Hardwood plywood composite core	0.05				
Particleboard	0.09				
Medium density fiberboard	0.11				
Thin medium density fiberboard ²	0.13				

1. Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E1333. 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 inch (8 mm). **5.504.4.6 Resilient flooring systems.** For 80 percent of

flooring shall meet at least one of the following: 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program;

floor area receiving resilient flooring, installed resilient

- 2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010;
- 3. Compliant with the Collaborative for High Performance Schools California (CA-CHPS) Criteria Interpretation for EQ 7.0 and EQ 7.1 (formerly EQ 2.2) dated July 2012 and listed in the CHPS High Performance Product Database: or

4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools 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:**

1. An ASHRAE 10-percent to 15-percent 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.

2. Existing mechanical equipment. **5.504.5.3.1** Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rat-

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 this

SECTION 5.506 **INDOOR AIR QUALITY**

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

5.506.2 Carbon dioxide (CO2) monitoring. For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120.1(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 E90 and ASTM E413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E1332, 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 affected by exterior 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 shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport. **Exceptions:**

1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan. 2. L_{dn} or CNEL for other airports and heliports

for which a land use plan has not been devel-

oped shall be determined by the local general plan noise element. 2. Within the 65 CNEL or L_{dn} 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_{aa}-1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40

(or OITC 30). **5.507.4.2 Performance method.** For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roofceiling 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 (L₂₀-1Hr) of 50 dBA in occu-

pied areas during any hour of operation. **5.507.4.2.1 Site features.** Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mit-

5.507.4.2.2 Documentation of compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-

igate sound migration to the interior.

stc_icc_ratings.pdf.

ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40. **Note:** Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: http://www.toolbase.org/PDF/CaseStudies/

SECTION 5.508 OUTDOOR AIR QUALITY

5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

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

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

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

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

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

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than ¹/₄ inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fourth-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

ened in accordance with manufacturer's recommen-

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 tight-

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

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

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,

the relief valve. **5.508.2.2.2 Access valves.** Only Schrader access valves

pressure transducer or other device shall be installed

in the space between the rupture disc and the relief

valve inlet to indicate a disc rupture or discharge of

with a brass or steel body are permitted for use. **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.

shall have a neoprene O-ring in place.

5.508.2.2.2.1 Chain tethers. Chain tethers to fit over the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not

5.508.2.2.2.2 Seal caps. If designed for it, the cap

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

corrosion from these substances. **5.508.2.3.1** Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maxi-

mize energy efficiency. **5.508.2.4 Refrigerant receivers.** Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the

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 mini-5.508.2.5.2 Leaks. Check the system for leaks, repair

any leaks, and retest for pressure using the same gauge.

5.508.2.5 Pressure testing. The system shall be pressure

tested during installation prior to evacuation and charging.

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

pressure testing and prior to charging. **5.508.2.6.1 First vacuum.** Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for

30 minutes.

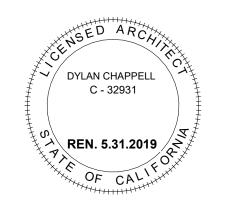
5.508.2.6 Evacuation. The system shall be evacuated after

uum to a minimum of 500 microns and hold for 30 min-**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

5.508.2.6.2 Second vacuum. Pull a second system vac-

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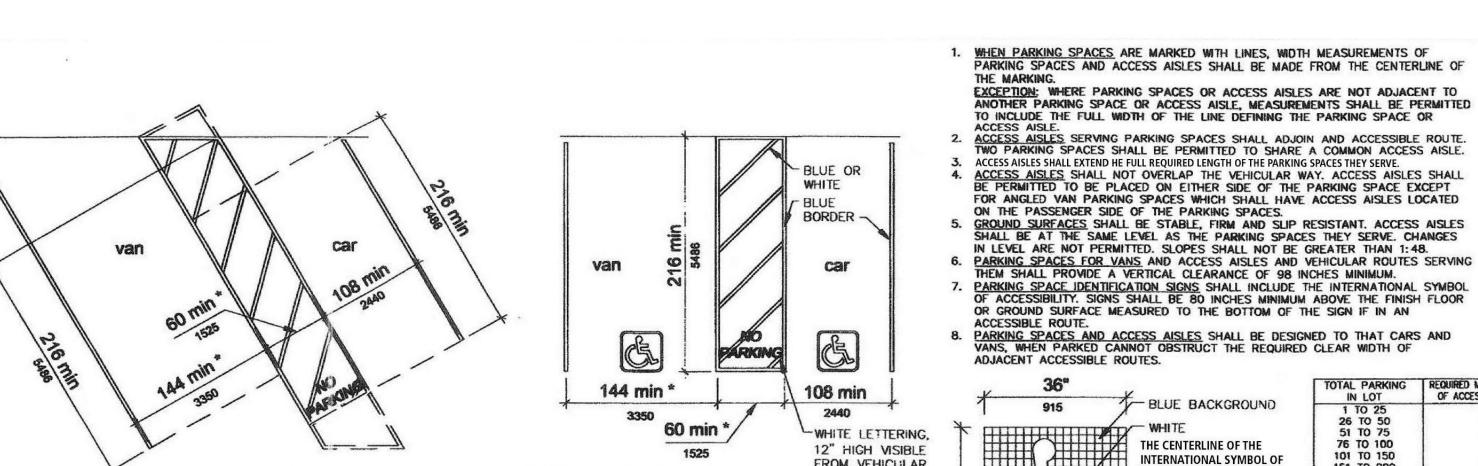
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BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8 INCH MINIMUM AND 1/2 INCH MAXIMUM. EXCEPTION: BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE DYLAN CHAPPELL C - 32931 REN. 5.31.2019

without the written permission of Dylan Chappell

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DOMINANT DIRECTION

LONG DIMENSION -

PERPENDICULAR TO

DOMINANT DIRECTION OF

OF TRAVEL

TRAVEL

SYMBOL.

ON DARK

OR DARK

ON LIGHT

COLOR

-MOUNTED

WITHIN 1

INCH OF

VERTICAL

CENTER-

LINE OF

DOOR

SIDE OF

DOOR

-STRIKE

CHARACTER HEIGHT

VIEWING DISTANCE ABOVE 6 FEET

VIEWING DISTANCE ABOVE 15 FEET

3 INCH , PLUS 1/8 INCH PER FOOT OF

VIEWING DISTANCE ABOVE 21 FEET

2 INCHES

3 INCHES

6 FEET AND GREATER 5/8 INCH , PLUS 1/8 INCH PER FOOT OF

15 FEET AND GREATER 2 INCH , PLUS 1/8 INCH PER FOOT OF

00000

INTERNATIONAL SYMBOL OF TTY

INTERNATIONAL

FOR HEARING LOSS

* FLOOR-LEVEL EXIT SIGNS COMPLYING WITH CHAPTER 10 SHALL

NOT BE REQUIRED TO COMPLY WITH MOUNTING HEIGHTS SHOWN

VISUAL CHARACTER HEIGHT *

HORIZONTAL

VIEWING DISTANCE

LESS THAN 6 FEET

LESS THAN 21 FEET

21 FEET AND GREATER

INTERNATIONA SYMBOL OF ACCESSIBILITY

VOLUME CONTROL

TELEPHONE

HEIGHT ABOVE FLOOR TO BASE

LINE OF CHARACTER

40 INCHES TO LESS THAN OR

GREATER THAN 70 INCHES TO LESS THAN LESS THAN 15 FEET

EQUAL TO 70 INCHES

OR EQUAL TO 120 INCHES

GREATER THAN 120 INCHES

tactile characters

BRAILLE DIMENSIONS

LOCATION OF TACTILE SIGNS AT DOORS

MEASUREMENT

DOT BASE DIAMETER

DISTANCE BETWEEN TWO DOTS IN THE

DISTANCE BETWEEN CORRESPONDING DOTS

IN ADJACENT CELLS

DOT HEIGHT

DISTANCE BETWEEN CORRESPONDING DOTS

FROM ONE CELL DIRECTLY EIELOW

HEIGHT OF RAISED CHARACTERS

+ " " # "

POSITION OF BRAILLE SHALL BE CENTERED OR FLUSH LEFT

AREA OF

REFUGE

MEN not in

000

PICTOGRAM FIELD

MINIMUM IN INCHES

MAXIMUM IN INCHES

0.063 (1.6MM)

0.100 (2.5MM)

0.300(7.6MM)

0.025 (0.6MM)

0.037 (0.9MM)

0.395 (10MM)

0.400 (10.2MM)

0.059 (1.5MM)

1/4" THICK

SIGN. LIGHT X

TOILET

FROM VEHICULAR * EXCEPTION 108" VAN STALL WITH 96" AISLE

MAX. OF 6" FROM THE

PROPORTIONS SURFACE IDENTIFICATION

ACCESSIBILITY SHALL BE A CENTERLINE OF THE PARKING 501 TO 1000 SPACE, ITS SIDES PARALLEL TO 1001 AND OVER THE LENGTH OF THE PARKING SPACE, AND ITS LOWER CORNER AT, OR LOWER SIDE ALIGNED WITH, THE END OF THE PARKING

12. BRAILLE SHALL BE POSITIONED BELOW THE CORRESPONDING TEXT IN A HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED., IF TEXT IS MULTI-LINED, BRAILLE SHALL BE PLACED

14. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE

DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE

DOUBLE DOORS, SIGN SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE

POSITION AND 45 DEGREES OPEN POSITION. WHERE PERMANENT IDENTIFICATION SIGNAGE IS PROVIDED FOR ROOMS AND SPACES THEY SHALL BE LOCATED ONT HE APPROACH

SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF

OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED

SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE. SIGNS THAT IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THE

5. CHARACTERS AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. APPROPRIATE ENFORCEMENT AGENCY MAY APPROVE OTHER COLORS TO COMPLEMENT DECOR OR

SEPARATED 3/16 INCH MINIMUM AND SHALL BE LOCATED EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS.

ROOM OR SPACE. SIGNS THE IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE ROOM OR SPACE.

13. TACTILE CHARACTERS FOR ELEVATORS SHALL NOT BE REQUIRED TO BE MOUNTED BETWEEN 48 INCHES AND 60 INCHES.

UNIQUE DESIGN. THE SYMBOL CONTRAST SHALL BE LIGHT ON DORK OR DARK ON LIGHT

16. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH.

DESIGNATE FOR "VAN ACCESSIBLE" WHEN APPROPRIATE. OF ACCESSIBLE SPACES LETTERING PROVIDE -ADDRESS & TELEPHONE #. PERCENT OF TOTAL 20 PLUS 1 FOR EACH VAN SPACES: FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, AT LEASE ONE SHALL BE A VAN-ACCESSIBLE PARKING SPACE.

STEEL SIGN POST ANCHOR UNAUTHORIZED VEHICLI
PARKED IN DESIGNATE
ACCESSIBLE SPACES
NOT DISSOLATING
DISSOLATING
OF SPECIAL JUENES
PLATES ISSUED FOR
PERSONS WITH JISABULI
WILL BE TOWED AWAY
OWNER'S EXPENSE
TOWED VEHICLES MAY
RECLAMED AT WHITE REFLECTIVE BACKGROUND WITH I" MIN. BLACK OR BY TELEPHONING SEE PROTRUDING OBJECTS FOR MOUNTING HEIGHT IF IN AN ACCESSIBLE PATH. OTHERWISE MOUNT BOTTOM OF SIGN AT 60"

ACCESSIBILITY SIGNAGE

INTERNATIONAL SIGN OF

COMMUNICATION ELEMENTS

AND FEATURES DETAIL FOR

SIGN TO BE CENTERED AT

THE INTERIOR END OF

AREA OF SIGN TO BE A

MINIMUM OF 70 SQUARE

PARKING SPACE.

ACCESSIBILITY, SEE

MORE INFORMATION

Mminimume VAN ACCESSIBLE SIGN - 2" STEEL POST

VAN

1/2" = 1'-0"

REE STANDING

ENTRANCE SIGN CBC REV 1 1/2" = 1'-0" **U 3**

PARKING STALLS ACCESSIBLE PARKING STALLS

1:5 AND 1:10. THE MINIMUM CHARACTER HEIGHT SHALL BE 5/8" MIN. AND 2" MAX. AND SANS-SHERIF UPPER CASE. GRADE 2 BRAILLE DOTS SHALL BE 1/10" ON CENTER IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS, MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE THE DOOR WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS,

CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MIN. AND HAVE A WIDTH TO HEIGHT

RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH TO HEIGHT RATIO OF BETWEEN

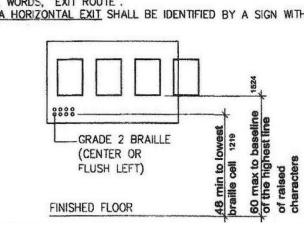
SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY TO THE RIGHT WHERE REQUIRED: TACTILE EXIT SIGNS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS: EACH GRADE-LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT WITH

EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE:

"EXIT STAIRS DOWN" "EXIT RAMP DOWN" "EXIT STAIRS UP" "EXIST RAMP UP" EACH EXIT DOOR THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEAN.

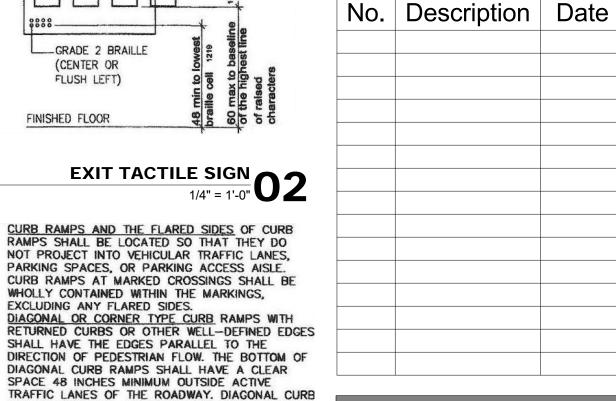
OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE". EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR

HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE". EACH EXIT DOOR THROUGH A HORIZONTAL EXIT SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS, "TO EXIT".



1/4" = 1'-0"

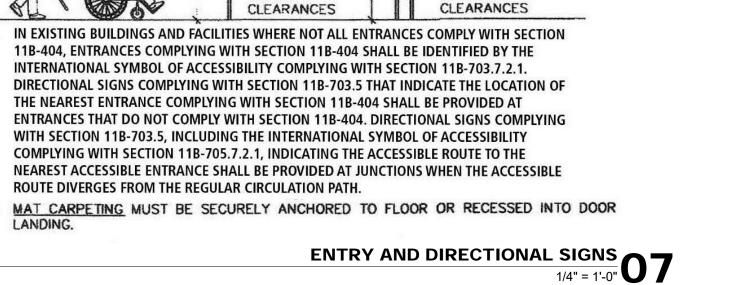
CURB RAMPS
1/4" = 1'-0"



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ACCESSIBILITY

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PROTRUDIN OBJECTS

FOR REQUIRED

PROTRUDING

REFUGE

HEIGHT OF TACTILE CHARACTERS ABOVE

FINISHED FLOOR OR GROUND

full length of vehicle

pull-up space

PASSENGER LOADING ZONE

PASSENGER LADING ZONES SHALL ADJOIN A ACCESSIBLE ROUTE, BE ADJACENT

ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM.

AISLES SHALL BE AT THE SAME LEVEL AS THE PARKING SPACES THEY SERVE.

VEHICLE PULL-UP SPACE, ACCESS AISLES SERVING THEM, AND A VEHICULAR

SAN-SERIF UPPER CASE 3" TALL

PROTRUDING

/ OBJECTS

REQUIRED

BACKGROUND.

BLACK CHARACTERS ON WHITE

VERTICAL CLEARANCE OF 114 INCHES MINIMUM.

PICTOGRAM NOTE:
PICTOGRAM SYMBOLS SHALL BE

ACCOMPANIED BY THE EQUIVALENT

VERBAL DESCRIPTION PLACED DIRECTLY

BELOW THE PICTOGRAM. THE BORDER

DIMENSION OF THE PICTOGRAM SHALL

BE MIN. 6" HIGH.

CORRESPONDING GRADE II-

BRAILLE ("CALIFORNIA

BRAILLE") LOCATED FAR

LEFT OR CENTERED ON TEXT

ROUTE FROM AND ENTRANCE TO THE PASSENGER LOADING ZONE, AND FROM THE PASSENGER LOADING ZONE TO A VEHICULAR EXIT SHALL PROVIDE A

CHANGES IN LEVEL ARE NOT PERMITTED. SLOPES SHALL NOT BE GREATER THAN

GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT, ACCESS

AND PARALLEL TO THE VEHICLE PULL-UP SPACE, AND SHALL NOT OVERLAP

in the same cell

blank cell space

between words

ACCESS AISLE

DIRECTLY TO AN

ACCESSIBLE ROUTE

PASSENGER LOADING ZONE
1/4" = 1'-0"

1. SIGNAGE SHALL BE INSTALLED ON

LATCH SIDE OF DOOR, OR IF NO

SPACE ON THE NEAREST WALL

PREFERABLE TO THE RIGHT. DOUBLE

DOORS WITH TWO ACTIVE LEAFS, THE

SIGN SHALL BE LOCATED TO THE

THAT A PERSON CAN APPROACH

PROTUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

WITHIN 3" W/O ENCOUNTERING

3. SIGNAGE SHALL HAVE A NON-GLARE

4. SIGNAGE SHALL HAVE A WIDTH - TO -

5. CHARACTER STROKE WIDTH TO

HEIGHT RATIO BETWEEN 1:5 & 1:10.

BRAILLE w/ DOTS 1/10" O.C. & 2/10"

SPACE BETWEEN CELLS RAISED 1/40".

7. SIGNAGE SHALL HAVE VERBIAGE PER

"EXIT" - AT GROUND FLOOR DOORS

"EXIT STAIR DOWN" - AT STAIRS TO

GROUND FLOOR EXIT "EXIT ROUTE" - AT INTERIOR ROOM OR AREA TO A CORRIDOR OR

8. SIGNAGE SHALL BE LOCATED 48

FLOOR OR GROUND SURFACE,

FLOOR OR GROUND SURFACE,

THE HIGHEST LINE OF RAISED

INCHES MINIMUM ABOVE THE FINISH

MEASURED FROM THE BASELINE OF

THE LOWEST LINE OF BRAILLE AND 60

MEASURED FROM THE BASELINE OF

TACTILE SIGN C

INCHES MAXIMUM ABOVE THE FINISH

HALLWAY

6. SIGNAGE SHALL CONTAIN GRADE 2

HEIGHT RATIO BETWEEN 3:5 & 1:1.

BACKROUND.

CBC 1011.1:

FINISH WITH A CONTRASTING

RIGHT OF THE RIGHT HAND DOOR.

2. SIGNAGE SHALL BE LOCATED SC

IACIJE SJONAGE KEQUIKEMENIS

CONNECTS

distance between

in adjacent cells

distance between do

in the same cell

corresponding dots

from one cell

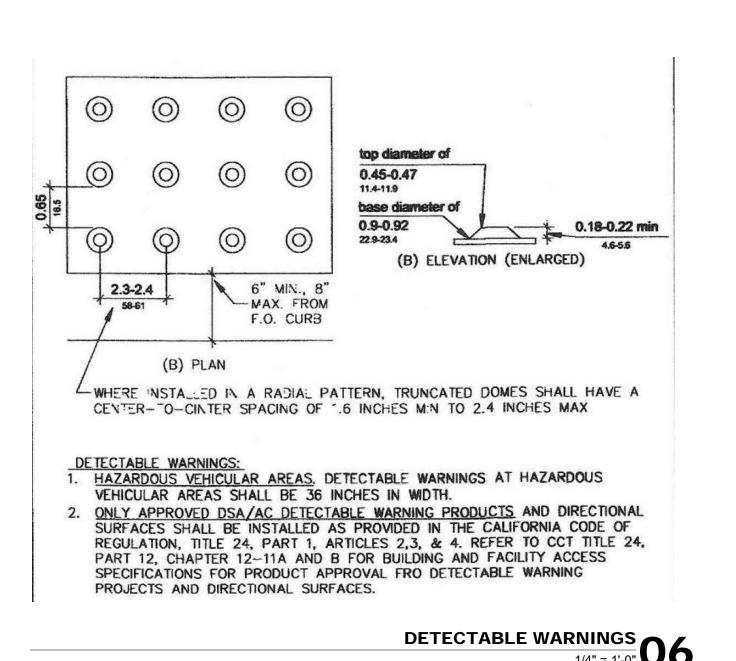
directly below

MEASUREMENTS

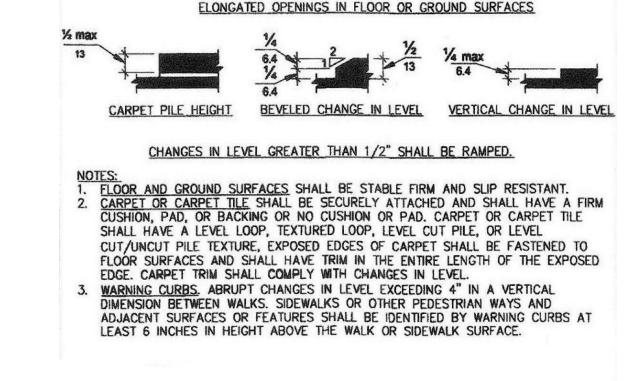
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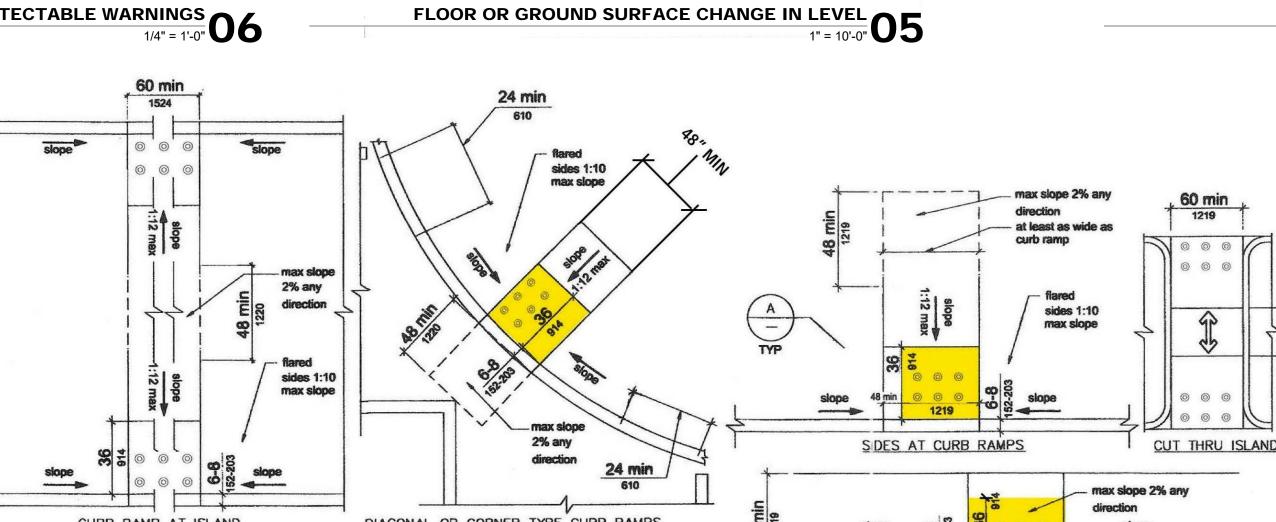
THE VEHICULAR WAY

CURB LINE



18 CURB RAMPS





11B-406.5.12 curb ramps and blended transitions shall have detectable warnings complying with Section 11B-705

NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLE. WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. SHALL HAVE THE EDGES PARALLEL TO THE SPACE 48 INCHES MINIMUM OUTSIDE ACTIVE RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES MINIMUM CLEAR SPACE WITHIN THE MARKINGS, DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THI MARKED CROSSING. CUT THRU ISLAND WIDTH SHALL BE AT LEASE AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING. THE SLOPE OF THE LANDING IN ALL. DIRECTION SHALL BE 1:48 MAXIMUM. CURB RAMP AT ISLAND DIAGONAL OR CORNER TYPE CURB RAMPS GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMPS SHALL BE PERPENDICULAR TO HE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING SPACES PARALLEL CURB RAMPS

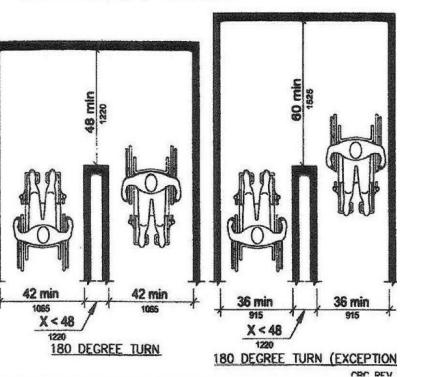
COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20 THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL. CURB RAMPS FLARES SHALL NOT BE STEEPER LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 48 INCHES MINIMUM. THE LANDING CLEAR

MULTILEVEL BUILDINGS: AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH ACCESSIBLE LEVEL, INCLUDING MEZZANINES, IN MULTILEVEL BUILDINGS AND FACILITIES. MULTI-STORIED OFFICE BUILDINGS (OTHER THAN PROFESSIONAL OFFICE OF A HEALTH CARE PROVIDER) AND PASSENGER VEHICLE SERVICE STATIONS LESS THAN 3,000 SQUARE FEET PER STORY. ANY OTHER PRIVATELY FUNDED MULTI STORIED BUILDING THAT IS NOT A SHOPPING CENTER, SHOPPING MALL OR THE PROFESSIONAL OFFICE OF A HEALTH CARE PROVIDER OR A TERMINAL, DEPOT OR OTHER STATIONS USED FOR SPECIFIED PUBLIC TRANSPORTATION, OR AN AIRPORT PASSENGER TERMINAL AN THAT IS LESS THAN THREE STORIES HIGH OR LESS THAN 3,000 SQUARE FEET PER STORY IF A REASONABLE PORTION OF ALL FACILITIES AND ACCOMMODATIONS NORMALLY SOUGHT AND USED BY THE PUBLIC IN SUCH A BUILDING ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES.

COMPLY WITH ACCESSIBLE ROUTES, ACCESSIBLE MEANS OF EGRESS AND AUDIBLE ALARM COVERAGE.

THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE 44 INCHES MINIMUM.

2. THE CLEAR WIDTH OF SIDEWALKS SHALL BE 48 INCHES 5. THE CLEAR WIDTH OF AISLE SHALL BE 36 INCHES IF SERVING ELEMENTS ON ONLY ONE SIDE, AND 44 INCHES MINIMUM IF SERVING ELEMENTS ON BOTH SIDES.



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550 Maple Stree Suite A

805.205.4760

Ca. 93013



3

ACCESSIBILITY ROUTES

1/4" = 1'-0"

DEPTH AS

COUNTER

34" MAXIMUM

DINING AND WORK SURFACES

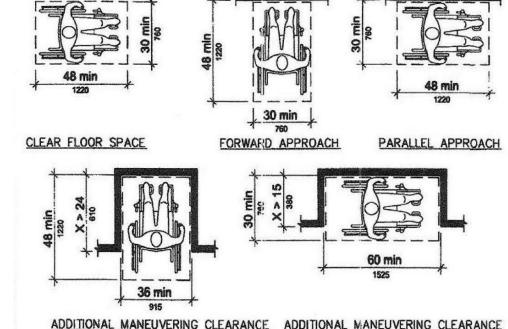
28" MINIMUM

34" MAXIMUM

CLEAR FLOOR SPACE AND DIMENSIONS

- 1. CLEAR FLOOR SPACE POSITIONED FOR A PARALLEL APPROACH SHALL BE 2. BENCHES ALLOWABLE STRESS SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE SEAT, FASTENER MOUNDING DEVICE, OR SUPPORTING STRUCTURE.
- WHERE PROVIDED IN WET LOCATIONS THE SURFACE OF THE SEAT SHALL BE SLIP RESISTANT AND SHALL NOT ACCUMULATE WATER. 4. BENCH SUPPORT SHALL PROVIDE BACK SUPPORT OR SHALL BE AFFIXED TO A

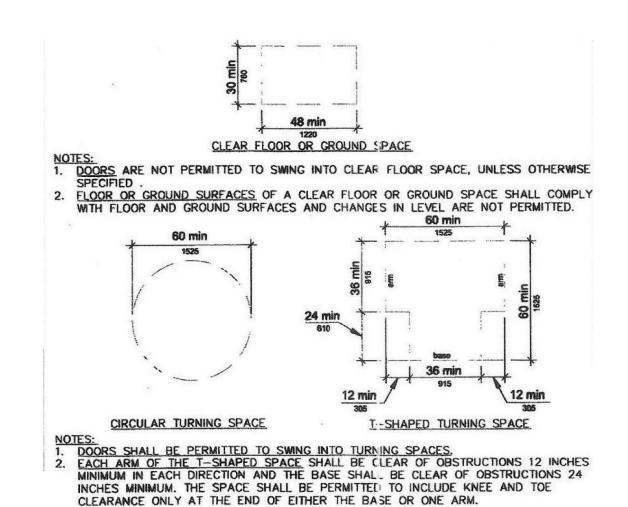
ACCESSIBILITY BENCHES IN DRESSING, LOCKER, & FITTING ROOMS 🖪 🥎

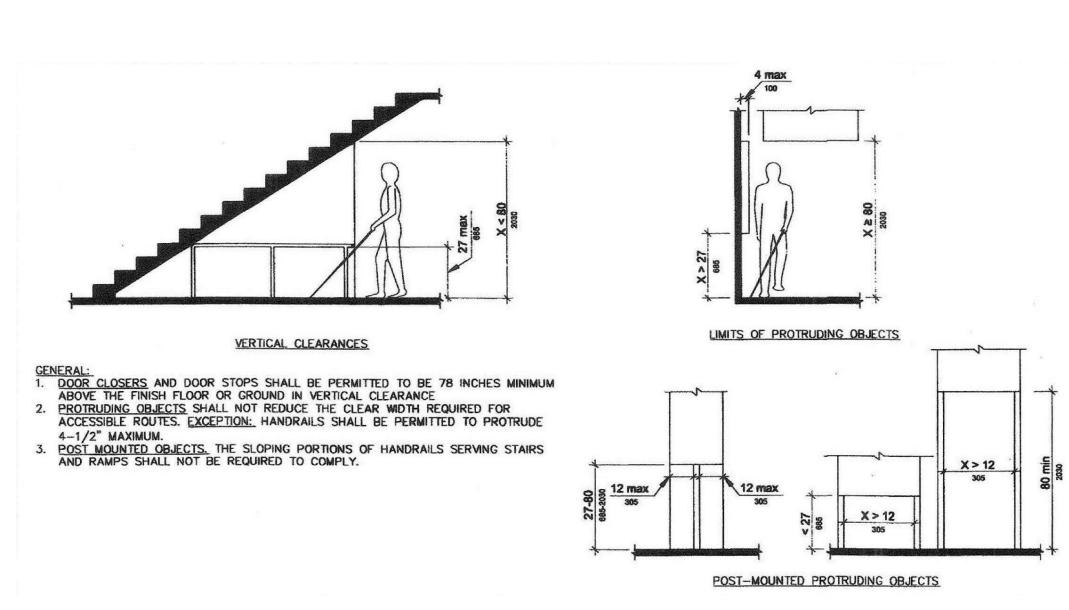


ADDITIONAL MANEUVERING CLEARANCE FOR FORWARD APPROACH IN ALCOVE FOR PARALLEL APPROACH IN ALCOVE FLOOR SURFACES OF A CLEAR FLOOR SPACE SHALL HAVE A SLOPE NOT STEEPER THAT 1:48 AND SHALL COMPLY WITH FLOOR SURFACES. . CLEAR FLOOR SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE UNLESS OTHERWISE SPECIFIED.

 THE CLEAR FLOOR SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT, UNLESS OTHERWISE SPECIFIED. 4. ONE FULL. UNOBSTRUCTED SIDE OF THE CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE OR ADJOIN ANOTHER CLEAR FLOOR SPACE. 5. IF A CLEAR FLOOR SPACE IS IN AN ALCOVE OR OTHERWISE CONFINED ON ALL OR PART OF THREE SIDES. ADDITIONAL MANEUVERING CLEARANCES COMPLYING WITH MANEUVERING CLEARANCE IN ALCOVE.

CLEAR FLOOR OR GROUND SPACE





ELEMENTS.

OR THE CONSUMPTION OF FOOD OR DRINK,

SALES AND SERVICE

DINING AND WORK SURFACES

1/4" = 1'-0"

AT LEASE 5 PERCENT OF THE SEATING SPACES AND STANDING SPACES AT THE DINING

SURFACES SHALL COMPLY. IN ADDITION, WHERE WORK SURFACES ARE PROVIDED FOR

DINING SURFACES AND WORK SURFACES REQUIRED TO COMPLY SHALL BE DISPERSED THROUGHOUT THE SPACE OR FACILITY CONTAINING DINING SURFACES AND WORK

WHERE PROVIDED, CHECK-OUT AISLES, SALES COUNTERS., SERVICE COUNTERS, FOOD SERVICE LINES, QUEUES, AND WAITING LINES SHALL COMPLY

* IN ALTERATIONS WHERE

FORWARD OR PARALLEL

RESULT IN A REDUCTION

APPROACH WOULD

OF THE NUMBER OF

WORK STATIONS THE

COUNTER CAN BE REDUCED TO 24 INCHES

EXISTING COUNTERS AT

USE BY OTHER THAN EMPLOYEES, AT LEASE 5 PERCENT SHALL COMPLY.

PROTRUDING OBJECTS AND VERTICAL CLEARANCES

1/4" = 1'-0"

6

dinning and work surfaces

KNEE AND TOE CLEARANCES 1/4" = 1'-0"

WHERE SPACE BENEATH AN ELEMENT IS INCLUDED AS PART OF CLEAR FLOOR

SPACE BEYOND KNEE AND TOE CLEARANCE SHALL BE PERMITTED BENEATH

SPACE AT AN ELEMENT, CLEARANCE AT AN ELEMENT, OR A TURNING SPACE, THE SPACE SHALL COMPLY WITH KNEE AND TOE CLEARANCE REQUIREMENTS. ADDITIONAL

HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS. 1. AISLE STAIRS AND AISLE RAMPS PROVIDED WITH A HANDRAIL EITHER AT THE SIDE OR WITHIN THE AISLE WIDTH. CURB RAMPS DO NOT REQUIRE HANDRAILS AT DOOR LANDINGS, HANDRAILS ARE NOT REQUIRED WHEN THE RAMP RUN IS LESS THAN INCHES IN THE RISE OR 72 INCHES IN LENGTH. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS OR RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS. 4-61/4 perimeter GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OF SIDES. THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT THEIR LENGTH, WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1 1/2 INCHES MINIMUM BELOW THE BOTTOM OF THE HANDRAIL SURFACE. EXCEPTIONS:

1. WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 1: 20 THE BOTTOMS OF HANDRAIL GRIPING SURFACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THEIR ENTIRE LENGTH WHERE THEY ARE INTEGRAL TO CRASH RAILS OR BUMPER GUARDS. HANDRAIL NON-CIRCULAR CROSS SECTION 2. THE DISTANCE BETWEEN HORIZONTAL PROJECTIONS AND THE BOTTOM FOR THE GRIPPING SURFACE SHALL BE PERMITTED TO BE REDUCED BY 1/8 INCH FOR EACH 1/2 INCH OF ADDITIONAL HANDRAIL PERIMETER DIMENSION THAT EXCEEDS 4 INCHES. HANDRAILS, AND ANY WALL OR OTHER SURFACES ADJACENT TO THEM, SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE ROUNDED. HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS. HANDRAILS SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS. EXTENSIONS SHALL NOT BE REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF SWITCH BACK OR DOGLEG STAIRS AND RAMPS. IN ASSEMBLY AREAS, EXTENSIONS SHALL NOT BE REQUIRED FOR RAMP HANDRAILS IN AISLE SERVING SEATING WHERE THE HANDRAILS ARE DISCONTINUOUS TO PROVIDE ACCESS

TOP AND BOTTOM HANDRAIL EXTENSIONS AT RAMPS TO SEATING AND TO PERMIT CROSSOVERS WITHIN AISLE. 3. IN ALTERATIONS, WHERE THE EXTENSION OF THE HANDRAIL IN THE DIRECTION OF THE STAIR FLIGHT OR RAMP RUN WOULD CREATE A HAZARD, THE EXTENSION OF THE HANDRAIL MAY BE TURNED 90 DEGRESS FROM THE STAIR FLIGHT OR RAMP RUN. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT. 2. IN ALTERATIONS, WHERE THE EXTENSION OF THE HANDRAIL IN THE DIRECTION OF RAMP

WHERE A HIGH FORWARD REACH IS OVER AN ---OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND UNOBSTRUCTED FORWARD BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAT AND SIDE REACH THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. OBSTRUCTED HIGH FORWARD REACH OBSTRUCTED SIDE REACH OBSTRUCTED HIGH SIDE REACH NOTES:

1. A CLEAR FLOOR OR GROUND SPACE SHALL BE PROVIDED OPERABLE PARS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES

OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING. OR TWISTING IF THE WRIST. THE FORCE REQUIRED TO

ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.

ACCESSIBILITY ROUTES 1/4" = 1'-0"

OPEN RISERS SHALL NOT BE PERMITTED
TREADS SHALL COMPLY WITH FLOOR SURFACES AND SHALL HAVE A SLOPE NOT
STEEPER THAN 1:48. 3. CONTRASTING STRIPE. INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. STRIPE SHALL BE 2-4 INCHES WIDE PARALLEL TO AND NOT MORE THAN I INCH FORM THE NODS OF THE STEP AND BE THE FULL WIDTH OF THE STEP, BE AT LEAST AS SLIP RESISTANT AS THE TREADS, PAINTED STRIPE IS ACCEPTABLE, GROVES SHALL NOT BE USED. NOSINGS. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2 INCH MAXIMUM. NOSING THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED.

HANDRAILS: STAIRS SHALL HAVE COMPLYING HANDRAILS.

WET CONTITIONS: STAIR TREADS AND LANDINGS SUBJECT TO WET CONDITIONS

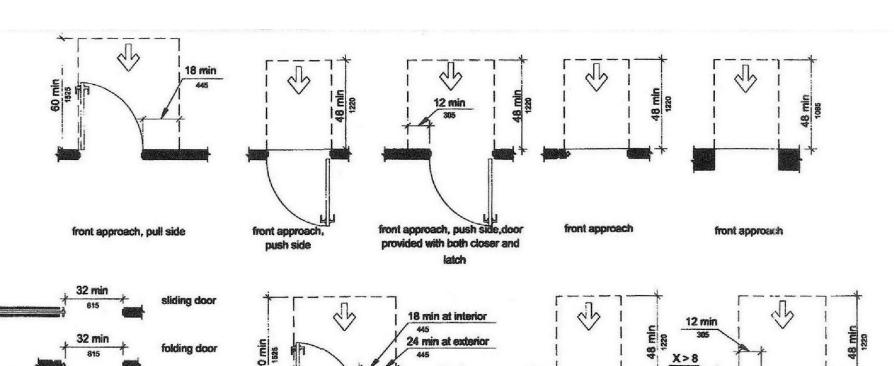
SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER. FLOOR IDENTIFICATION REQUIRED BY CHAPTER 10 SHALL BE LOCATED AT THE LANDING OF EACH FLOOR LEVEL, PLACED ADJACENT TO THE DOOR ON THE LATCH SIDE, IN ALL ENCLOSED STAIRWAYS IN BUILDINGS TWO OR MORE STORIES IN HEIGHT TO IDENTIFY THE FLOOR LEVEL. AT THE EXIT DISCHARGE LEVEL, THE SIGN SHALL INCLUDE A RAISED FIVE POINTED STAR LOCATED TO THE LEFT OF THE IDENTIFYING FLOOR LEVEL. THE OUTSIDE DIAMETER OF THE STAIR SHALL BE THE SAME AS THE HEIGHT IF THE RAISED CHARACTERS.

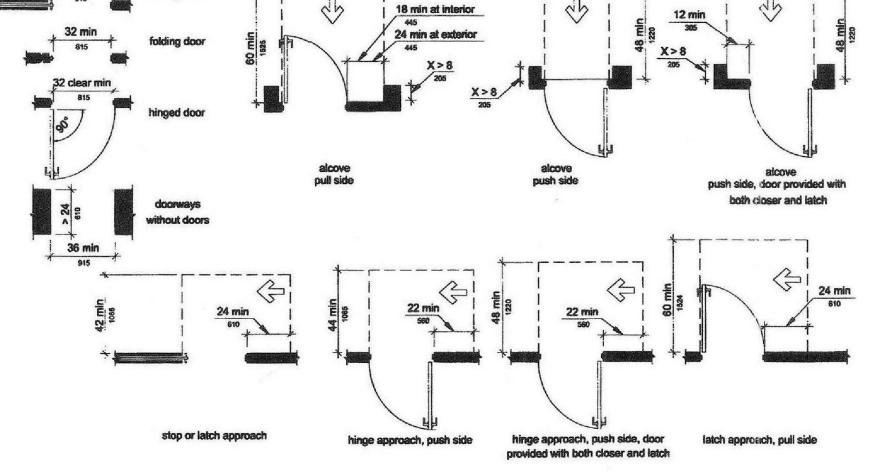
42" MIN. 1524 at least as wide as ramp run EXTERIOR: 24" MINIMUM OR DOOR ON . IF (X) IS GREATER THAN 3" THEN (Y) MUST BE: 60" MINIMUM AT TOP OF LANDING 72" MINIMUM AT BOTTOM LANDING DOORS IN ANY POSITION SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE RAMP LANDING TO LESS THAN 42" AND DOOR SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3" FULLY OPEN

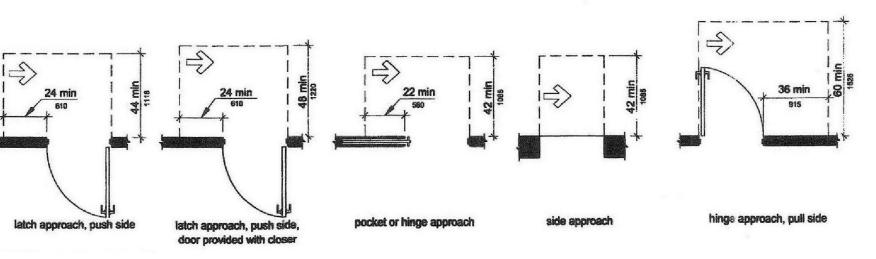
1. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER RAMP RUNS SHALL COMPLY WITH FLOOR SURFACES. HE CLEAR WIDTH OF A RAMP RUN SHALL BE 48 INCHES MINIMUM. HANDRAILS MAY PROJECT INTO THE REQUIRED CLEAR WIDTH OF THE RAMP AT EACH SIDE 3-1/2" MAXIMUM AT THE HANDRAIL HEIGHT. 5. THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES 5. LANDINGS SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 AND SHALL COMPLY WITH FLOOR SURFACES. RAMPS THAT CHANGE DIRECTION AT RAMP RUNS SHALL PROVIDE A TURNING SPACE. 8. RAMP RUNS WITH A RISE GREATER THAN 6 INCHES SHALL HAVE COMPLYING HANDRAILS.

EDGE PROTECTION SHALL BE PROVIDED ON EACH SIDE
OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS. EXCEPTIONS:

1. EDGE PROTECTION SHALL NOT BE REQUIRED AT 2. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS SERVING AN RAMP RUN OR S. EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS HAVING A VERTICAL DROP-OFF OF 1/2 INCH MINIMUM WITHIN 10 INCHES HORIZONTALLY OF THE MINIMUM LANDING AREA. 10. A CURB, 2 INCHES HIGH MINIMUM, OR BARRIER SHALL BE PROVIDED THAT PRESENTS A PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE S WITHIN 4 INCHES OF THE FINISH FLOOR OR GROUND SURFACE. TO PREVENT WHEEL ENTRAPMENT, THE CURB OF BARRIER SHALL PROVIDE A CONTINUOUS AND JNINTERRUPTED BARRIER ALONG THE LENGTH OF THE 11. LANDING SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER.



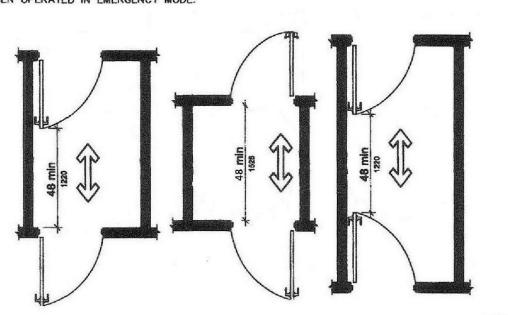




AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY PROJECTIONS: THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHAL NOT EXCEED 4 INCHES. EXCEPTION: IN ALTERATIONS, A PROJECTION OF 5/8" MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES MINIMUM ABOVE THE FINISH FLOOR OR PROVIDE REQUIRED MANEUVERING SPACE AT DOORS. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE. THRESHOLDS IF PROVIDED SHALL COMPLY WITH CHANGES IN LEVEL. DOOR HARDWARE: HANDLES, PULLS, LATCHED, LOCKS AND OTHER OPERABLE PARTS ON DOOR AND GATES SHALL BE 34" MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. EXCEPTION: EXISTING LOCKS SHALL BE PERMITTED IN ANY LOCATION AT EXISTING GLAZED DOORS WITHOUT STILE, EXITING OVERHEAD ROLLING DOORS OR GRILLS, AND SIMILAR EXISTING DOORS OR GRILLES THAT ARE DESIGNED WIT LOCKS THAT ARE ACTIVATED AT THE TOP OR BOTTOM RAIL. 6. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. SPRING HINGES DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THE FROM THE OPEN POSITION OF 70 DEGREES THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 DOOR AND GATE OPENING FORCE. FIRE DOORS SHALL HAVE A MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN A FIRE DOOR SHALL BE 5 POUNDS FOR INTERIOR DOORS, GATES, SLIDING OR FOLDING DOORS. DOOR AND GATE SURFACES. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISHED FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OF VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED. EXCEPTIONS: SIDING DOORS ARE NOT REQUIRED TO COMPLY. TEMPERED GLASS DOORS WITHOUT STILES AND HAVING A BOTTOM RAIL OR SHOE WITH THE TOP LEADING EDGE TAPERED AT 60 DEGREES MINIMUM FROM THE HORIZONTAL SHALL NOT BE REQUIRED TO COMPLY. DOORS AND GATES THAT DO NOT EXTEND TO WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO COMPLY. EXISTING DOORS AND GATED WITHOUT SMOOTH SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO PROVIDE A SMOOTH SURFACES PROVIDED THAT IF ADDED KICK PLATED ARE INSTALLED CAVITIES CREATED BY SUCH KICK PLATED ARE CAPPED. 10. <u>VISION LIGHTS:</u> DOORS, GATES AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR. EXCEPTION: VISION LIGHTS WITH THE LOWEST PART MORE THAN 66 INCHES FROM THE FINISH FLOOR OR GROUND SHALL NOT BE REQUIRED TO COMPLY.

AUTOMATIC AND POWER ASSISTED DOORS AND GATES. AUTOMATIC DOORS AND AUTOMATIC GATES

SHALL COMPLY WITH ANSI/BHMA A156.10. LOW ENERGY AND POWER ASSISTED DOORS SHALL COMPLY WITH ANSI/BHMA A156.19. AUTOMATIC DOORS SHALL PROVIDE A CLEAR OPENING OF 32 INCHES MINIMUM IN POWER-ON AND POWER-OFF MODE. THE MINIMUM CLEAR WIDTH OF AUTOMATIC DOOR SYSTEMS IN A DOORWAY SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING OF 32 INCHES WITH ONE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. MANEUVERING CLEARANCES AND THRESHOLDS AT POWER ASSISTED AND AUTOMATIC DOORS SHALL COMPLY. EXCEPTION: WHERE AUTOMATIC DOORS AND GATES REMAIN OPEN IN THE POWER-OFFCONDITION, MANEUVERING CLEARANCES ARE NOT REQUIRED. MANUAL CONTROLS SHALL COMPLY WITH REACH RANGES AND BE LOCATED BEYOND THE ARC OF THE DOOR SWING. WHERE DOORS AND GATES WITHOUT STANDBY POWER ARE A PART OF A MEANS OF EGRESS, THE CLEAR BREAK OUT OPENING AT SWINGING OR SLIDING DOORS AND GATES SHALL BE 32 INCHES MINIMUM WHEN OPERATED IN EMERGENCY MODE.



ACCESSIBILITY DETAILS

3:50:05 PM

TURNING SPACE AND CLEAR FLOOR SPACE ...

1/4" = 1'-0"

STAIRWAYS O4

DOORS, DOORWAYS AND GATES

1/4" = 1'-0"

REVISION:

No. | Description | Date

ELEVATION CHILDREN

ET AND BATHING ROOMS

CLEARANCES: TURNING SPACE SHALL BE PROVIDED WITHIN THE ROOM. REQUIRED CLEAR FLOOR SPACES, CLEARANCE AT FIXTURES, AND TURNING SPACE SHALL BE PERMITTED TO OVERLAP. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR TO THE ACCESSION WATER CLOSED. SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. OTHER THAN THE DOOR TO THE ACCESSIBLE WATER CLOSED COMPARTMENT, A DOOR IN ANY POSITION, MAY ENCROACH INTO THE TURNING SPACE BY 12 INCHES. EXCEPTION: WHERE THE TOILET ROOM OR BATHING ROOM IS FOR INDIVIDUAL USE AND A COMPLYING CLEAR FLOOR SPACE PROVIDED WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES. SHELVES SHALL BE LOCATED 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISHED FLOOR. ACCESSORIES: WHERE TOWEL OR SANITARY NAPKIN DISPENSERS, WASTE RECEPTACLES, OR OTHER ACCESSORIES ARE PROVIDED IN TOILET FACILITIES, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED ON A ACCESSIBLE ROUTE, ALL OPERABLE PARTS, INCLUDING COIN SLOTS, SHALL BE 40 INCHES MAXIMUM ABOVE THE FINISH FLOOR.

WATER CLOSETS AND TOILET COMPARTMENTS

1. OVERLAP: THE REQUIRED CLEARANCES AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, DISPENSERS, SANITARY NAPKIN DISPOSAL UNITS, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AND CLEARANCES REQUIRED AT OTHER FIXTURE, AND THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

FLUSH VALVES

1. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC, HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH REACH RANGES EXCEPT THEY SHALL BE LOCATED 44 INCHES MAXIMUM ABOVE THE FLOOR, AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS.

DISPENSERS, SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER AMBULATORY COMPARTMENTS:

1. WHERE TOILET COMPARTMENTS ARE PROVIDED AT LEAST ONE SHALL BE ACCESSIBLE. IN ADDITION AT LEASE ONE AMBULATORY COMPARTMENT ARE PROVIDED WHERE SIX ORE MORE TOILET COMPARTMENTS ARE PROVIDED. OR WHERE

THE COMBINATION OF URNALS AND WATER CLOSETS TOTALS SIX OR MORE FIXTURES.

CBC REV 1

TOILET COMPARTMENTS

1/2" = 1'-0"

SPACING OF GRAB BARS SIZE OF GRAIB BARS

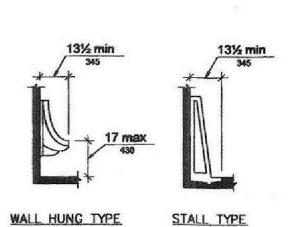
GRAB BARS IN ACCESSIBLE TOILET OR BATHING FACILITIES SHALL COMPLY. 2. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES MINIMUM AND 36 INCHES MAXIMUM ABOVE THE FLOOR MEASURED TO THE TOP;

OF THE GRIPING SURFACE. 3. GRAB BARS, AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS, SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE

4. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS. 5. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE AT THE LOCATIONS SPECIFIED IN THIS STANDARD AND DOES NOT OBSTRUCT THE CLEAR FLOOR SPACE.

6. STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

GRAB BARS
1" = 10'-0"

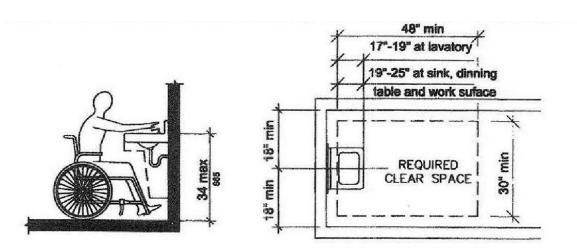


WHERE ONE OR MORE URINAL ARE PROVIDED, AT LEAST ONE SHALL BE

2. A CLEAR FLOOR OR GROUND SPACE POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED. 3. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC, HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH REACH RANGES AND NOT REQUIRE TIGHT GRASPING. PINCHING. OR TWISTING OF THE WRIST, THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED AT A MAXIMUM HEIGHT OF 44 INCHES

ABOVE THE FINISH FLOOR.

MAXIMUM



A CLEAR FLOOR SPACE POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED. EXCEPTION: A PARALLEL APPROACH SHALL BE PERMITTED TO A KITCHEN SINK IN A SPACE WHERE A COOK TOP OR CONVENTIONAL RANGE IS NOT PROVIDED. KNEE AND TOE CLEARANCE SHALL BE PROVIDED, THE DIP OF THE OVERFLOW SHALL

NOT BE CONSIDERED IN DETERMINING KNEE AND TOE CLEARANCES. FAUCETS SHALL COMPLY WITH OPERABLE PARTS. HAND—OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM. WHERE ENHANCED REACH RANGE IS REQUIRED AT LAVATORIES, FAUCETS AND SOAP DISPENSER CONTROLS SHALL HAVE A REACH DEPTH OF 11 INCHES MAXIMUM OR, IF AUTOMATIC, SHALL BE ACTIVATED WITHIN A REACH DEPTH OF 11 INCHES MAXIMUM. WATER AND SOAP FLOW SHALL BE PROVIDED WITH A REACH DEPTH OF 11 INCHES

5. WATER SUPPLY AND DRAINPIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

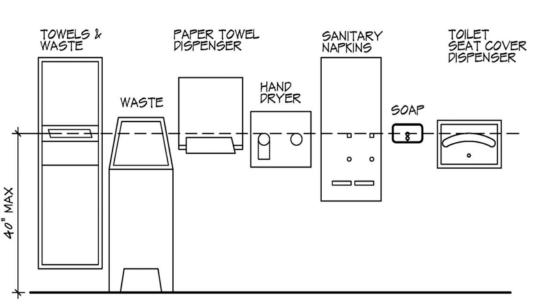
LAVATORIES AND SINKS

1/2" = 1'-0"

5

9. THERE SHALL BE SUFFICIENT SPACE IN THE TOILET ROOM FOR A WHEELCHAIR MEASURING 30 INCHES WIDE BY 48 INCHES LONG TO ENTER THE ROOM AND PERMIT THE DOOR TO CLOSE. THERE SHALL BE IN THE ROOM A CLEAR FLOOR SPACE OF AT LEAST 60 INCHES IN DIAMETER. DOORS, OTHER THAN THE DOOR TO THE ACCESSIBLE COMPARTMENT, SHALL NOT SWING INTO THIS SPACE FOR MORE THAN 12". A MINIMUM CLEAR WIDTH OF AN ACCESSIBLE ROUTE SHALL BE 44 INCHES EXCEPT AT DOORS.

10. MIRRORS LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAX ABOVE THE FINISH FLOOR. MIRRORS NOT LOCATED ABOVE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAX ABOVE THE FINISH FLOOR. LOCATE TOWEL. SANITARY NAPKIN, AND WASTE RECEPTACLES WITH ALL OPERABLE MECHANISMS NOT MORE THAN 40 INCHES FROM THE FLOOR. LOCATE TOILET TISSUE DISPENSER ON THE WALL WITHIN 7 - 9 INCHES CENTERLINE FROM THE FRONT EDGE OF THE TOILET SEAT AND 19 INCHES TO OPENING (OUTLET) ABOVE THE FINISH FLOOR AND NOT BEHIND THE GRAB BAR. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.



11.STRUCTURAL STRENGTH. THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS.

A. BENDING STRESS IN A GRAB BAR OR SEAT INDUCED BY THE MAXIMUM BENDING MOMENT FROM THE APPLICATION OF A 250-POUND POINT LOAD SHALL BE LESS THAN THE ALLOWABLE STRESS FROM THE MATERIAL OF THE GRAB BAR OR SEAT.

B. SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF A 250-POUND POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FROM THE MATERIAL OF THE GRAB BAR OR SEAT, AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESS SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.

12.GRAB BARS SHALL BE LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF THE ACCESSIBLE TOILET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED 33-36 INCHES ABOVE AND PARALLEL TO THE FLOOR TO TOP OF GRAB BAR.

13.GRAB BARS AT THE SIDE SHALL BE AT LEAST 42 INCHES LONG WITH THE FRONT END POSITIONED 24 INCHES IN FRONT ON THE WATER CLOSET, AND GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36 INCHES LONG.

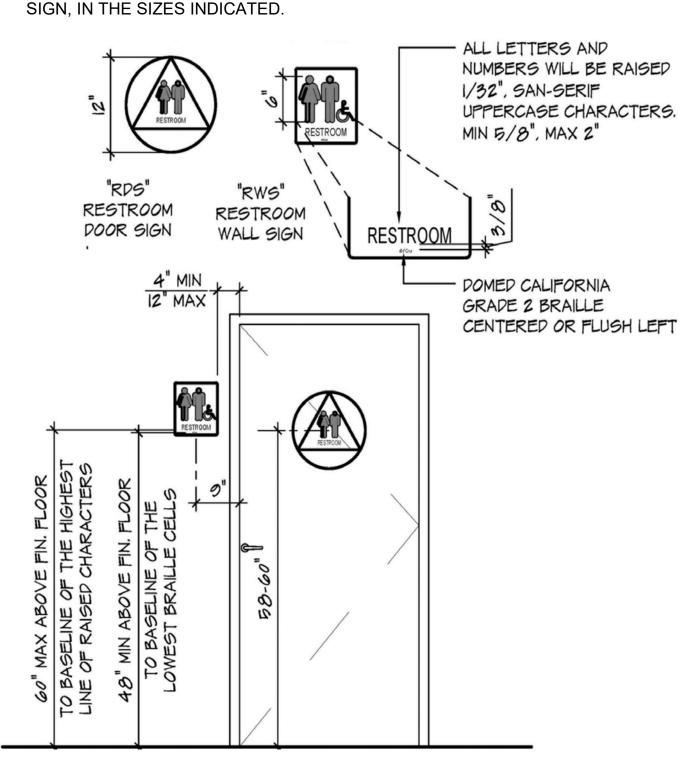
14.THE OUTSIDE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1 /4 INCHES TO 2 INCHES.

15.IF THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL. THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2 INCHES.

16. A GRAB BAR ON ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.

17. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

18. RESTROOM DOOR AND WALL SIGNAGE NOTES ON DOORWAYS LEADING TO MEN'S SANITARY FACILITIES, PROVIDE A 1/4 INCH THICK EQUILATERAL TRIANGLE WITH EDGES 12 INCHES LONG AND A VERTEX POINTING UPWARD. PROVIDE A 1/4 INCH THICK, 12 INCH DIAMETER CIRCLE ON WOMEN'S SANITARY FACILITIES. UNISEX SANITARY FACILITIES REQUIRE A 1/4 INCH THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12 INCH DIAMETER. CENTER THE SYMBOLS ON THE DOOR AT A HEIGHT OF 58-60 INCHES. SYMBOLS ARE TO BE DISTINCTLY DIFFERENT FROM THE DOOR IN COLOR AND CONTRAST. NOTE 1: CONSTRUCTION: PROVIDE SIGNS COMPLYING WITH THE REQUIREMENTS OF THE AMERICANS DISABILITIES ACT. AND TITLE 24, PART 2, OF CALIFORNIA CODE OF REGULATIONS, AND AS INDICATED. PROVIDE MANUFACTURERS STANDARD OR CUSTOM MADE

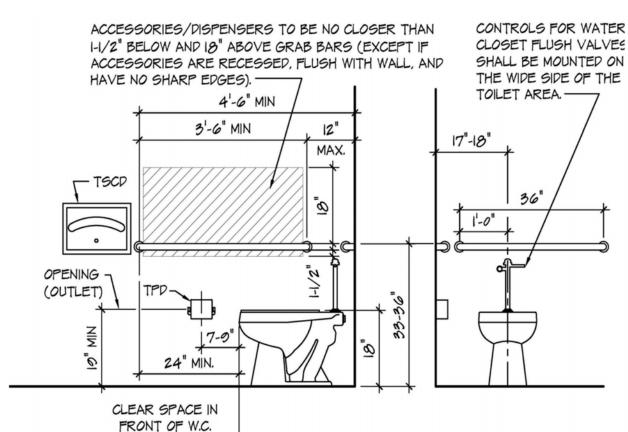


BATHROOM SIGNAGE

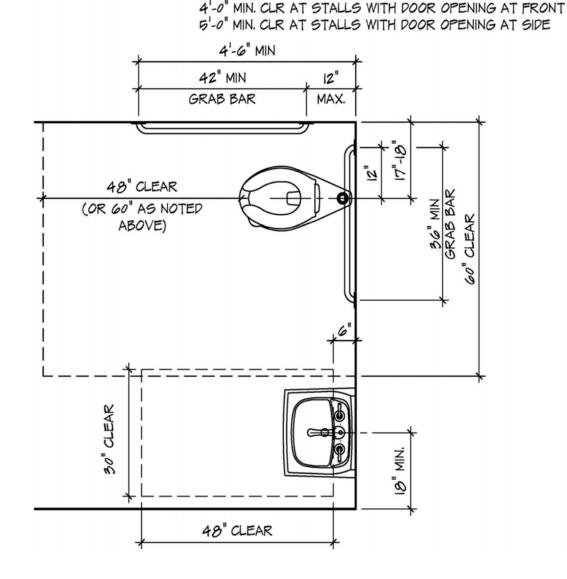
1.THE HEIGHT OF ACCESSIBLE WATER CLOSETS SHALL BE 18 INCHES MEASURED TO THE TOP OF THE TOILET SEAT

2. THE WATER CLOSET SHALL BE LOCATED IN A 60 INCH WIDE CLEAR SPACE WITH THE CENTERLINE OF THE WATER CLOSET 17-18 INCHES TO THE ADJACENT WALL.

3. TOILET FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND, AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 44 INCHES ABOVE THE FLOOR. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS



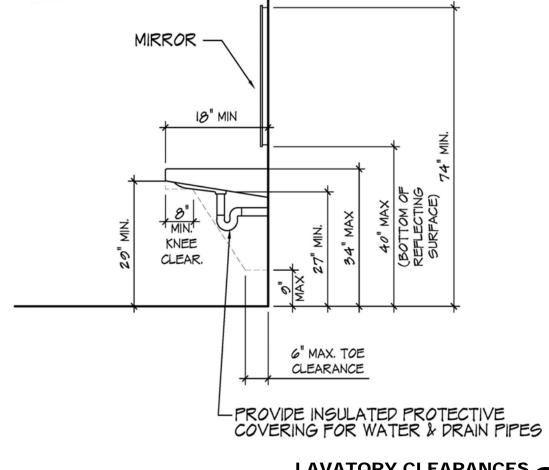
- 4'-0" MIN. CLR AT SINGLE ACCOMMODATION TOILET ROOMS



BATHROOM CLEARANCES 1/2" = 1'-0"

4.PROVIDE 18 INCHES MINIMUM FROM THE LAVATORY TO THE ADJACENT WALL. A CLEAR SPACE 30 INCHES WIDE BY 48 INCHES LONG SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW A FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE AND SHALL EXTEND INTO KNEE AND TOE SPACE UNDERNEATH THE LAVATORY.

5. LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 29 INCHES FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30 INCHES IN WIDTH WITH 8 INCHES MINIMUM DEPTH AT THE TOP. TOE CLEARANCE SHALL BE THE SAME WIDTH AND SHALL BE A MINIMUM OF NINE INCHES FROM THE FLOOR AND MINIMUM OF 17 INCHES DEEP FROM THE FRONT OF THE LAVATORY.



LAVATORY CLEARANCES 1/2" = 1'-0"

6.A PROJECTION OF A LAVATORY BOWL INTO THE 8 INCH CLEAR SPACE, THEREBY REDUCING THE CLEAR HEIGHT BELOW THE LAVATORY TO NO LESS THAN 27 INCHES AT 8 INCHES BACK FROM APRON, MEETS THE REQUIREMENTS FOR PROVIDING KNEE CLEARANCE A MAXIMUM HEIGHT OF 34 INCHES TO THE TOP OF THE LAVATORY IS REQUIRED.

7. WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE LAVATORIES.

8. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL NOT BE REATER THAN 5 POUNDS. LEVER-OPERATED PUSH-TYPE. AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED, IF THE FAUCET REMAINS OPEN FOR AT LEAST TEN SECONDS.

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EGRESS ILLUMINATION (PER 1011 CBC)

SEE SHEET E2.0 FOR EMERGENCY LIGHT FIXTURE LOCATIONS 1 FOOT CANDLE MIN TO BE PROVIDED THROUGHOUT.

EXIT SIGNS (PER 1011 CBC)

1011.1 WHERE REQUIRED. EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. THE PATH OF EGRESS TRAVEL TO EXITS AND WITHIN EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGNS TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL IN CASES WHERE THE EXIT OR THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS. INTERVENING MEANS OF EGRESS DOORS WITHIN EXITS SHALL BE MARKED BY EXIT SIGNS. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR OR EXIT PASSAGEWAY IS MORE THAN 100 FEET (30 480 MM) OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN.

1011.3 ILLUMINATION. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED.

EXCEPTION: TACTILE SIGNS REQUIRED BY SECTION 1011.4 NEED NOT BE PROVIDED WITH ILLUMINATION.

1011.4 RAISED CHARACTER AND BRAILLE EXIT SIGNS. TACTILE EXIT SIGNS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:

1. EACH GRADE-LEVEL EXTERIOR EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD, "EXIT."

2. EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 101.1.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE: "EXIT STAIR DOWN" "EXIT RAMP DOWN" "EXIT STAIR UP" "EXIT RAMP UP"

3. EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGE- WAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXITROUTE."

4. EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE."

5. EACH EXIT DOOR THROUGH A HORIZONTAL EXIT THAT IS REQUIRED TO COMPLY WITH SECTION 1011.1, SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS, "TO EXIT. "

RAISED CHARACTER AND BRAILLE EXIT SIGNS SHALL COMPLY WITH CHAPTER 11A, SECTION 1143A OR CHAPTER 11B, SECTIONS 11B- 703.1, 11B-703.2, 11B-703.3 AND 11B-703.5.

OCCUPANT LOAD (PER 1004.3 CBC)

1004.3 POSTING OF OCCUPANT LOAD.

EVERY ROOM OR SPACE WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING, DRINKING, OR SIMILAR PURPOSES HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT

1004.1 DESIGN OCCUPANT LOAD.

IN DETERMINING MEANS OF EGRESS REQUIREMENTS, THE NUMBER OF OCCUPANTS FOR WHOM MEANS OF EGRESS FACILITIES SHALL BE PROVIDED SHALL BE DETER? MINED IN ACCORDANCE WITH THIS SECTION.

1004.1.1 CUMULATIVE OCCUPANT LOADS.

WHERE THE PATH OF EGRESS TRAVEL INCLUDES INTERVENING ROOMS, AREAS OR SPACES, CUMULATIVE OCCUPANT LOADS SHALL BE DETERMINED IN ACCORDANCE WITH THIS SECTION.

1004.1.1.1 INTERVENING SPACES OR ACCESSORY AREAS. WHERE OCCUPANTS EGRESS FROM ONE OR MORE ROOMS, AREAS OR SPACES THROUGH OTHERS, THE DESIGN OCCUPANT LOAD SHALL BE THE COMBINED OCCUPANT LOAD OF INTERCONNECTED ACCESSORY OR INTERVENING SPACES DESIGN OF EGRESS PATH CAPACITY SHALL BE BASED ON THE CLIMITATIVE POPE

THROUGH OTHERS, THE DESIGN OCCUPANT LOAD SHALL BE THE COMBINED OCCUPANT LOAD OF INTERCONNECTED ACCESSORY OR INTERVENING SPACES. DESIGN OF EGRESS PATH CAPACITY SHALL BE BASED ON THE CUMULATIVE PORTION OF OCCUPANT LOADS OF ALL ROOMS, AREAS OR SPACES TO THAT POINT ALONG THE PATH OF EGRESS TRAVEL.

EGRESS WIDTH (PER 1005 CBC & 11B403.5.1)

IIB-403.5.1 CLEAR WIDTH. EXCEPT AS PROVIDED IN SECTIONS 11B-403.5.2 AND 11B-403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES (914 MM) MINIMUM. EXCEPTIONS:

1. THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES (813 MM) MINIMUM FOR A LENGTH OF 24 INCHES (610 MM) MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48 INCHES (1219 MM) LONG MINI- MUM AND 36 INCHES (914 MM) WIDE MINIMUM.

2. THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE 44 INCHES (1118 MM) MINIMUM.

3. THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48 INCHES (1219 MM) MINIMUM. WHEN, BECAUSE OF RIGHT-OF-WAY RESTRICTIONS, NATURAL BARRIERS OR

NOTES

1. THE PATH OF TRAVEL WITH 3'-8" SHALL BE MAINTAINED TO ALL ACCESSIBLE AREAS INCLUDING TOILET ROOMS AND FITTING ROOMS

2. THE MAX PERMITTED CROSS SLOPE ON THE PATH OF TRAVEL SHALL BE 2%.

3. ANY ABRUPT LEVEL CHANGE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 1/2" WHERE CHANGE DOES OCCUR IT SHALL BE BEVELED AT 1:12 LEVEL CHANGE OR 1/4" OR LESS MAY BE VERTICAL.

4. ACCESSIBLE PATH OF TRAVEL FOR THE DEVELOPMENT LEADING TO THIS TENANT SPACE IS SUBSTANTIAL COMPLIANCE WITH CBC, TITLE 24, AND ADA REQUIREMENTS.

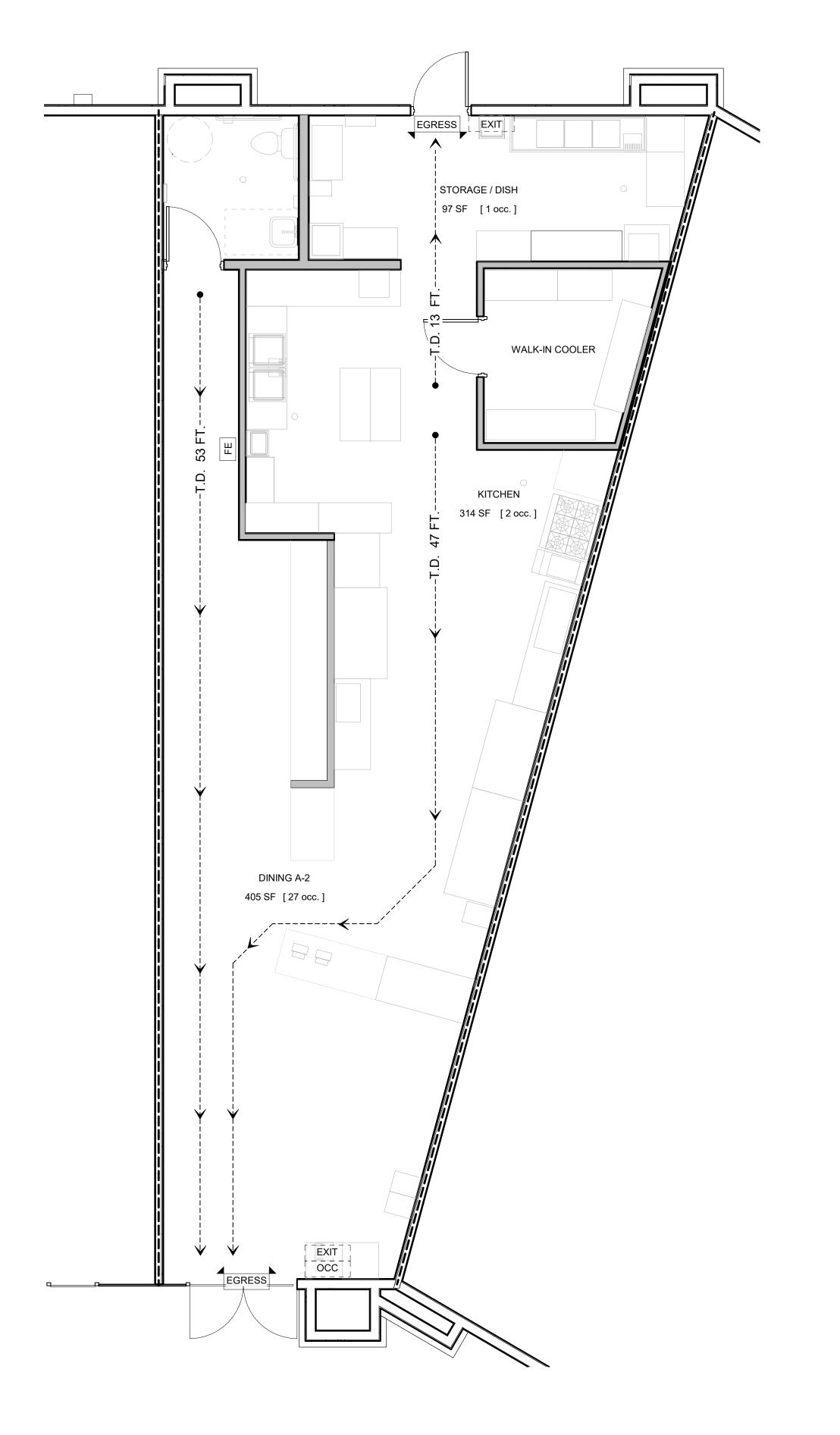
5. PROVIDE TACTILE EXIT SIGNS AT EXIT ROUTES AND EXISTS CENTERED AT 60" ABOVE THE FINISH FLOOR AS FOLLOWS:

A. EACH GRADE LEVEL EXIT DOOR SHALL BE IDENTIFIED BY TACTILE EXIT SIGN READING "EXIT".

B. EACH ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN THAT READS "EXIT ROUTE".

6. ALL EXIT SIGNS AND EMERGENCY LIGHTS ARE SHOWN ON ELECTRICAL DRAWINGS AND WILL BE SUBJECT TO INSPECTION FROM THE FIRE MARSHAL HAVING AUTHORITY PRIOR TO FINAL APPROVALS.

7. ALL EXISTS ARE TO BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE. "IN LIEU OF THE ABOVE REQUIREMENT, IN GROUP A OCCUPANCIES HAVING AN OCCUPANT LOAD OF 300 OR LESS, GROUP B, F, M, AND S AND IN PLACES OF WORSHIP, YOU MAY NOTE" PROVIDE A SIGN ON OR NEAR THE EXIT DOORS READING "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED." THIS SIGNAGE IS ONLY ALLOWED AT THE MAIN EXIT (PER 1008 CBC)



ROOM OCCUPANCY + EGRESS PLAN 1/4" = 1'-0"

----- EGRESS PATH OF TRAVEL 44" MINIMUM WIDTH

T.D. = TRAVEL DISTANCE

FIRE EXTINGUISHER NOTES

OCCUPANCIES.

716.5 FIRE DOOR AND SHUTTER ASSEMBLIES. APPROVED FIRE DOOR AND FIRE SHUTTER ASSEMBLIES SHALL BE CONSTRUCTED OF ANY MATERIAL OR ASSEMBLY OF COMPONENT MATERIALS THAT CONFORMS TO THE TEST REQUIREMENTS OF SECTION 716.5.1, 716.5.2 OR 716.5.3 AND THE FIRE PROTECTION RATING INDICATED IN TABLE 716.5. FIRE DOOR FRAMES WITH TRANSOM LIGHTS, SIDELIGHTS OR BOTH SHALL BE PERMIT- TED IN ACCORDANCE WITH SECTION 716.5.6. FIRE DOOR ASSEMBLIES AND SHUTTERS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS SECTION AND NFPA 80.

716.5.7 LABELED PROTECTIVE ASSEMBLIES. FIRE DOOR ASSEMBLIES SHALL BE LABELED BY AN APPROVED AGENCY. THE LABELS SHALL COMPLY WITH NFPA 80, AND SHALL BE PERMANENTLY AFFIXED TO THE DOOR OR FRAME.

SECTION 906 PORTABLE FIRE EXTINGUISHERS

906.1 WHERE REQUIRED. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ALL OF THE FOLLOWING LOCATIONS:

1. IN GROUP A, B, E, F, H, I, L, M, R-1, R-2, R-2.1, R.3.1, R-4 AND S

EXCEPTION: IN GROUP R-2 OCCUPANCIES, PORTABLE FIRE EXTINGUISHERS SHALL BE REQUIRED ONLY IN LOCATIONS SPECIFIED IN ITEMS 2 THROUGH 6 WHERE EACH DWELLING UNIT IS PROVIDED WITH A PORTABLE FIRE EXTINGUISHER HAVING A MINIMUM RATING OF 1-A:10-B:C. 2. WITHIN 30 FEET (9144 MM) OF COMMERCIAL COOKING EQUIPMENT. 3. IN AREAS WHERE FLAMMABLE OR COMBUSTIBLE LIQUIDS ARE STORED, USED OR DISPENSED.

4. ON EACH FLOOR OF STRUCTURES UNDER CONSTRUCTION, EXCEPT GROUP R-3 OCCUPANCIES, IN ACCORDANCE WITH SECTION 3315.1 OF THE CALIFORNIA FIRE CODE.

5. WHERE REQUIRED BY THE CALIFORNIA FIRE CODE SECTIONS INDICATED

IN TABLE 906.1.
6. SPECIAL-HAZARD AREAS, INCLUDING BUT NOT LIMITED TO

LABORATORIES, COMPUTER ROOMS AND GENERATOR ROOMS, WHERE REQUIRED BY THE FIRE CODE OFFICIAL.

906.4 COOKING GREASE FIRES. FIRE EXTINGUISHERS PROVIDED FOR THE PROTECTION OF COOKING GREASE FIRES SHALL BE OF AN APPROVED TYPE COMPATIBLE WITH THE AUTOMATIC FIRE-EXTINGUISH- ING SYSTEM AGENT AND IN ACCORDANCE WITH SECTION 904.11.5 OF THE CALIFORNIA FIRE CODE.

906.5 CONSPICUOUS LOCATION. 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, UNLESS THE FIRE CODE OFFICIAL DETERMINES THAT THE HAZARD POSED INDICATES THE NEED FOR PLACEMENT AWAY FROM NORMAL PATHS OF TRAVEL.

906.6 UNOBSTRUCTED AND UNOBSCURED. PORTABLE FIRE EXTINGUISHERS SHALL NOT BE OBSTRUCTED OR OBSCURED FROM VIEW. IN ROOMS OR AREAS IN WHICH VISUAL OBSTRUCTION CANNOT BE COMPLETELY AVOIDED, MEANS SHALL BE PROVIDED TO INDICATE THE LOCATIONS OF EXTINGUISHERS.

906.7 HANGERS AND BRACKETS. HAND-HELD PORTABLE FIRE EXTINGUISHERS, NOT HOUSED IN CABINETS, SHALL BE INSTALLED ON THE HANGERS OR BRACKETS SUPPLIED. HANGERS OR BRACKETS SHALL BE SECURELY ANCHORED TO THE MOUNTING SURFACE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

906.8 CABINETS. CABINETS USED TO HOUSE PORTABLE FIRE EXTINGUISHERS SHALL NOT BE LOCKED. EXCEPTIONS:

1. WHERE PORTABLE FIRE EXTINGUISHERS SUBJECT TO MALICIOUS USE OR DAMAGE ARE PROVIDED WITH A MEANS OF READY ACCESS.

2. IN GROUP 1-3 OCCUPANCIES AND IN MENTAL HEALTH AREAS IN GROUP 1-2 OCCUPANCIES, ACCESS TO PORTABLE FIRE EXTINGUISHERS SHALL BE PERMITTED TO BE LOCKED OR TO BE LOCATED IN STAFF LOCATIONS PROVIDED THE STAFF HAS KEYS.

906.9 EXTINGUISHER INSTILLATION THE INSTALLATION OF PORTABLE FIRE EXTINGUISHERS SHALL BE IN

ACCORDANCE WITH SECTIONS 906.9.1 THROUGH 906.9.3.

PORTABLE FIRE EXTINGUISHER PER CBC 906

FIRE SYMBOLS

FIRE DEPARTMENT NOTES: NONE

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 4 INCHES HIGH WITH A MINIMUM STROKE WIDTH OF .5" AND SHALL BE ILLUMINATED IN AN APPROVED MANNER (IF NUMBERS ARE ON EXTERIOR). NUMBER HEIGHT AND STROKE WIDTH SHALL BE INCREASED AS NEEDED FOR LEGIBILITY BASED ON VISIBILITY DISTANCE.

KNOX BOX:

MOUNTING HEIGHT FOR THE KNOX BOX AND/ OR KEY SWITCH SHALL NOT EXCEED 6' ABOVE THE GROUND LEVEL / FINISH FLOOR. PROVIDE (3) THREE SETS OF KEYS (WITH PERMANENT ENGRAVED IDENTIFICATION) FOR ALL EXTERIOR DOORS, GATES, FIRE ALARM PANELS, AND OTHERS AS DIRECTED BY THE FIRE INSPECTOR.

FIRE EXTINGUISHERS:

PROVIDE A FIRE EXTINGUISHER (MIN. 2A-10BC) WITHIN 75 FEET TRAVEL DISTANCE FROM ALL POINTS IN THE OCCUPANCY. THE TOP OF THE EXTINGUISHER SHALL BE NO HIGHER THAN 48" ABOVE THE FLOOR; EXTINGUISHER SHALL BE PLACED IN A EASILY ACCESSIBLE LOCATION WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE FOR USE.

FIRE SPRINKLERS:

NEW SYSTEM: A COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT THE STRUCTURE IN ACCORDANCE WITH THE RECOMMENDATIONS OF NFPA 13 AND THE REQUIREMENTS OF THE VENTRUA COUNTY FIRE DEPARTMENT.

HOOD:

HOOD AND SPRAY BOOTH EXTINGUISHING SYSTEMS: INSTALLATION OF HOOD FIRE SUPPRESSION SYSTEM SHALL BE APPROVED UNDER SEPARATE PERMIT.



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APN:526-0-170-13

ILDEL Q JAY N VENTU PARK RD. UNIT 1 USAND OAKS, CA 91320

REVISION: No

No. Description Date

OCCUPANCY AND EGRESS PLAN

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*PATH IS LOCATED ON A PIER WHICH HAS AREAS WITH GAPS BETWEEN PLANKS GREATER THAN 1/2

HARSHIP 11B-202.4

INCHES. THIS DOES NOT COMPLY WITH 11B302.3 AND WILL NOT BE ADDRESSED UNDER THIS PERMIT PER

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EQUIPMEN	NT SCHEDULE						
ITEM#	DESCRIPTION	MANUFACTURER	MODEL	BASE	WATER	WASTE	REMARKS
1 5' DEI	LITOP	TRUE	TFP-64-24M-D-4	CASTERS	N/A	SELF CONTAINED	CONDENSATE / EVAPORATOR
2 6' DEI	LITOP	TRUE	TFP-72-30M-D-4	CASTERS	N/A	SELF CONTAINED	CONDENSATE / EVAPORATOR
3 FREE	ZER	TRUE	T-35F	CASTERS	N/A	SELF CONTAINED	CONDENSATE / EVAPORATOR
4 MEAT	SLICER	HOBART	THE EDGE 12	ON PREP TABLE	N/A	SELF CONTAINED	
5 REFR	IGERATED MERCHANDISER	TRUE	THAC-60-S	CASTERS	N/A	SELF CONTAINED	CONDENSATE / EVAPORATOR
6 3 CO	MPARTMENT SINK	ADVANCE TABCO	FC-3-1818-18RL			DRAIN TO FLOOR SINK	
7 DISH	WASHER	PURE FORCE	PA-1	30" LEGS		DRAIN TO FLOOR SINK	
8 RANG	SE .	IMPERIAL	IR-6	CASTERS	N/A	N/A	
9 ICE M	IAKER	HOSHIZAKI	KMD-460-M	ON COUNTER		DRAIN TO FLOOR SINK	CUSTOMER SELF-SERVICE
10 PREP	ARATION TABLE	REGENCY	600T2460G		N/A	N/A	
11 HAND	WASH SINK	REGENCY	600HS17	WALL MOUNTED		DRAIN DIRECT TO SEWER	SOAP AND PAPER TOWELS
12 TRAS	H CAN	ULINE	H-5148GR	FLOOR	N/A	SELF CONTAINED	
13 MOP	SINK	ADVANCE TABCO	9-OP-40DF	FLOOR MOUNTED		DRAIN DIRECT TO GRAVITY GREASE INTERCEPTOR	W/ SPLASH GUARD BETWEEN SINK AND STORAGE
14 SODA	DISPENSER	CORNELIOUS	ENDURO 175	ON COUNTER		DRAIN TO FLOOR SINK	
15 ICED	TEA MACHINE	BUNN	TB3Q	ON COUNTER		SELF CONTAINED	
16 EMPL	OYEE LOCKERS	WIN-HOLT	WL-55	6" LEGS	N/A	N/A	
17 POS		-	-	ON COUNTER	N/A	N/A	
18 TANK	LESS WATER HEATER	RINNAI	RUR98i				IN ATTIC ABOVE BATHROOM
19 WALK	(-IN COOLER	NORLAKE		FLOOR MOUNTED		DRAIN TO FLOOR SINK	UL# R8058 KOLD LOCKER WALKIN
20 HOOE)	CAPTIVEAIR	ND-2	WALL MOUNTED	N/A	N/A	GREASE FILTERS
22 FLOO	R SINK	-	-	N/A	N/A	DRAIN DIRECT TO GRAVITY GREASE INTERCEPTOR	FLUSH WITH FLOOR AND IN-LINE WITH FRONT OF EQUIPME
23 STAIN	ILESS STEEL WIRE SHELVING	METRO	1872 NC		N/A	N/A	
	URTAIN	STANDARD EQUIPMENT	AP-2-36-SS				
25 FRYE		DEAN	(SR14E) ELECTRIC	6"	N/A	N/A	
	R SINK	-	-			DRAIN DIRECT TO SEWER	FLUSH WITH FLOOR AND IN-LINE WITH FRONT OF EQUIPME
	PARATION SINK	ADVANCE TABCO	93-22-40-18RL	WALL MOUNTED		DRAIN TO FLOOR SINK	SOAP AND PAPER TOWELS
	R DRAIN	-	-			DRAIN DIRECT TO SEWER	
	MERCHANDISER	NEMCO	6510-D7	ON PREP TABLE	N/A	SELF CONTAINED	
	/EYOR OVEN	VOLLRATH	SO2-20814.5 JB3H	ON PREP TABLE	N/A	SELF CONTAINED	

1. SUPPLY WARM (AT LEAST 100 DEGREES FAHRENHEIT) AND COLD WATER THROUGH A MIXING FAUCET TO EACH HANDWASHING SINK. THE WATER SHALL BE PROVIDED FOR A MINIMUM OF FIFTEEN SECONDS WHILE BOTH HANDS ARE FREE FOR WASHING 2. ALL NEW AND REPLACEMENT FOOD-RELATED AND UTENSIL-RELATED EQUIPMENT SHALL BE CERTIFIED OR CLASSIFIED FOR SANITATION BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED CERTIFICATION PROGRAM, E.G., NSF INTERNATIONAL, ETL, UL, CSA, OR IAPMO.

- 3. PROVIDE A WATER HEATER CAPABLE OF SUPPLYING 120 DEGREES FAHRENHEIT WATER, MEASURED AT THE FAUCET, TO ALL SINKS, LAVATORIES, AND OTHER CLEANUP FACILITIES DURING PERIODS OF MAXIMUM DEMAND
- 4. ALL STEAM TABLES, ICE MACHINES AND BINS, FOOD PREPARATION SINKS, UTENSIL-WASHING SINKS, DISPLAY CASES, WAREWASHING MACHINES, REFRIGERATION UNITS, AND SALAD BARS WHICH ARE NOT SELF-EVAPORATIVE AND OTHER SIMILAR EQUIPMENT WHICH DISCHARGE LIQUID
- WASTE, SHALL DISCHARGE THIS WASTE THROUGH AN AIRGAP INTO A FLOOR SINK OR OTHER APPROVED WASTE RECEPTOR (AIRGAP OF A MINIMUM OF 1 INCH). 5. ALL FLOOR SINKS SHALL: BE INSTALLED FLUSH WITH THE FINISHED FLOOR SURFACE, AND HAVE APPROPRIATE GRATES HAVE HORIZONTAL RUNS OF DRAIN LINES THAT ARE AT LEAST 3/4 INCH FROM THE WALL AND SIX INCHES OFF THE FLOOR AND THAT TERMINATE A MINIMUM OF 1 INCH ABOVE THE RIM OF THE FLOOR SINK. DRAIN LINES SHALL DESCEND CONTINUOUSLY AT A MINIMUM RATE OF 1/4 INCH PER FOOT.

FINISH SCHEDULE						
ROOM NAME	FLOOR	BASE	WALL	CEILING		
BATHROOM	FINISHED CONCRETE	COVE BASE TILE *	WATER RESISTANT DRYWALL, PAINT SEMI GLOSS 4' CERAMIC TILE WAINSCOT	GYP.		
WALK-IN COOLER	QUARRY TILE**	QUARRY COVE BASE TILE**	26 GAUGE CORROSION RESISTANT STUCCO EMBOSSED COATED STEEL	SAME AS WALLS		
STORAGE / DISH	FINISHED CONCRETE	COVE BASE TILE *	FRP	SMOOTH WASHABLE VINYL CEILING TILES		
KITCHEN	FINISHED CONCRETE	COVE BASE TILE *	FRP SEE DETAIL 3/A6.0, STAINLESS STEEL BEHIND ALL COOKING EQUIPMENT WHERE REQUIRED	SMOOTH WASHABLE VINYL CEILING TILES		
DINING A-2	FINISHED CONCRETE	COVE BASE TILE *	DRYWALL,PAINT (SEMI-GLOSS PRISM WHITE (FRAZEE) (P2)	OPEN CEILING		

1. CONCRETE TO BE SEALED EPOXY 600, MINIMUM THICKNESS OF 3/16, SURFACE MUST BE SEALED TO BE IMPERVIOUS TO WATER, GREASE, AND ACID APF EPOXY 600 CONCRETE SEALER IS A USDA-APPROVED, 2-COMPONENT, WATER-BASED EPOXY SEALER * #S3619TN DALTILE 0190S3619TN1P2 ARCTIC WHITE SEMI-GLOSS CERAMIC 6" X 6" THIN LIP COVE BASE MULTI-SURFACE ACCESSORY SHALL BE USED FOR ALL COVE BASES

** DALTILE 6" X 6" QUARRY TILE, THICKNESS 1/2". DALTILE 5" X 6" QUARRY COVE BASE TILE: Q-3565.

ENVIRONMENTAL HEALTH NOTES

- (114266) ALL PERMANENT FOOD FACILITIES SHALL BE FULLY ENCLOSED IN A BUILDING CONSISTING OF PERMANENT FLOORS, WALLS, AND AN OVERHEAD STRUCTURE
- (114271D) CONDUITS OF ALL TYPES (I.E. PLUMBING, ELECTRICAL, AND BEVERAGE DISPENSING LINES) SHALL BE INSTALLED WITHIN WALLS. BEVERAGE DISPENSING LINES MAY BE ENCLOSED WITHIN WALLS OR FLOORS, OR BE FURRED IN OR ENCASED IN AN APPROVED RUNWAY OR OTHER APPROVED SEALED ENCLOSURE. WHERE LINES ENTER A WALL OR OTHER ENCLOSURE. THE OPENING AROUND THE LINES IN THE FLOOR SHALL PROTRUDE AT LEAST SIX INCHES FROM FLOOR AND BE COVED AT THE BASS OF THE CHASE.
- (114130.1) MATERIALS THAT ARE USED IN THE CONSTRUCTION OF UTENSILS AND FOOD-CONTACT SURFACES OF EQUIPMENT SHALL NOT ALLOW THE MIGRATION OF DELETERIOUS SUBSTANCES OR IMPART COLORS, ODORS, OR TASTES TO FOOD AND UNDER NORMAL USE CONDITIONS SHALL BE SAFE, DURABLE, CORROSIONRESISTANT, AND NONABSORBENT. SUFFICIENT IN WEIGHT AND THICKNESS TO WITHSTAND REPEATED WAREWASHING, FINISHED TO HAVE A SMOOTH. EASILY CLEANABLE SURFACE. AND RESISTANT TO PITTING. CHIPPING. CRAZING, SCRATCHING, SCORING, DISTORTION, AND DECOMPOSITION.
- 14169(A) EQUIPMENT THAT IS FIXED BECAUSE IT IS NOT EASILY MOVABLE SHALL BE INSTALLED SO THAT IT IS: (1) SPACED TO ALLOW ACCESS FOR CLEANING ALONG THE SIDES, BEHIND, AND ABOVE THE EQUIPMENT. (2) SPACED FROM ADJOINING EQUIPMENT, WALLS, AND CEILINGS A DISTANCE OF NOT MORE THAN (1/32") ONE THIRTY-SECOND INCH.(3) SEALED TO ADJOINING EQUIPMENT OR WALLS, IF THE EQUIPMENT IS EXPOSED TO SPILLAGE OR SEEPAGE. (B) EXCEPT AS SPECIFIED IN SUBDIVISIONS (C) AND (D), FLOOR-MOUNTED EQUIPMENT THAT IS NOT EASILY MOVABLE SHALL BE SEALED TO THE FLOOR (ON A 4" CURB) OR ELEVATED ON (CASTERS OR LEGS) THAT PROVIDE AT LEAST A SIXINCH CLEARANCE BETWEEN THE FLOOR AND THE EQUIPMENT. (C) NOTWITHSTANDING SUBDIVISION (B), THIS SECTION SHALL NOT APPLY TO DISPLAY SHELVING UNITS, DISPLAY REFRIGERATION UNITS, AND DISPLAY FREEZER UNITS LOCATED IN THE CONSUMER SHOPPING AREAS OF A FOOD FACILITY IF THE FLOOR UNDER THE UNITS IS MAINTAINED CLEAN. (D) TABLE-MOUNTED EQUIPMENT THAT IS NOT EASILY MOVABLE SHALL BE INSTALLED TO ALLOW CLEANING OF THE EQUIPMENT AND AREAS UNDERNEATH AND AROUND THE EQUIPMENT BY BEING SEALED TO THE TABLE OR ELEVATED ON LEGS THAT PROVIDE AT LEAST A FOUR-INCH CLEARANCE BETWEEN THE TABLE AND THE EQUIPMENT.
- (114250) PERMANENTLY INSTALLED TOILET TISSUE DISPENSERS MUST BE INSTALLED AT EACH TOILET.
- (114192/3) ALL SINKS MUST BE EQUIPPED WITH HOT AND COLD WATER DISPENSED FROM MIXING FAUCETS. A BACK FLOW PREVENTION DEVICE MAY BE REQUIRED ON WATER SUPPLY LINES TO FAUCETS WITH THREADED SPIGOTS AND OTHER EQUIPMENT
- (114190) ALL PLUMBING AND PLUMBING FIXTURES SHALL BE INSTALLED IN COMPLIANCE WITH APPLICABLE LOCAL PLUMBING ORDINANCES, SHALL BE MAINTAINED SO AS TO PREVENT ANY CONTAMINATION, AND SHALL BE KEPT CLEAN, FULLY OPERATIVE AND IN GOOD REPAIR. NO FLEX TUBING OR FLEX LINES WILL BE APPROVED. ALL WASTE LINES MUST BE HARD PIPED FROM THE TOP OF COUNTER TO FLOOR SINK.
- (114193C) ALL FLOOR SINKS SHALL BE AT LEAST HALF EXPOSED OR OTHERWISE READILY ACCESSIBLE FOR INSPECTION AND CLEANING. FLOOR SINK SHOULD NOT POSE A TRIPPING HAZARD.
- (114197) LIQUID WASTE SHALL BE DISPOSED OF THROUGH THE APPROVED PLUMBING SYSTEM AND SHALL DISCHARGE INTO THE PUBLIC SEWERAGE OR INTO AN APPROVED PRIVATE SEWAGE DISPOSAL SYSTEM.
- (114182) ELECTRICAL POWER SHALL BE SUPPLIED AT ALL TIMES TO OPERATE THE APPROVED EXHAUST, LIGHTING, ELECTRIC WATER HEATERS AND REFRIGERATION UNITS, AND ANY OTHER ACCESSORIES AND APPLIANCES THAT MAY BE INSTALLED IN A FOOD FACILITY.
- (114252) SUFFICIENT NATURAL OR ARTIFICIAL LIGHTING REQUIRED. LIGHT INTENSITY IS MEASURED AT A DISTANCE 30 INCHES ABOVE THE FLOOR AT: FIFTY (50) FOOT-CANDLES IN FOOD PREPARATION AREAS; TWENTY (20) FOOT-CANDLES IN UTENSIL WASH AREAS, BARS, AND RESTROOMS; TEN (10) FOOT-CANDLES IN DRY
- 12. (114252.1) SHATTERPROOF SHIELDS ON LIGHTS REQUIRED ABOVE FOOD PREPARATION, OPEN FOOD STORAGE, UTENSIL-CLEANING AREAS AND HOODS.

STORAGE AREAS AND WALK-IN COOLERS.

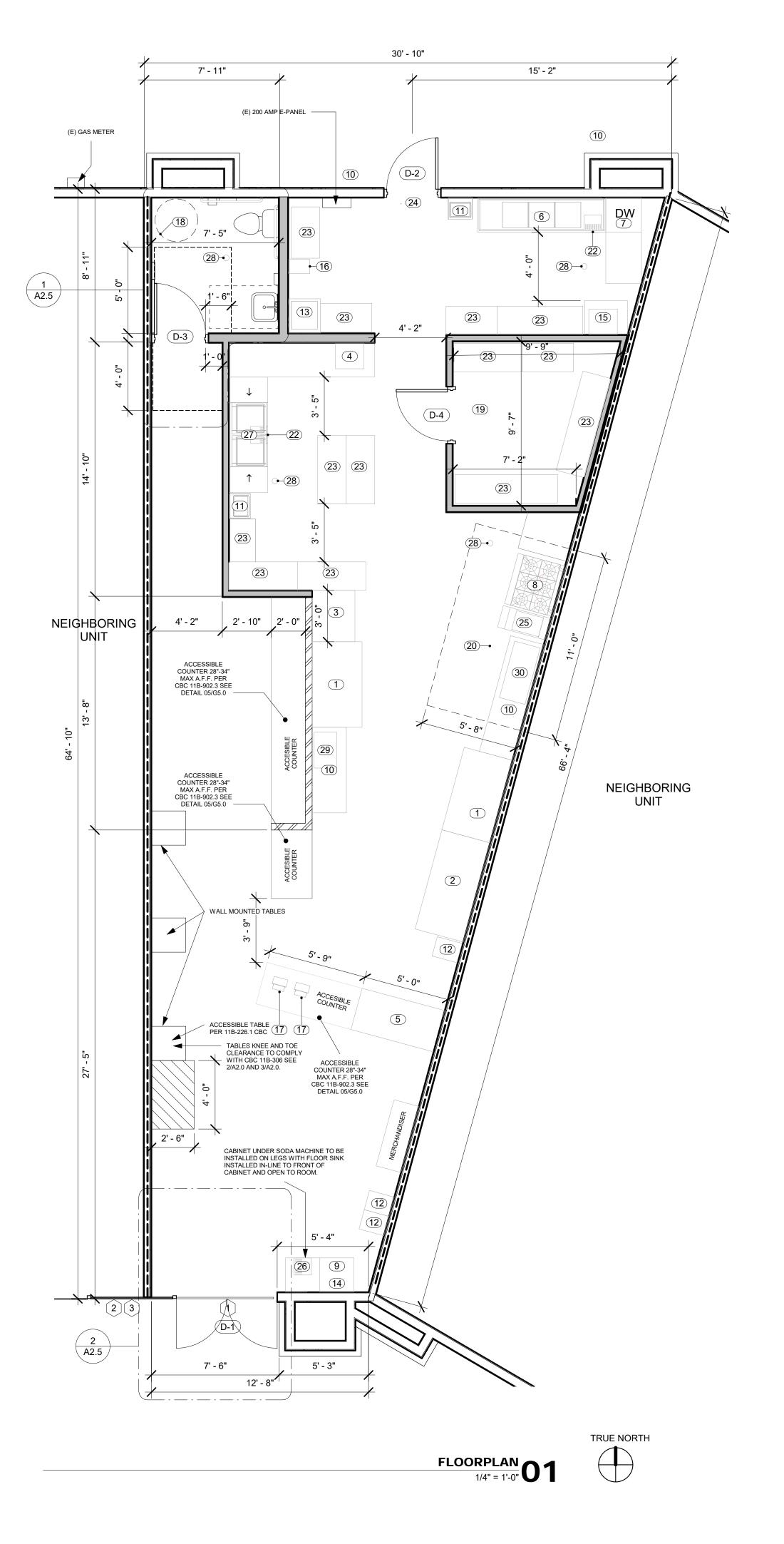
- 13. (114276(C1)) THE RESTROOM DOORS SHALL BE TIGHT FITTING AND EQUIPPED WITH SELF-CLOSING DEVICES AND SHALL BE KEPT CLOSED EXCEPT DURING CLEANING AND MAINTENANCE OPERATIONS.
- 14. (114149(B)) ALL RESTROOMS SHALL BE PROVIDED WITH VENTILATION TO THE OUTSIDE. IF SCREENED WINDOW OPENING OR AIRSHAFT CANNOT PROVIDE ADEQUATE VENTILATION, MECHANICAL VENTILATION IS THEN REQUIRED TO BE INTERCONNECTED WITH THE LIGHT SWITCH.
- 15. (114259) ALL EXTERIOR DOORS MUST BE EQUIPPED WITH APPROVED SELF-CLOSING DEVICES, EXCEPT FOR "OUTDOOR/OPEN AIR" OPERATIONS OTHERWISE APPROVED BY THIS DEPARTMENT. EACH DOOR MUST BE TIGHT-FITTING AND HINGED TO A SOLID WALL, AND NO DOOR STOPPERS SHALL EVER BE USED. WHERE MULTIPLE SETS OF FRENCH DOORS/DOUBLE DOORS ARE PROPOSED, ONE DOOR OF EACH SET MUST BE PERMANENTLY FIXED IN AN APPROVED MANNER SUCH THAT THE HINGES ARE REMOVED AND THE PERMANENTLY FIXED PANEL CAN NO LONGER OPERATE AS A DOOR, BUT MAY STILL RETAIN THE ARCHITECTURAL LOOK OF A FRENCH DOOR SET FROM THE EXTERIOR OF THE BUILDING FOR AESTHETIC REASONS.

GENERAL NOTES

- ALL DRAINPIPES AND ALL HOT WATER PIPES BENEATH LAVATORIES ARE TO BE INSULATED OR OTHERWISE COVERED. CBC 111.5.B
- DIMENSIONING:
- ALL DIMENSIONS ARE TO FACE OF STUD U.N.O.
- DOORS AT CORNERS OR NEAR INTERSECTIONS OF PERPENDICULAR WALLS ARE LOCATED 4" FROM FACE OF STUD TO FACE OF JAMB U.N.O.
- AREAS CONSIDERED SPECIFIC HAZARDOUS LOCATIONS SHALL REQUIRE SAFETY GLAZING MATERIALS. SEE GLAZING NOTES ON THE WINDOW AND DOOR SCHEDULE FOR A DETAILED EXPLINATION OF LOCATIONS
- HABITABLE SPACES, OTHER THAN KITCHENS SHALL HAVE A CLEAR PASSAGEWAY OF NOT LESS THAN 3'-0" BETWEEN COUNTER FRONTS AND APPLIANCES OR COUNTER FRONTS AND WALLS.
- HALLS AND STAIRWAYS SHALL HAVE A MINIMUM CLEAR WIDTH OF 36".
- INSTALL MOISTURE RESISTANT G.W.B. ON ALL WALLS IN KITCHENS, BATHROOMS. AND ROOMS SUBJECT TO WET CONDITIONS.
- SIZE OF TOP AND BOTTOM LANDINGS: TOP LANDINGS SHALL BE NOT LESS THAN 60 INCHES (1524 MM) WIDE AND SHALL HAVE A LENGTH OF NOT LESS THAN 60 INCHES (1524 MM) IN THE DIRECTION OF RAMP RUN. LANDINGS AT THE BOTTOM OF RAMPS SHALL HAVE A DIMENSION IN THE DIRECTION OF RAMP RUN OF NOT LESS THAN 72 INCHES (1829 MM).
- 10. PROVIDE AN APPROVED PORTABLE FIRE EXTINGUISHER WITH A 2A RATING IN A RECESSED, WINDOWED FIRE EXTINGUISHER CABINET.
- 11. ACCESS. AN ATTIC OR UNDER-FLOOR SPACE IN WHICH AN APPLIANCE IS INSTALLED SHALL BE ACCESSIBLE THROUGH AN OPENING AND PASSAGEWAY AT LEAST AS LARGE AS THE LARGEST COMPONENT OF THE APPLIANCE, AND NOT LESS THAN TWENTY- TWO (22) INCHES X THIRTY (30) INCHES (560 MM X 760 MM).
- 12. OCCUPIABLE SPACES, HABITABLE SPACE AND CORRIDORS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-6". BATHROOMS, TOILET ROOMS, KITCHENS, STORAGE ROOMS AND LAUNDRY ROOMS MAY HAVE A CEILING HEIGHT OF NOT LESS
- 13. REPAIR AND REPLACE ANY FIREPROOFING DAMAGED DURING CONSTRUCTION.

ACCESSIBILITY NOTES

- 1. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED. A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. [§11B-404.2.10 CBC]
- 2. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. [§ 11B-302.1 CBC]
- 3. [§11B-226 CBC] DINING AND WORK SURFACES:
- A. WHERE DINING SURFACES ARE PROVIDED, AT LEAST 5 PERCENT OF THE SEATING AND STANDING SPACES AT THE DINING SURFACES SHALL COMPLY WITH 11B-902.
- B. THE TOPS OF TABLES AND COUNTERS SHALL BE 28" MINIMUM TO 34" MAXIMUM FROM THE FLOOR OR GROUND. C. IF SEATING FOR PERSONS IN WHEELCHAIRS IS PROVIDED AT FIXED TABLES OR COUNTERS, KNEE SPACES AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP SHALL BE
- PROVIDED AND COMPLY WITH 11B-306. D. WHERE FOOD IS SERVED AT A COUNTER EXCEEDING 34" IN HEIGHT. A PORTION OF THE MAIN COUNTER 60" IN LENGTH SHALL BE PROVIDED IN COMPLIANCE WITH SECTION 11B-902.3.
- 4. [§11B-227 CBC] SALES & SERVICE:
- A. WHERE PROVIDED, AT LEAST ONE ACCESSIBLE COUNTER SHALL BE PROVIDED AND COMPLY WITH 11B-904.4. [§11B-227.3 CBC]
- B. COUNTERS SHALL BE 36" LONG MINIMUM, AND 28" MIN. AND 34" HIGH MAX. ABOVE THE FINISH FLOOR. [§11B-902.3 CBC]
- C. COUNTERS 36" WIDE MINIMUM SHALL BE PROVIDED WITH A PARALLEL OR FORWARD APPROACH, WITH FLOOR CLEARANCES PER 11B-305. FORWARD APPROACHES SHALL ALSO BE PROVIDED WITH THE KNEE AND TOE CLEARANCES OF 11B-306. [§ 11B-904.4.1 CBCl
- D. THE ACCESSIBLE PORTION OF THE COUNTER TOP SHALL EXTEND THE SAME DEPTH AS THE SALES OR SERVICE COUNTER TOP. [§11B-904.4 CBC]

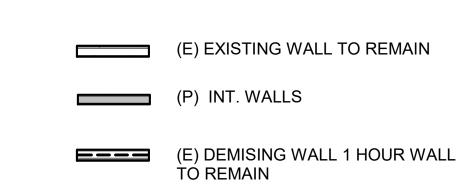


DRY FOOD STORAGE

DRY STORAGE TOTAL LINEAL FEET = 32' MIN. TOTAL FOOD PREP SPACE = 405 SQ. FT. X 25% = 101 SQ. FT. OF DRY FOOD STORAGE REQUIRED

DRY FOOD STORAGE PROVIDED = 169 SQ. FT.

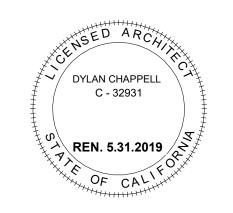
WALL LEGEND



(P) 48" HIGH WALL W/ 18" GLASS

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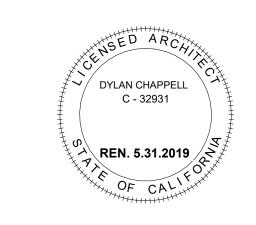
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FLOORPLAN

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ON VENTU PARK RD. U
HOUSAND OAKS, CA 913

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T-BAR NOTES

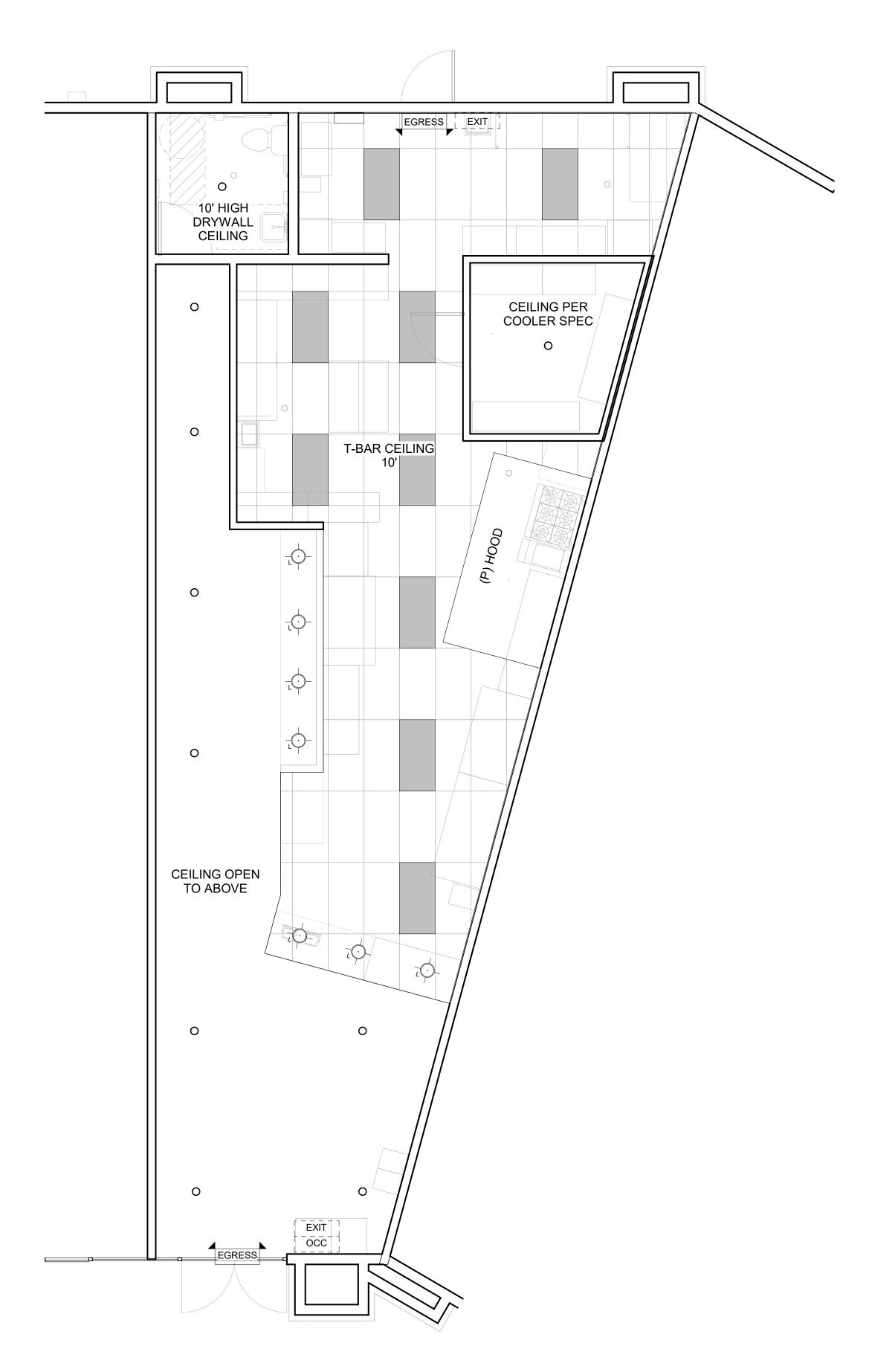
LATERAL BRACING FOR SUSPENDED CEILING MUST BE PROVIDED. WHERE THE CEILING IS NOT SUPPORTED INTERIOR PARTITIONS, CEILING BRACING SHALL BE PROVIDED BY FOUR NO. 12 GAUGE WIRES SECURED TO THE MAIN RUNNER WITHIN 2 INCHES OF THE CROSS RUNNER INTERSECTING AND SPLAYED 90 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLAN OF THE CEILING. A STRUCT (ADEQUATE TO RESIST THE VERTICAL COMPONENT FROM LATERAL LOADS) FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS OF THE ROOF OR FLOOR ABOVE. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12 FT. ON CENTER IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6FT. OF EACH WALL. ATTACHMENT OF THE RESTRAINT WIRES TO THE STRUCTURE ABOVE SHALL BE ADEQUATE FOR THE LOAD IMPOSED. OTHERWISE, PROVIDE A STRUCTURAL DESIGN. [808 CBC]

SUSPENDED CEILINGS IN SEISMIC DESIGN CATEGORIES D, E, AND F SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ASTM C635, ASTM C636, AND ASTM E580 SECTION 5 AS MODIFIED BY THE FOLLOWING: [13.5.6.2.2 ASCE 7-10]

- a. A HEAVY DUTY T-BAR GRID SYSTEM SHALL BE USED.
- b. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2 INCHES.
- c. FOR CEILING AREAS EXCEEDING 2500 SQ. FT. A SEISMIC SEPARATION JOIN OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING UP INTO AREAS NOT EXCEEDING 2500 SQ. FT. SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSES ARE PREFORMED.
- d. SPRINKLER HEADS AND OTHER PENETRATIONS SHALL HAVE A 2 INCH OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST 1 INCH IN ALL HORIZONTAL DIRECTIONS.
- e. CHANGES IN CEILING PLAN ELEVATION SHALL BE PROVIDED WITH POSITIVE BRACING.
- f. LIGHT FIXTURES, CABLE TRAYS AND ELECTRICAL CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING.
- g. SUSPENSION WIRES SHALL NOT BE SMALLER THAN NO. 12 GAUGE SPACED AT 4 FEET ON CENTER.
- h. SUSPENSION WIRES SHALL NOT HANG MORE THAN 1 IN 6 OUT OF PLUMB
- THE PERIMETER ENDS OF EACH CROSS RUNNER AND MAIN RUNNER SHALL BE SUPPORTED A MAXIMUM OF 8" FROM WALL.
- LATERAL FORCE BRACING MEMBERS SHALL BE SPACED A MINIMUM OF 6" FROM ALL HORIZONTAL PIPING OR DUCT WORK.

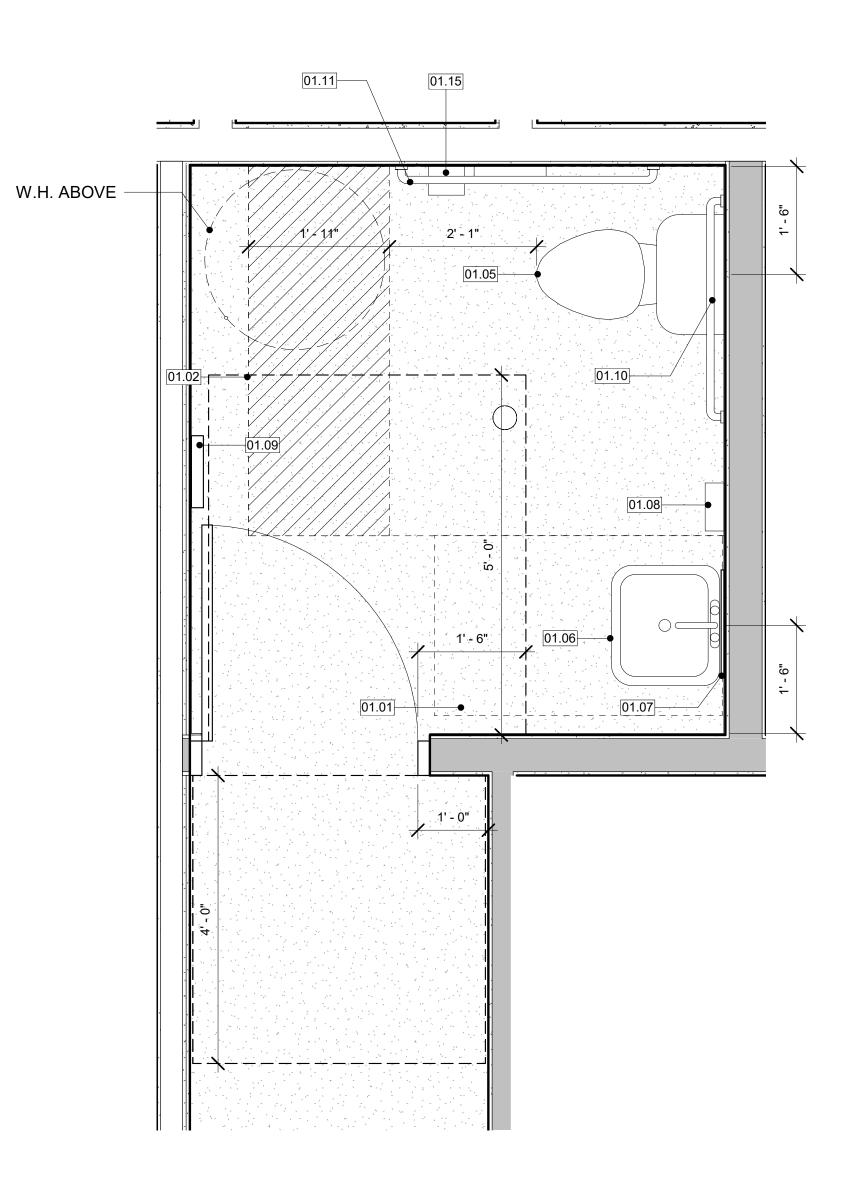
LIGHTING LEGEND

SEE E0.1 & E2.0 FOR LIGHTING PLAN LIGHTING PER ELECTRIC ENGINEER



KEYNOTE LEGEND

- 01.01 CLEAR FLOOR SPACE AT LAVATORY, SEE DETAIL G5.2
- 01.02 CLEAR FLOOR SPACE AT TOILET, SEE DETAIL G5.2 01.05 WATER CLOSET ACCESSIBLE FLOOR-MOUNT WITH TOP OF SEAT AT
- 18" A.F.F., MAX 1.28 GPF, ELONGATED BOWL. SEE SHEET G5.2 01.06 LAVATORY WALL-MOUNT WITH SELF-CLOSING METERING FAUCET, MAX 0.4 GPM, MOUNTED WITH RIM AT 34" MAX A.F.F., SEE ACCESSIBILITY REQUIREMENTS ON SHEET G5.2. INSULATE EXPOSED WATER AND WASTE PIPES BELOW LAV.
- 01.07 MIRROR MOUNTED ABOVE LAVATORY, 18" X 36". SEE MOUNTING HEIGHT REQUIREMENTS ON SHEET G5.2
- 01.08 SOAP DISPENSOR WALL MOUNT SEE MOUNTING HEIGHT
- REQUIREMENTS ON SHEET G5.2 01.09 PAPER TOWEL DISPENSOR SEMI-RECESSED WITH OPERABLE
- MECHANISM AT 40" A.F.F. MAX AND WASTE RECEPTACLE BELOW. BOBRICK B-3944, 4-1/8" MAX PROJECTION FROM WALL SURFACE. 01.10 GRAB BAR HORIZONTAL ; 36" MIN LENGTH . HEIGHT AND LOCATION
- PER PLAN, AND PER ACCESSIBILITY REQUIREMENTS SHEET G5.2 01.11 GRAB BAR HORIZONTAL ; 42" MIN LENGTH . HEIGHT AND LOCATION
- PER PLAN, AND PER ACCESSIBILITY REQUIREMENTS SHEET G5.2
- 01.15 TOILET PAPER DISPENSOR SEE SHEET G5.2



ENLARGED ACCESSIBILITY PLAN

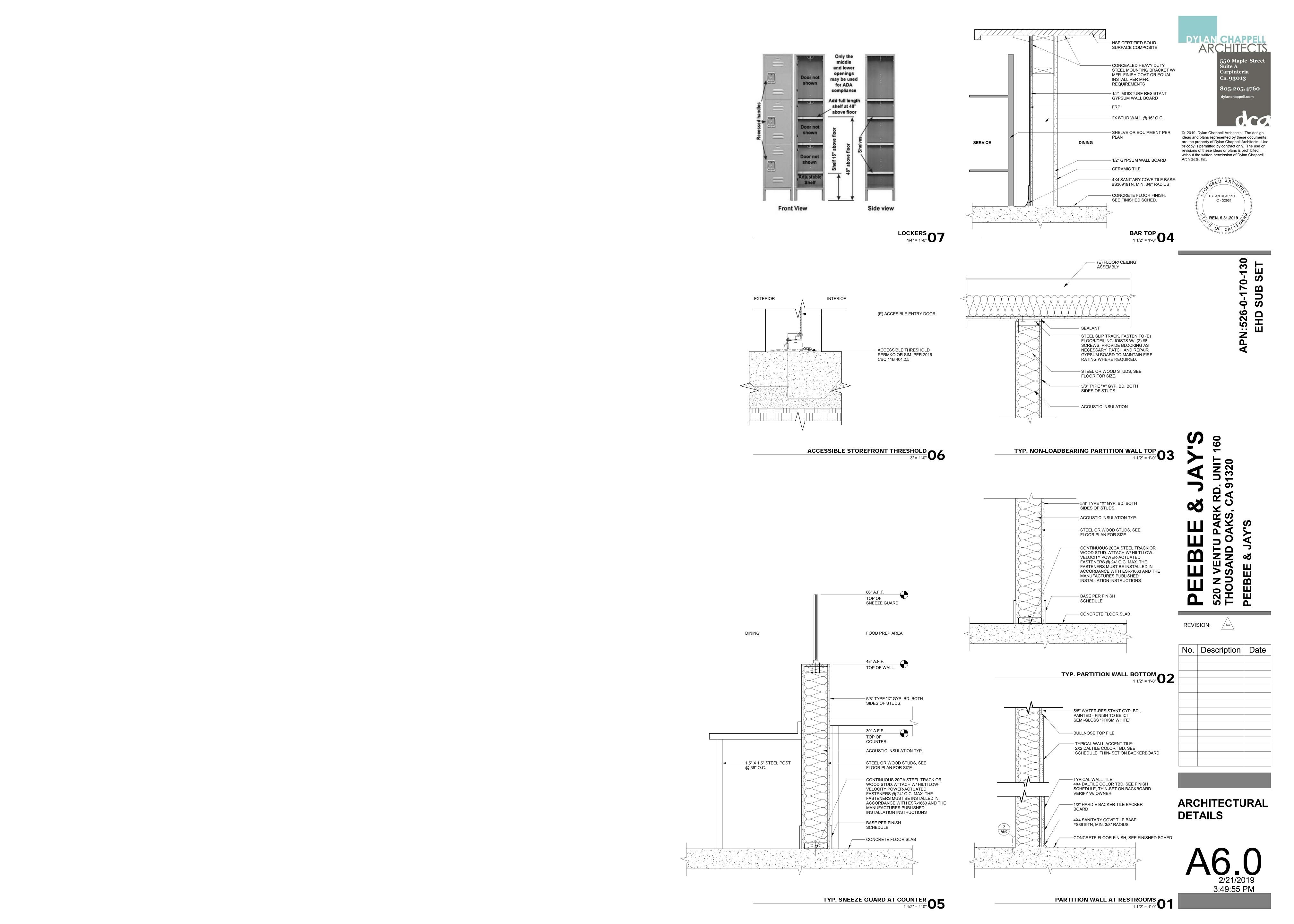
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CLEAR FLOOR AREA PER TABLE CBC 11B-404.2.4.1

PER TABLE CBC 11B-404.2.4.1 CLEAR FLOOR AREA



				DOOR SCHEDULE	
Mark	Width	Height	Panic Hardware	Glazing Notes	Comments
D-1	5' - 10 3/4"	7' - 0 3/4"			(E) TO REMAIN
D-2	3' - 0"	7' - 0"			(E) TO REMAIN
D-3	3' - 0"	6' - 8"			(N) ACCESSIBLE BATHROOM DOOR
D-4	3' - 0"	6' - 8"			COOLER DOOR BY MANUFACTURER

				WINDOW SCHEDULE	
Mark	Width	Height	Туре	Glazing Notes	Comments
1	5' - 8 1/4"	4' - 6 1/4"	Fixed Aluminum Window		(E) TO REMAIN
2	4' - 9 1/2"	4' - 6 1/4"	Fixed Aluminum Window		(E) TO REMAIN
3	4' - 9 1/2"	7' - 0 3/4"	Fixed Aluminum Window		(E) TO REMAIN

WINDOWS

- A ALL GLAZING TO BE GL-5 U.N.O.
- B ALL GLAZING WITH IN 18" OF FLOOR AND EITHER SIDE OF DOOR SHALL BE
- TEMPERED, GL-ST U.N.O.
 C DIMENSIONS ARE TO EDGE OF MULLION U.N.O.
- D ALL SILL HEIGHTS ARE TAKEN FROM FINISH FLOOR LEVEL U.N.O.
- E ALL FRAMES TO BE PAINTED PT-1 0 U.N.O.
 F FOR ALL COLD FORMED STEEL FRAMING, PROVIDE DESIGN AS REQUIRED IN SPECIFICATIONS.
- G ALL EXTERIOR ALUMINUM WINDOW FRAME ASSEMBLIES AT CONDITIONED SPACES TO HAVE THERMAL BREAK

DOORS

- ALL GLASS WITHIN 18" OF FLOOR, EITHER SIDE OF DOOR AND IN DOOR,
- SHALL BE TEMPERED GLAZING.

 C DOOR OPENING FORCE SHALL NOT EXCEED 5 LBS.
- E 'H' SEE DOOR SCHEDULE FOR HEIGHT

INCHES. BUILDING CODE 1008.1.1

'W SEE DOOR SCHEDULE FOR WI DTH.

MINIMUM WIDTH OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE
OCCUPANT LOAD THEROF AND SHALL PROVIDE A CLEAR WIDTH OF NOT LESS
THAN 32 INCHES. THE HEIGHT OF DOORS SHALL NOT BE LESS THAN 80

SAFETY GLAZING

2406.3 IDENTIFICATION OF SAFETY GLAZING. EXCEPT AS INDICATED IN SECTION 2406.3.1, EACH PANE OF SAFETY GLAZING INSTALLED IN HAZARDOUS LOCATIONS SHALL BE IDENTIFIED BY A MANUFACTURERS DESIGNATION SPECIFYING WHO APPLIED THE DESIGNATION, THE MANUFACTURER OR INSTALLER AND THE SAFETY GLAZING STANDARD WITH WHICH IT COMPLIES, AS WELL AS THE INFORMATION SPECIFIED IN SECTION 2403 .1. THE DESIGNATION SHALL BE ACID ETCHED, SAND BLASTED, CERAMIC FIRED, LASER ETCHED, EMBOSSED OR OF A TYPE THAT ONCE APPLIED, CANNOT BE REMOVED WITHOUT BEING DESTROYED. A LABEL AS DEFINED IN SECTION 202 AND MEETING THE REQUIREMENTS OF THIS SECTION SHALL BE PERMITTED IN LIEU OF THE MANUFACTURER'S. DESIGNATION,

2406.4 HAZARDOUS LOCATIONS. THE LOCATIONS SPECIFIED IN SEC- SECTIONS 2406.4.1 THROUGH 2406.4.7 SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS REQUIRING SAFETY GLAZING MATERIALS.

2406.4.1 GLAZING IN DOORS. GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING, AND BIFOLD DOORS SHALL BE CONSIDERED A HAZARDOUS LOCATION.

2406.4.2 GLAZING ADJACENT TO DOORS. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEARES VERTICAL EDGE OF THE GLAZING IS WITHIN A 24-INCH (610 MM) ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHEN THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES (1524 MM) ABOVE THE WALKING SURFACE SHALL BE CONSIDERED A HAZARDOUS LOCATION.

2406.4.3 GLAZING IN WINDOWS. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS SHALL BE CONSIDERED A HAZARDOUS LOCATION:

- 1. THE EXPOSED AREA OF AN INDIVIDUAL PANE IS GREATER THAN 9 SQUARE FEET (0.84
- M2);
 2. THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18 INCHES (457 MM) ABOVE THE
- FLOOR;
 3. THE TOP EDGE OF THE GLAZING IS GREATER THAN 36 INCHES (914 MM) ABOVE THE FLOOR: AND
- 4. ONE OR MORE WALKING SURFACES(S) ARE WITHIN 36 INCHES (914 MM). MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE PLANE OF THE GLAZING.

2406.4.4 GLAZING IN GUARDS AND RAILINGS. GLAZING IN GUARDS AND RAILINGS, INCLUDING STRUCTURAL BALUSTER PANELS AND NON-STRUCTURAL IN-FILL PANELS, REGARDLESS OF AREA OR HEIGHT ABOVE A WALKING SURFACE SHALL BE CONSIDERED A HAZARDOUS LOCATION.

2406.4.5 GLAZING AND WET SURFACES. GLAZING IN WALLS, ENCLOSURES OR FENCES CONTAINING OR FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES (1524 MM) MEASURED VERTICALLY ABOVE ANY STANDING OR WALKING SURFACES SHALL BE CONSIDERED A HAZARDOUS LOCATION. THIS SHALL APPLY TO SINGLE GLAZING AND ALL PANES IN MULTIPLE GLAZING.

2406.4.6 GLAZING ADJACENT TO STAIRS AND RAMPS. GLAZING WHERE THE BOTTOM EXPOSED. EDGE OF THE GLUING IS LESS THAN 60 INCHES (1524 MM) ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS, AND RAMPS SHALL BE CONSIDERED A HAZARDOUS LOCATION.

2406.4.7 GLAZING ADJACENT TO THE BOTTOM STAIR LANDING. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36 INCHES (914 MM) ABOVE THE LANDING AND WITHIN 60 INCHES (1524 MM) HORIZONTALLY OF THE BOTTOM TREAD SHALL BE CONSIDERED A HAZARDOUS LOCATION.

2406.4.5 FIRE DEPARTMENT ACCESS PANELS. FIRE DEPARTMENT GLASS ACCESS PANELS SHALL BE OF TEMPERED GLASS. FOR INSULATING GLASS UNITS, ALL PANES SHALL BE TEMPERED GLASS.

DOORS (PER 1008 CBC - CHAPTER 11B - CHAPTER 7)

008.1.1 SIZE OF DOORS. THE MINIMUM WIDTH OF EACH DOOR OPENING SHALL BE SUFFICIENT FOR THE OCCUPANT LOAD THERE OF AND SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (813 MM). CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES (1.57 RAD). "WHERE THIS SECTION REQUIRES A MINIMUM CLEAR WIDTH OF 32 INCHES (813 MM) AND A DOOR OPENING INCLUDES TWO DOOR LEAVES WITHOUT A MULLION, ONE LEAF SHALL PROVIDE A CLEAR OPENING WIDTH OF 32 INCHES(813 MM). THE MAXIMUM WIDTH OF A SWINGING DOOR LEAF SHALL BE 48 INCHES (1219 MM) NOMINAL.

1008.1.1.1 PROJECTIONS INTO CLEAR WIDTH. THERE SHALL NOT BE PROJECTIONS INTO THE REQUIRED CLEAR WIDTH LOWER THAN 34 INCHES (864 MM) ABOVE THE FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (864 MM) AND 80 INCHES (2032 MM) ABOVE THE FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (102 MM)

1008.1.3 DOOR OPENING FORCE. THE FORCE FOR PUSHING OR PULLING OPEN INTERIOR SWINGING EGRESS DOORS, OTHER THAN FIRE DOORS, SHALL NOT EXCEED 5 POUNDS (22 N). FOR OTHER SWINGING DOORS, AS WELL AS SLIDING AND FOLDING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A IS-POUND (67 N) FORCE. THE DOOR SHALL BE SET IN MOTION WHEN SUBJECTED TO A 30-POUND (133 ~FORCE.THE DOOR SHALL SWING TO A FULL- OPEN POSITION WHEN SUBJECTED TO A IS-POUND (67 N) FORCE.

1008.1.3.1 LOCATION OF APPLIED FON-E.S. FORCES SHALL BE APPLIED TO THE LATCH SIDE OF THE DOOR.
1008.1.5 FLOOR ELEVATION. THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF A DOOR. SUCH FLOOR OR LANDING SHALL BE AT THE SAME ELEVATION ON EACH SIDE OF THE DOOR. LANDINGS SHALL BE LEVEL EXCEPT FOR EXTERIOR LANDING, WHICH ARE PERMITTED TO HAVE A SLOPE NOT TO EXCEED 0.25 UNIT VERTICAL IN 12 UNITS HORIZONTAL (2-PERCENT SLOPE).

1008.1.6 LANDINGS AT DOORS. LANDINGS SHALL HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE STAIRWAY OR THE DOOR, WHICH- EVER IS GREATER. DOORS IN THE FULLY OPEN POSITION SHALL NOT REDUCE A REQUIRED. DIMENSION BY MORE THAN 7 INCHES (178 MM). WHEN A LANDING SERVES AN OCCUPANT LOAD OF 50 OR MORE.DOORS IN ANY POSITION SHALL NOT REDUCE THE LANDING TO LESS THAN ONE-HALF ITS REQUIRED WIDTH. LANDINGS SHALL HAVE A LENGTH MEASURED IN THE DIRECTION OF TRAVEL OF NO LESS THAN 44 INCHES (1118 MM)

1008.1.7 THRESHOLDS. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED INCH (19 .1 MM) IN HEIGHT ABOVE THE FINISHED FLOOR OR LANDING FOR SLIDING DOORS SERVING DWELLING UNITS OR 1/2 INCH (12 .7 MM) ABOVE THE FINISHED FLOOR OR LANDING FOR OTHER DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES GREATER THAN 1/4 INCH (6.4 MM) AT DOORWAYS SHALL BE BEVELED WITH A SLOPE NOT GREATER THAN ONE UNIT VERTICAL IN TWO UNITS HORIZONTAL (SO-PERCENT SLOPE).

1008.1.9 DOOR OPERATIONS. EXCEPT AS SPECIFICALLY PERMITTED BY THIS SECTION EGRESS DOORS SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. 1008.1.9.1 HARDWARE. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE BY CHAPTER IIA OR 11B SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.

1008.1.9.2 HARDWARE HEIGHT. DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34 INCHES (864 MM) MINIMUM AND 48 INCHES (1219 MM) MAXIMUM ABOVE THE FINISHED FLOOR. LOCKS USED ONLY FOR SECURITY PURPOSE AND NOT USED FOR NORMAL OPERATION ARE PERMITTED AT ANY HEIGHT.

11B-206.S DOORS, DOORWAYS, AND GATES. DOORS, DOORWAYS AND GATES PROVIDING USER PASSAGE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 11 R-206.5.

11B-206.S.1 ENTRANCES. EACH **ENTRANCE** TO A BUILDING OR FACILITY REQUIRED TO COMPLY WITH SECTION 11B-206.4 SHALL COMPLY WITH SECTION 11B-404.

11B-206.S.2 ROOMS AND SPACES. WITHIN A BUILDING OR FACILITY, EVE,)! DOOR, DOORWAY OR GATE SERVING ROOMS AND SPACES COMPLYING WITH THIS CHAPTER SHALL COMPLY WITH SECTION 11B-404.

11B-303 CHANGES IN LEVEL.

11B-303.1 GENERAL. WHERE CHANGES IN LEVEL ARE PERMITTED IN FLOOR OR GROUND SURFACES, THEY SHALL COMPLY WITH SECTION 11B- 303.

11B-303.2 VERTICAL. CHANGES IN LEVEL OF 1/4 INCH (6.4 MM) HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT.

11B-404.2 MANUAL DOORS, DOORWAYS, AND MANUAL GATES. MANUAL DOORS AND DOORWAYS AND MANUAL GATES INTENDED FOR USER PASSAGE SHALL COMPLY WITH SECTION 11B-404.2.

11B-404.2.1 REVOLVING DOORS, GATES, AND TURNSTILES. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE.

11B-404.2.2 DOUBLE-LEAF DOORS AND GATES. AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH SECTIONS 11B-404.2.3 AND 11B-404.2.4.

11B-404.2.3 CLEAR WIDTH. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (813 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (914 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES (864 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES (864 MM) AND 80 INCHES (2032 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (102 MM).

11B-404.2.4 MANEUVERING CLEARANCES. MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH SECTION 11B-4042.4. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE:.

11B-404.2.9 DOOR AND GATE OPENING FORCE. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS:

1. INTERIOR HINGED DOORS AND GATES: 5 POUNDS (22.2 N) MAXIMUM.

2. SLIDING OR FOLDING DOORS: 5 POUNDS (222 K) MAXIMUM.3. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE

44 inches (1118 mm)4

24 inches (610 mm)

AUTHORITY, NOT TO EXCEED 15 POUNDS (66,7 N).
4. EXTERIOR HINGED DOORS: 5 POUNDS (22.2 N) MAXIMUM,

TABLE 11B-404.2.4.1 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES TYPE OF USE MINIMUM MANEUVERING CLEARANCE Approach direction Door or gate side Perpendicular to doorway beyond latch side unless noted) Pull From front 60 inches (1524 mm) 18 inches (457 mm)⁵ From front 48 inches (1219 mm) 0 inches (0 mm)1 From hinge side 60 inches (1524 mm) 36 inches (914 mm) 22 inches (559 mm)³ Push 44 inches (1118 mm)2 From hinge side 60 inches (1524 mm) From latch side 24 inches (610 mm)

- Add 12 inches (305 mm) if closer and latch are provided.
 Add 4 inches (102 mm) if closer and latch are provided.
- 3. Beyond hinge side.
 4. Add 4 inches (102 mm) if closer is provided.
- 5. Add 6 inches (152 mm) at exterior side of exterior doors.

11B-309 OPERABLE PARTS

11B-404.2.8.

From latch side

11B-309.1 GENERAL. OPERABLE PARTS SHALL COMPLY WITH SECTION 11B-309.

LLB-309.2 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH SECTION 11B-305 SHALL BE PROVIDED.

11B-309.3 HEIGHT. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN SECTION 11 B-308.

11B-309.4 OPERATION. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE *5* POUNDS (22.2 N) MAXIMUM.

LLB-404.2.5 THRESHOLDS. THRESHOLDS, IF PROVIDED AT DOOR- WAYS, SHALL BE 1/2 INCH (12.7

COMPLY WITH SECTIONS 11B-302 AND 11B-303.

11B-404.2.7 DOOR AND GATE HARDWARE. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH SECTION 11B-309.4. OPERABLE

MM) HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL

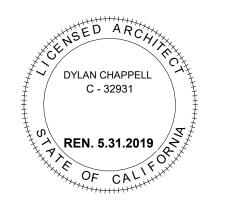
MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

118-404.2.8 CLOSING SPEED. DOOR AND GATE CLOSING SPEED SHALL COMPLY WITH SECTION

PARTS OF SUCH HARDWARE SHALL BE 34 INCHES (864 MM) MINIMUM AND 44 INCHES (1118 MM)



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APN:526-0-170-130 EHD SUB SET

EEBEE & JAY ON VENTU PARK RD. UNIT OUSAND OAKS, CA 91320

^

REVISION:

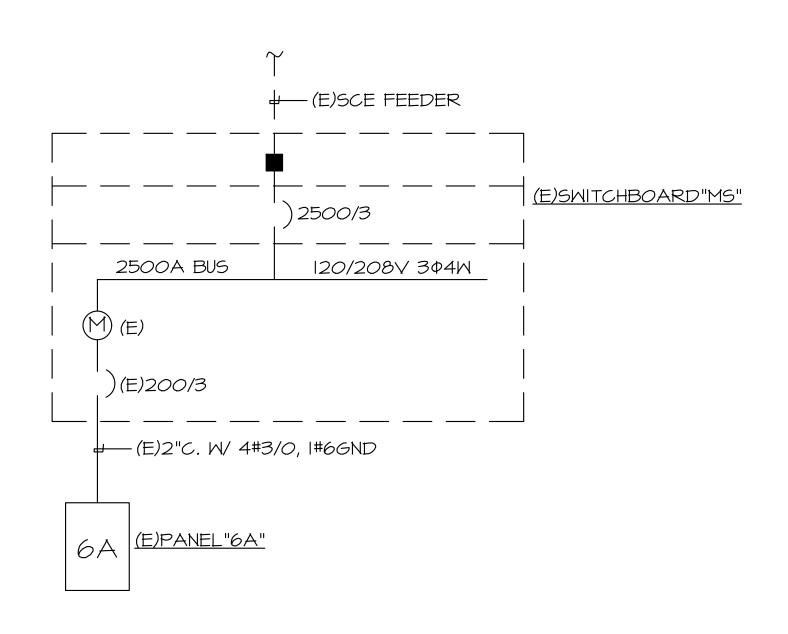
No. Description Date

SCHEDULES

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			LED FIXTUR	E SCHED	ULE		
			LED MODULE				
TYPE	MANUFACTURER AND CATALOG NUMBER	TYPE	COLOR TEMP	WATTS	DRIVER	OPTIC/LENS	REMARKS
$\left\langle \begin{array}{c} A \\ 10 \end{array} \right\rangle$	JUNO SLIMFORM JSF-5-30K-120-WH	LED	3000K	10	120V	DIFFUSE	SURFACE MOUNT 5" DOWNLIGHT
B 60	F.B.O.						DECORATIVE PENDANT
C 40	LITHONIA GTL 2GTL4-40L-SWL-120-GZ1-LP830-ABC	LED	3000K	37	0-10V	ACRYLIC	GASKETED 2X4 LED TROFFER
D 20	JUNO SLIMFORM JSF-13-30K-120-WH	LED	3000K	20	120V	DIFFUSE	RESTROOM CEILING LIGHT
E 10	LITHONIA ECC ECC GMCO	LED		2/5	NICAD BATTERY	GREEN	EXIT SIGN/EM LIGHT WITH 90 MIN. BATTERY BACKUP

RVICE: 120/208V 3Ф	4W		MAIN B	KR.:	ML	.0	<u> </u>			CHED			S: 20	00A					LOC.: SEE	PLAN
												1							MTG.: SUR	FACE
REMARKS		LOAD		R E	L T	M I	P 0	T R	С	C	T R	P 0	R E	L T	M I		LOAD		REM	ARKS
	ФА	ФВ	ФС	С	G	S	L E	l P	R C	R	l P	L	С	G	S C	ФА	ФВ	ФС		,
SPARE							1	60	1	2	20	1							SP.	ARE
									3	4				1			100		W/I I	LIGHT
+								V	5	6	\		1					800	FRE	EZER
GEN REC	540			3				20	7	8	50		1			1200			5FT DE	ELI TOP
POS REGISTERS		540		3					9	10	50		1				1200		5FT DE	ELI TOP
LIGHTS			910		20				11	12	50		1					1200	6FT DE	ELI TOP
DISHWASHER	800			1					13	14	30		1			300			FR'	YER
ICED TEA MACHINE		1500		1					15	16	20		1				180		PREP	TABLE
MEAT SLICER			300	1					17	18	20	₩	2					360	COUNT	ER REC
AIR CURTAIN	600					1			19	20	40	3			1	4320			AC	C-6A
BATH FAN		100				1			21	22							4320			
SIGN CIRCUIT			1200			1	\	\blacksquare	23	24								4320	,	₩
SUPPLY FAN	718					1	3	20	25	26	20	1				1200			SOUP V	VARMER
		718							27	28									SP	ARE
\			718						29	30										
KITCHEN EF	718					1	3	20	31	32										
		718							33	34										
₩			718						35	36										
CONDENSING UNIT	800					1	2	20	37	38										
"		800					_		39	40										
KITCHEN REC			360	2			1	20	41	42	_ '	▼							•	♦
OTAL WATTS= 32258				ФА=	1119	96					ФВ=	= 101	76					ФС=	10886	



PARTIAL SINGLE LINE DIAGRAM

SCALE: NONE

GENERAL NOTES

- I. VISIT JOB SITE AND VERIFY EXISTING CONDITIONS PRIOR TO BID.
- 2. THE ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2016 CALIFORNIA ELECTRICAL CODE AND ALL APPLICABLE LOCAL ORDINANCES. WHERE PLANS CALL FOR A HIGHER STANDARD THAN APPLICABLE CODES, THE PLANS SHALL GOVERN.
- 3. CONDUIT RUNS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS.
- 4. ALL ELECTRICAL EQUIPMENT, APPLIANCES AND LIGHTING FIXTURES SHALL BE LISTED BY A RECOGNIZED TEST LAB AND BEAR THAT LABEL OF APPROVAL.
- 5. CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL MATERIAL AND EQUIPMENT FOR THIS WORK UNLESS OTHERWISE NOTED.
- 6. FURNISH DISCONNECT SWITCHES AT REMOTE MOTORS.
- 7. ALL SPACES AS INDICATED ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSSING FOR FUTURE BREAKER OR SWITCH.
- 8. CHECK ARCHITECTURAL PLANS FOR DOOR SWINGS BEFORE INSTALLING SWITCH OUTLETS.
- 9. GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS SPECIFIED OR SHOWN ON DRAWINGS.
- II. THESE PLANS ARE NOT COMPLETE UNTIL APPROVED BY THE AUTHORITY HAVING JURISDICTION.

10. ALL CONDUIT RUNS SHALL CONTAIN A CODE SIZED GREEN GROUND WIRE.

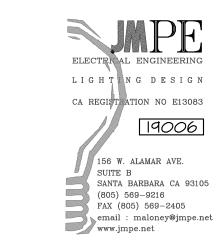
- 12. ALL CONDUCTORS SHALL BE IN CONDUIT.
- 13. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN INSULATION.
- 14. COORDINATE WITH SERVING ELECTRICAL UTILITY COMPANY AND MAKE PROVISIONS FOR ELECTRICAL SERVICE ACCORDINGLY. INCLUDE ALL SERVICE COSTS AND UTILITY COMPANY CHARGES IN BID.
- 15. COORDINATE WITH SERVING TELEPHONE UTILITY COMPANY AND MAKE PROVISIONS FOR TELEPHONE SERVICE ACCORDINGLY. INCLUDE ALL SERVICE COSTS AND ANY UTILITY COMPANY CHARGES IN BID.
- 16. COORDINATE WITH SERVING CABLE TELEVISION COMPANY AND MAKE PROVISIONS FOR CABLE TELEVISION ACCORDINGLY. INCLUDE ALL SERVICE COSTS AND ANY UTILITY COMPANY CHARGES IN BID.
- 17. ALL PERMITS SHALL BE OBTAINED AND PAID FOR BY CONTRACTOR.

SYMBOLS

- - CONDUIT CONCEALED UNDER FLOOR OR BELOW GRADE CONDUIT STUBBED OUT AND CAPPED *co*nduit turned up HATCH MARKS INDICATE NO. OF #12 WIRES IN CODE SIZED CONDUIT (3) MAX. IN 1/2" C., (5) MAX. IN 3/4" C., (3) MAX. IN I"C., NO MARKS = 2 # |2|CIRCUIT(S).

FLUSH FL*OO*R RECEPTACLE \Rightarrow RECEPTACLE, DUPLEX, 15A, 125V, NEMA 5-15R +18" U.N.O.

TELEPHONE/COMPUTER/DATA OUTLET, TWO GANG BOX W/I GANG COVERPLATE & GROMMETED OPENING +18" U.N.O.



NOTES, SYMBOLS, **SCHEDULES** & DETAILS

DYLAN CHAPPELLARCHITECTS

Suite A

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/ DYLAN CHAPPEL

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Carpinteria

Ca. 93013

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dylanchappell.com

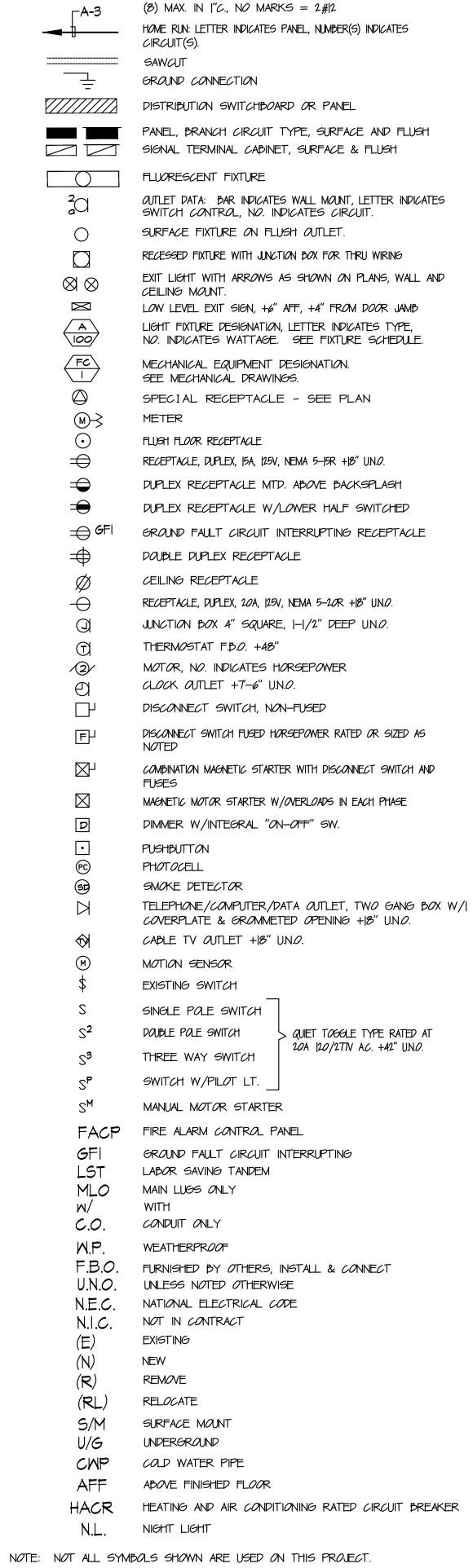
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550 Maple Street





STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTI-01-E
CERTIFICATE OF COMPLIANCE Indoor Lighting (Page 1 of 6)	CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: Date Prepared:	CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: Date Prepared:	CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: Date Prepared:
Project Name: Date Prepared: A. General Information	C. Summary of Allowed Lighting Power	E. Declaration of Required Certificates of Acceptance	G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)
Climate Zone: Conditioned Floor Area: Unconditioned Floor Area:	Conditioned and Unconditioned space Lighting must not be combined for compliance Indoor Lighting Power for Conditioned Spaces Indoor Lighting Power for Unconditioned Spaces	Declare by selecting yes for all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.) YES NO FORM/TITLE	- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
Building Type:	Watts Watts Watts Installed Lighting 01 NRCC-LTI-01-E, Table H, page 5 + NRCC-LTI-01-E, Table H, p	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office - Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance
Phase of Construction: New Construction Addition Alteration Method of Compliance: Complete Building Area Category Tailored	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4 Minus Lighting Control Credits Minus Lighting Control Credits	○ NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. ☐ Field Inspector ○ NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	shall not be traded between offices having different lighting systems. Office Portable Luminaire Schedule Office Installed Portable Luminaire W/ft² Office Location Field Inspector 01 02 03 04 05 06 07 08 09 10
Project Address:	03 NRCC-LTI-02-E, page 2 NRCC-LTI-02-E, page 2 NRCC-LTI-02-E, page 2 Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3) Adjusted Installed Lighting Power (row 1 minus row 3)	A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only	Installed If G06 ≤ 0.3,
B. Lighting Compliance Documents (select yes for each document included) For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.	Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05) Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)	for: CONDITIONED SPACE UNCONDITIONED SPACE	Complete Luminaire Description Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted Watts per Watts in Complete Luminaire Description Watts per Watts per Watts per Watts in Complete Luminaire Description Watts per Watts p
YES NO COMP. DOC. TITLE O NRCC-LTI-01-E Certificate of Compliance. All Pages required on plans for all submittals.	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least Alterations with replacement luminaires that have at least	F. Indoor Lighting Schedule and Field Inspection Energy Checklist The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems. When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.	direct/indirect) Luminaire (G02 x G03) (G04 / G05) (G06-0.3)
NRCC-LTI-02-E Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals. NRCC-LTI-03-E Indoor Lighting Power Allowance NRCC-LTI-04-E Tailored Method Worksheets	50/35%lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2 may instead use the allowed wattage from NRCC-LTI-06, page 2	 □ When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines □ Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-05-E) when line-voltage track lighting is installed. 	
NRCC-LTI-05-E Line Voltage Track Lighting Worksheets NRCC-LTI-06-E Indoor Lighting Existing Conditions	D. Declaration of Required Certificates of Installation Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)		Total installed portable luminaire watts that are greater than 0.3 W/ft² per office: 0
	YES NO Form/Title O NRCI-LTI-01-E - Must be submitted for all buildings		OI-L, Fage 2
	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.		
	overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance. NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a		
	conference room, a multipurpose room, or a theater to be recognized for compliance. NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for		
CAD Sidding Forces FFE single Characteristic Constitution (CAD Sidding Characteristic Constitution)	O Compliance.		
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016
STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS CEC-NRCC-LTI-02-E (Revised 04/17) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS CEC-NRCC-LTI-02-E (Revised 04/17) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: Date Prepared:	CERTIFICATE OF COMPLIANCE Indoor Lighting Project Name: Date Prepared:	CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: Pee Bee & Jay Date Prepared: 1/17/2019	CERTIFICATE OF COMPLIANCE Indoor Lighting - Lighting Controls Project Name: Pee Bee & Jay Date Prepared: 1/17/2019
A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. Legitify that this Cortificate of Compliance decumentation is accurate and complete.	A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)	A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
CONDITIONED SPACE UNCONDITIONED SPACE	1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Documentation Author Signature:	YES NO Control Requirements	☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES
H. Indoor Lighting Schedule and Field Inspection Energy Checklist Luminaire Schedule 01 02 03 04 05 06 07 08	Address: CEA Certification (if applicable): City/State/Zip: Phone:	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.	B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist PAF Credit Calculation 2 PAF Credit Calculation 2 PAF Credit Calculation 2
How wattage was determined Do not be a second of the sec	RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b). One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and	Standards Complying With ¹ Control (11 x Per
Complete Luminaire Description afts be Lie Lie Lie Lie Lie Lie Lie Lie Lie Li	 The information provided on this Certificate of Compliance is true and correct. 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). 	§130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b). A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an	Lighting Control Schedule
F32T8, one dimmable electronic ballast) S	 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. 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. 	Installation Certificate shall be installed in accordance with Section 130.4(b). All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.	Type/ Description of Lighting Control (i.e.: occupancy sensor, # \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1 \$1
	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.	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).	dimmer, automatic daylight, etc) Units 11 (b) 11 (c) 11 (e) 56 (d) 6 (d)
	Responsible Designer Name: Responsible Designer Signature: Company: Date Signed:	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.	STORAGE AUTOMATIC CLOCK + 0 ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ✓ ○ ○ ✓ ○
	Address: License: City/State/Zip: Phone:	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).	DINING
INSTALLED WATTS PAGE TOTAL: 0 Enter sum total of all pages into NRCC-LTI-01-E; Page 2		All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).	0 □ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
		Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans. Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in	IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13): Enter Control Credit total
		Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for	into NRCC-LTI-01-E; Page 1. §130.1(a) = Manual area controls; §130.1(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Automatic Daylight; §130.1(e) = Demand Responsive; §140.6(d) =
		normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compilance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.	Additional lighting controls installed to earn a PAF; §140.6(d) = Prescriptive Secondary Sidelit Daylight Controls. 2. Check Table 140.6-A for correct PAF. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017
STATE OF CALIFORNIA			
INDOOR LIGHTING – LIGHTING CONTROLS CEC-NRCC-LTI-02-E (Revised 04/17) CERTIFICATE OF COMPLIANCE CECTOR COMPLIANCE CALIFORNIA ENERGY COMMISSION NRCC-LTI-02-E	STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE CEC-NRCC-LT-10-3-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE CEC-NRCC-LTI-03-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION
Indoor Lighting - Lighting Controls Project Name: Pee Bee & Jay (Page 3 of 3) Date Prepared: 1/17/2019	CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance Project Name: NRCC-LTI-03-E (Page 1 of 4) Date Prepared:	CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance Project Name: Date Prepared:	CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance Project Name: Date Prepared:
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces	A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:	A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Documentation Author Signature:	A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES	CONDITIONED spaces UNCONDITIONED spaces C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE	☐ CONDITIONED spaces ☐ UNCONDITIONED spaces C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)
Company: JMPE Address: 156. W. ALAMAR AVE. SUITE A Signature Date: CEA Certification (if applicable):	If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts. If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts	 Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E. Separately list lighting for each primary function area as defined in §100.1 of the Standards. 	01 02 03 ² 04 05 06 07 ALLOWED
City/State/Zip: SANTA BARBARA, CA. 93105 RESPONSIBLE PERSON'S DECLARATION STATEMENT Phone: (805) 569-9216	01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page) 0 (b)	01 02 03 04 AREA CATEGORY (From §140.6 Table 140.6-C) WATTS ALLOWED	Primary Sq Ft or Linear ft ¹ Allowed (02 x 03) Sq Ft or Linear ft ¹ Allowed (02 x 03) Sq Ft or Linear ft ¹ Allowed (02 x 03) Sq Ft or Linear ft ¹ Allowed (02 x 03) Sq Ft or Luminaire Types in each Primary Function Area Watts ³ O4 or 06
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).	02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page) 03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1 0 0	Location in Building Primary Function Area per Table 140.6-C PER ft ² X AREA (ft ²) = WATTS 0	
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	Check here if building contains both conditioned and unconditioned areas.		
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	B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE 01 02 03 04		
builder provides to the building owner at occupancy. Responsible Designer Name: Company: JMPE Responsible Designer Signature: Date Signed:	TYPE OF BUILDING (From §140.6 Table 140.6-B) WATTS PER ft ² X COMPLETE BLDG. AREA WATTS O		
Address: 156 W. ALAMAR AVE. SUITE A License: E13083 / 06-30-2019 City/State/Zip: SANTA BARBARA, CA. 93105 Phone: (805) 569-9216	Total Area: Total Area: Total Watts. Enter Total Watts into section A, row 1 (Above on this page) 0		
(002) 202-2510	C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES Total from section C-2. Total from section C-3.		
	Total from section C-3. Total Watts. Enter Total Watts into section A, row 2 (Above on this page). For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.		TOTALS — Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES — Section C-1 .
		TOTALS 0	Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot. Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing studio lighting
		Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document) WATTS	3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2017	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016	CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016
STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE			
CEC-NRCC-LTI-03-E (Revised 04/16) CERTIFICATE OF COMPLIANCE Certificate of Compliance - Indoor Lighting Power Allowance (Page 4 of 4)			
Project Name: Date Prepared:			
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Documentation Author Signature:			
Company: Signature Date: Address: CEA Certification (if applicable):			
City/State/Zip: Phone: 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.			
 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. 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:

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

City/State/Zip:

Responsible Designer Signature:

April 2016

Date Signed:

ELECTRIAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13083

LIGHTING
CA REGISTRATION NO E13083

LIGHTING
COMPLIANCE
FORMS

156 W. ALAMAR AVE.
SUITE B
SANTA BARBARA CA 93105
(805) 569-9218
FAX (805) 569-9210
FAX (805) 569-92405
email: maloney@jmpe.net
www.jmpe.net



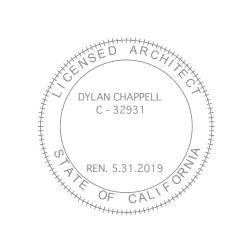
DYLAN CHAPPELL ARCHITECTS

550 Maple Street
Suite A
Carpinteria
Ca. 93013

805.205.4760

dylanchappell.com

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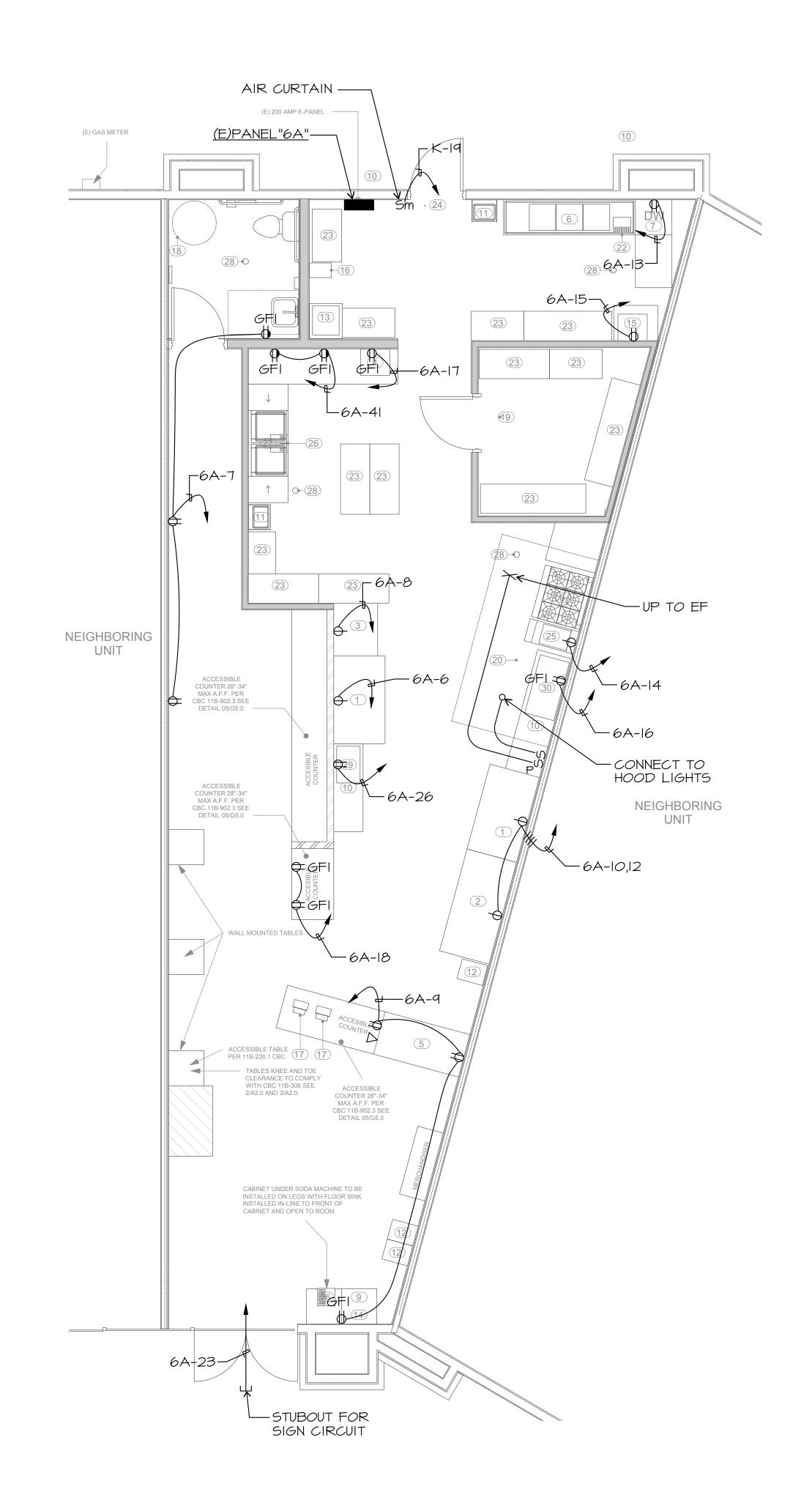


APN:526-0-170-130 EHD SUB SET

PEEBEE'S 520 N VENTU PARK RD. UNIT 160 NEWBURY PARK, CA 91320

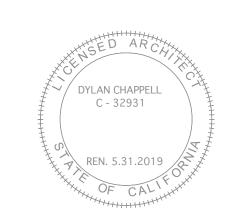
ELECTRICAL ROOF PLAN

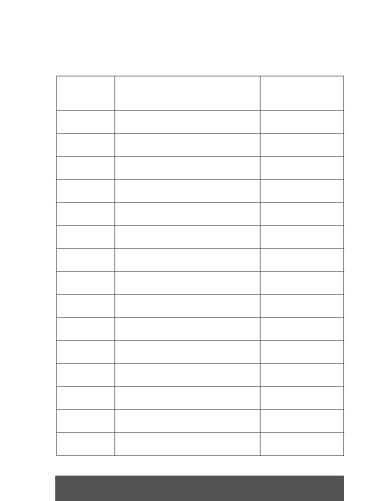
SCALE: 1/4" = 1'-0" 0 1 2 4 8



POWER PLAN SCALE: 1/4" = 1'-0" 0 1 2 4 8







POWER PLAN & **ELECTRICAL ROOF PLAN**



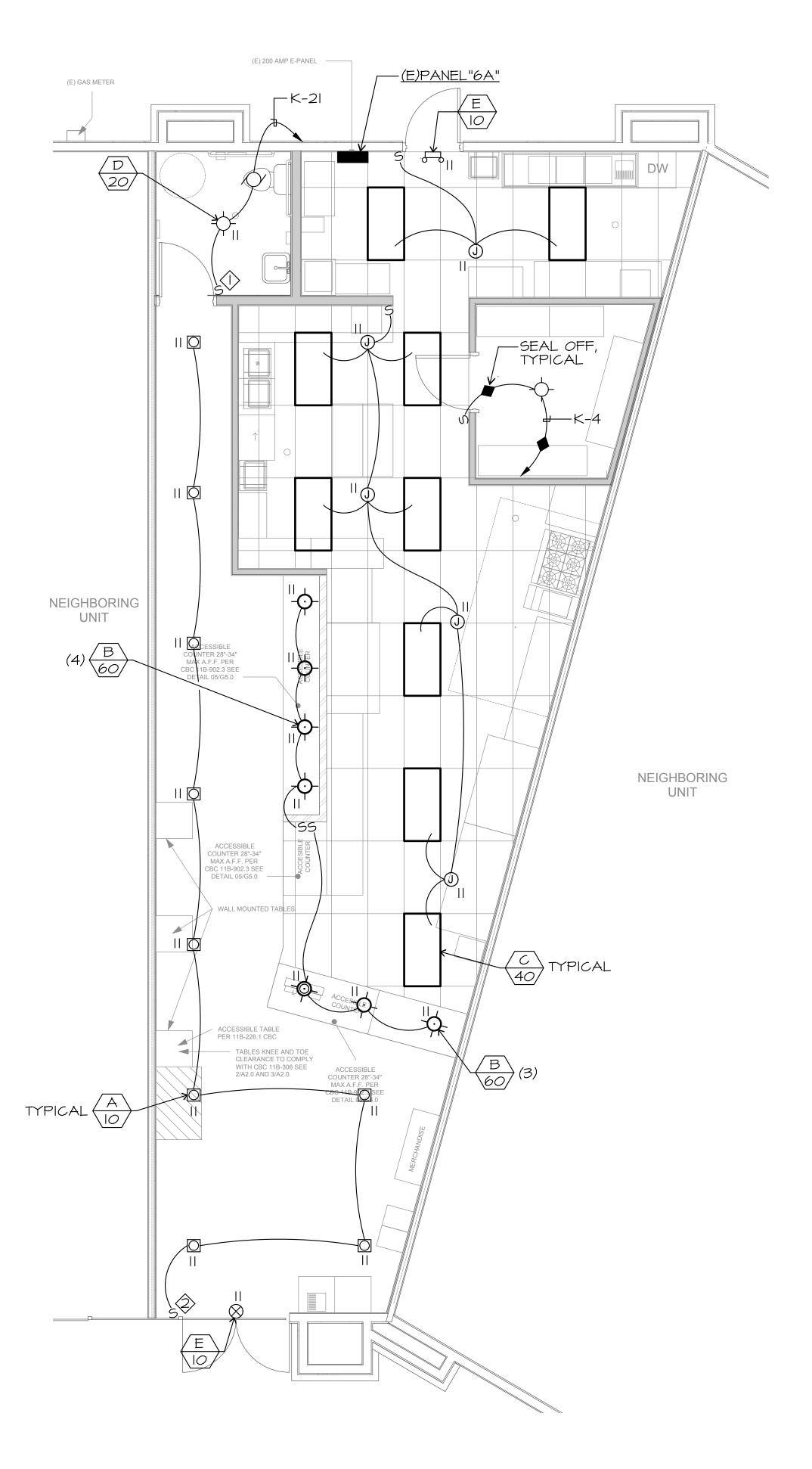
LIGHTING DESIGN

19006

LIGHTING NOTES

SENSOR SWITCH
#WSD-2P-PDT-FAN

DIMMER PER LAMP



LIGHTING PLAN

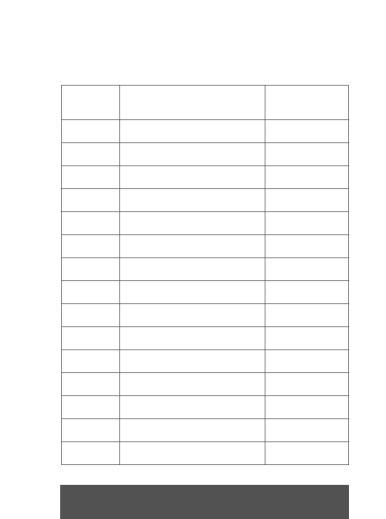
SCALE: 1/4" = 1'-0" 0 2 4 8





N:526-0-170-130 FHD SUB SET

PEEBEE'S 520 N VENTU PARK RD. UNIT 160 NEWBURY PARK, CA 91320







MECHANICAL SPECIFICATIONS

ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH THE LATEST EDITIONS OF ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES, IN CASE OF CONFLICT BETWEEN THE REFERENCED CODES AND ORDINANCES, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN.

VERIFY ALL SECTIONS AND ELEVATIONS PRIOR TO DUCTWORK FABRICATIONS.

DRAWINGS SHOW PIPE AND DUCTWORK DIAGRAMMATICALLY.

COORDINATED FIELD DETAILS WITH OTHER TRADES TO AVOID CONSTRUCTION DELAYS AND MAINTAIN REQUIRED CLEARANCES.

VARY RUN AND SHAPE OF DUCTWORK, AND MAKE OFFSETS DURING PROGRESS OF WORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS APPROVED BY ARCHITECT.

PAY ALL COSTS OF DESIGN AND INSTALLATION FOR CHANGES RESULTING FROM SUBSTITUTION OF ALTERNATE PRODUCTS. ACCEPTANCE OF ALTERNATE PRODUCTS BY THE ARCHITECT DOES NOT CHANGE THIS REQUIREMENT.

COORDINATE ALL AIR OUTLETS WITH REFLECTED CEILING PLAN.

COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND EQUIPMENT.

DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL UNLESS OTHERWISE SPECIFIED. METAL GAUGES AND CONSTRUCTION: PER SMACNA STANDARDS (SUPPLY FAN PRESSURE CLASSIFICATION) AND CHAPTER 6, CMC. ALL DUCT SIZES ARE INSIDE CLEAR DIMENSIONS.

FABRICATE DUCTWORK IN A WORKMANLIKE MANNER WITH AIRTIGHT JOINTS, PRESENTING SMOOTH SURFACES ON INSIDE, NEATLY FINISHED ON OUTSIDE; CHANGES IN DIRECTION SHALL BE MADE WITH LONG RADIUS ELBOWS (R=1-1/2 DIA) OR MITERED ELBOWS WITH TURNING VANES. MAKE INTERNAL ENDS OF SLIP JOINTS IN DIRECTION OF AIR FLOW.

CONSTRUCT, BRACE, AND SUPPORT DUCTS AND AIR PLENUMS TO PREVENT SAGGING AND TO MINIMIZE VIBRATION PER SMACNA STANDARDS AND UMC.

INSTALL EQUIVALENT SIZE RECTANGULAR DUCT WHERE PREFERRED OR WHERE SPACE IS LIMITED AND IN CONCEALED AREAS ONLY.

FLEXIBLE DUCT MAY BE USED AT RUNOUT TO AIR TERMINALS IN CONCEALED AREAS (MAXIMUM 5 FEET LENGTH) AND AS SHOWN ON DRAWINGS. SUPPORT PER SMACNA STANDARDS.

INSTALL MANUAL VOLUME DAMPER AT EACH DIFFUSER BRANCH AND AS INDICATED ON DRAWINGS AND AS FAR FROM THE DIFFUSER AS POSSIBLE. CONSTRUCT DAMPERS OF SAME MATERIAL AS DUCT, ONE GAUGE HEAVIER, REINFORCED TO PREVENT NOISE. INSTALL IN ACCESSIBLE LOCATION WITH LOCKING DEVICE AND INDICATING QUADRANT.

EXCEPT AS OTHERWISE NOTED ON DRAWINGS, ALL CONCEALED SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH 1-1/2" FIBERGLASS BLANKET INSULATION WITH FOIL JACKET. CONDUCTIVITY SHALL BE 0.29 BTU-IN/HR AT 75 DEG. F. FLAME/FUEL/SMOKE MAXIMUM OF 25/50/50. INSTALL PER SMACNA GUIDELINES.

ALL EXTERIOR DUCTWORK SHALL BE INTERNALLY INSULATED WITH OVERALL INSULATING U-VALUE EQUAL TO OR GREATER THAN THE VALUE LISTED ON ENERGY COMPLIANCE FORMS; CONDUCTIVITY SHALL BE 0.26 BTU-IN/HR. FLAME/FUEL/SMOKE MAXIMUM OF 25/50/50. INSTALL PER SMACNA GUIDELINES.

ALL INTERIOR SUPPLY AND RETURN PLENUMS SHALL BE INSULATED WITH 1 INCH SOUND LINER AND ALL EXTERIOR SUPPLY AND RETURN PLENUMS SHALL BE LINED WITH 1-1/2 INCH THICK SOUND LINER.

ALL ROOF AND EXTERIOR WALL PENETRATIONS SHALL BE FLASHED AND COUNTERFLASHED AS REQUIRED TO SEAL WEATHER TIGHT.

INSTALL BIRD SCREENS AT ALL INTAKE AND EXHAUST OPENINGS.

ALL SUPPLY. RETURN. AND EXHAUST TERMINALS SHALL HAVE INTEGRAL VOLUME CONTROL UNLESS OTHERWISE INDICATED.

INSTALL MANUAL VOLUME DAMPER AT EACH DIFFUSER BRANCH AND AS INDICATED ON DRAWINGS AS FAR FROM THE TERMINAL AS POSSIBLE.

ALL LOW VOLTAGE SHALL WIRING SHALL BE ENCLOSED IN CONDUIT.

PROVIDE ANY ADDITIONAL DAMPERS REQUIRED FOR CORRECT BALANCE, AT NO ADDITIONAL COST TO THE OWNER.

BALANCE SYSTEM TO WITHIN $\pm/-$ 5% OF THE AIR QUANTITIES SHOWN. SUBMIT AIR BALANCE REPORT BY NEBB CERTIFIED TECHNICIAN TO ARCHITECT.

VISIBLE INTERIOR PORTIONS OF DUCTWORK AND AIR TERMINALS SHALL BE PAINTED FLAT BLACK.

SEAL DUCTWORK JOINTS WITH AIRTIGHT MASTIC.

MAINTAIN MINIMUM 10'-0" CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND EXHAUST FAN DISCHARGE AND PLUMBING VENT TERMINATIONS.

MECHANICAL EQUIP SCHEDULE

- TYPE 1 STAINLESS STEEL EXHAUST HOOD, "CAPTIVE AIRE" MODEL 5424 ND-2-PSP-F (11'-0" X 4'-6"). HOOD SHALL BE 430 ST. STL. WHERE EXPOSED, INCLUDE GREASE FILTERS, LIGHTS, HOOD FIRE SUPPRESSION SYSTEM, PERFORATED SUPPLY AIR PLENUM BACKSPLASH, SIDESPLASH, STAND OFF. WEIGHT = 737 LBS. HOOD IS ETL LISTED, REFER TO SHEET 1 OF KITCHEN HOOD DRAWINGS.
- DIRECT DRIVE UPBLAST EXHAUST FAN, "CAPTIVEAIRE" DU180HFA, 2200 CFM @ 1.5 IWG, 1-1/2 HP, 208V, 3ø, 15.1 SONES, 163 LBS. COMPLETE WITH UL762, ROOF CURB, GREASE DRAIN AND VFD. INTERLOCK KEF-1 AND SF-1 SUPPLY FAN. CONTROL FAN WITH WALL MOUNT DEMAND CONTROL PACKAGE. COORDINATE WITH ELECTRICAL CONTRACTOR.
- FILTERED ROOFTOP MAKE UP AIR SUPPLY FAN, "CAPTIVEAIRE" MODEL A1-G15D, 2200 CFM AT 0.5" SP, 1-1/2 HP, 208 VOLT, 3 PHASE, 60 HZ, 27 SONES. OP WT = 270 LBS. INCLUDE ROOF CURB, BACKDRAFT DAMPER AND FILTERS.
- THERMOSTAT, "VENSTAR" T-2800, T-24 COMPLIANT ELECTRONIC PROGRAMMABLE THERMOSTAT. MOUNT AT MAX. 48"AFF.
- CEILING EXHAUST FAN, GREENHECK SP-A125, 100 CFM AT 0.25 IWG, 120 VAC, 55 WATTS, 1.4 SONES, 16 LBS, COMPLETE WITH BUILT-IN BACKDRAFT DAMPER, WALL CAP AND SPEED SWITCH MOUNTED ON FAN. CAP. CONTROL FAN VIA WALL SWITCH AND OR MOTION SENSOR SEE ELECTRICAL DRAWINGS.

KEF-1 AND SF-1 SHALL BE ELECTRICALLY INTERLOCKED USING MANUFACTURERS SUPPLIED DEMAND CONTROL PANEL FOR SIMULTANEOUS OPERATION. SEE KITCHEN DRAWINGS FOR DETAILS.

-GREASE TRAY

∠8" HIGH FLASHED

CURB ON ROOF WRAP 5/8"ROCK OVER TOP

40" MIN

PER FOOT

SCHEDULE —

MIN. 18" CLEAR-

CONSTRUCTION,

IF THE DISTANCE

CEILING AND THE

COMBUSTIBLE OR

NONCOMBUSTIBLE

CEILING MATERIALS

18" BEYOND OUTER

EDGE OF THE DUCT.

HOOD IS MORE THAN 18" EXTEND

BETWEEN THE

FLASHED AS

REQUIRED

NOTE:

LIMITED

FROM COMBUSTIBLE

SLOPE TOWARDS -

HOOD AT MIN. 1/4"

LISTED COOKING HOOD,

SEE MECHANICAL EQUIP.

-VENTILATED CURB EXTENSION

DIRECTION

RECOMENDATIONS.

+6'-8"A.F.F.

- DUCT COLLAR

GREASE HOOD

HORIZONTAL,

INSTALLATION

STEEL ON WALL

-COOKING LINE UP

BELOW HOOD

-DRIP TRAY

TYPE I HOOD EXHAUST

SYSTEM SECTION (NTS)

—16 GUAGE GALVANIZED IRON ALL WELDED DUCT,

INSTALLED DOWN TO

-18 GAUGE STAINLESS

LESS THAN 45° FROM

─ 3' AIR SPACE USE "Z"

BRACE FOR CORRECT

-20 GUAGE STAINLESS

STEEL "CAPTIVEAIRE" TYPE 1

-GREASE FILTERS SHALL BE

BRACKET OR 3" MOUNTING

INSTALLED AT AN ANGLE NOT

-PROVIDE CLEANING ACCESS IN DUCT AT EACH CHANGE IN

PROVIDE (2) LAYERS OF 3M FIRE

BARRIER DUCT WRAP 615+.

INSTALL PER MANUFACTURERS

SYMBOL DESCRIPTION POINT OF CONNECTION \boxtimes SUPPLY DUCT SECTION RETURN DUCT SECTION \square EXHAUST DUCT SECTION SQUARE SUPPLY DIFFUSER SQUARE RETURN REGISTER V SQUARE EXHAUST REGISTER FLEXIBLE DUCT MANUAL VOLUME DAMPER T ROOM THERMOSTAT

LEGEND

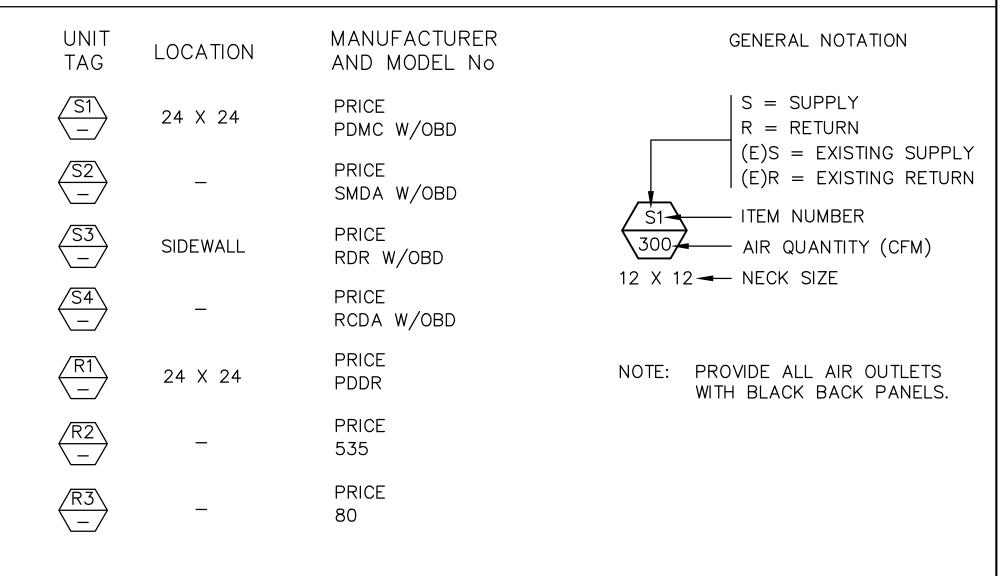
PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION, FOR ANY OTHER USE BY ANY METHOD, IN WHOLE OR IN PART, IS SPECIFICALLY PROHIBITED © TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER WITHOUT PREJUDICE. **REVISIONS:** NO. DATE: DESCRIPTION:

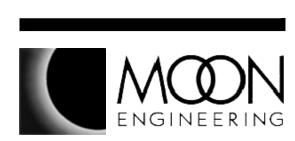
THE USE OF THESE PLANS AND

RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED.

SPECIFICATIONS SHALL BE

AIR OUTLET SCHEDULE



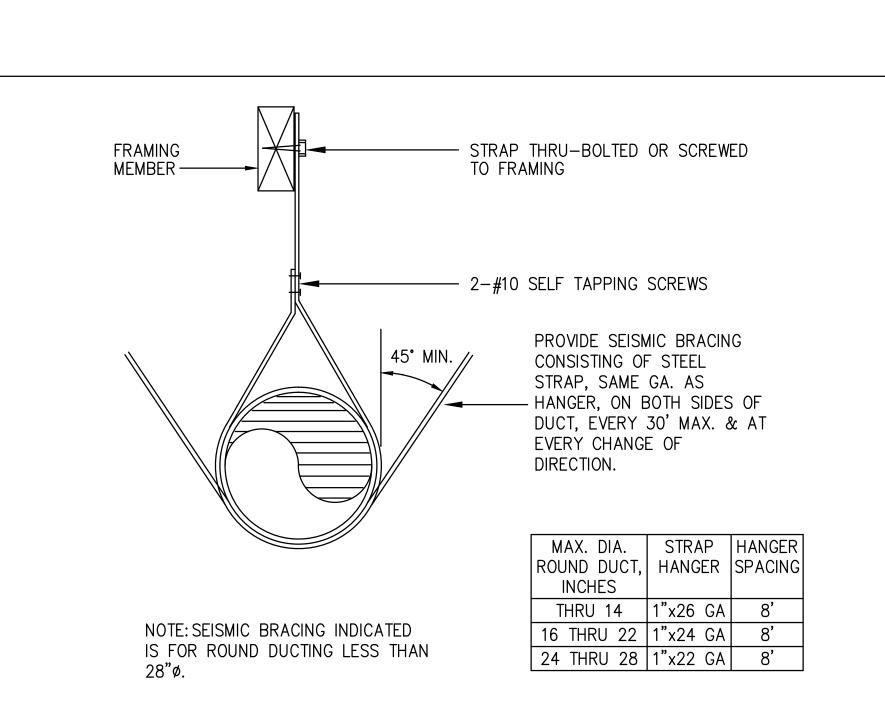


Consulting Mechanical Engineer 1304 E. Main St, Ste F Ventura California 93001 (805) 653-5215



GENERAL NOTES

- 1. THE CALIFORNIA RESIDENTIAL ENERGY STANDARDS HAVE BEEN REVIEWED AND THE DESIGN DRAWINGS COMPLY SUBSTANTIALLY WITH THESE STANDARDS.
- 2. ALL APPLIANCES (HEATING, VENTILATING AND COOLING EQUIPMENT) EQUIPMENT DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE PER UBC.
- COORDINATE ALL DUCT RUNS WITH OTHER TRADES TO AVOID CONFLICTS.
- 4. DUCT JOINTS SHALL COMPLY WITH UL 181 AND 181A.
- 5. THE MINIMUM RATE OF OUTDOOR AIR FOR MECHANICALLY VENTILATED SPACES SHALL BE SUPPLIED TO EACH SPACE AT ALL TIMES WHEN THE SPACE IS USUALLY OCCUPIED.



SHEET NUMBER:

NTS

ROUND DUCT SUPPORT

PROJECT TITLE: **TENANT IMPROVEMENT FOR:**

CONSULTANT:

PEEBEE'S

520 N. VENTU PARK ROAD, UNIT 160 NEWBURY PARK, CA 91320 PROJECT NUMBER:

19001-00

SHEET TITLE:

LEGEND, SCHEDULES, NOTES AND **DETAIL**

M1

12 FEB 2019

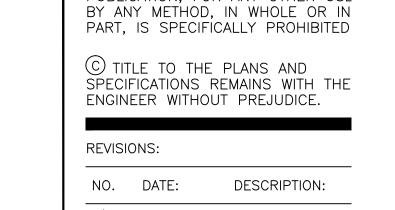
GENERAL NOTES

- OUTSIDE AIR INTAKE SHALL BE A MINIMUM OF 10' AWAY OR 3' BELOW ANY EXHAUST TERMINATIONS, VENTS OR FLUES.
- B TOILET EXHAUST SHALL TERMINATE A MINIMUM OF 3' FROM PROPERTY LINE AND 3' FROM ANY OPENINGS INTO BUILDING.
- C PROVIDE MANUAL VOLUME DAMPERS IN ALL SUPPLY, RETURN AND MAKE UP AIR DUCTS. PROVIDE APPROPRIATE ACCESS DOOR(S) AS REQUIRED.
- D PERMANENT ROOF ACCESS WITH LADDER IS IN ELECTRICAL ROOM.

KEF-1 AND SF-1 SHALL BE ELECTRICALLY INTERLOCKED USING MANUFACTURERS SUPPLIED DEMAND CONTROL PANEL FOR SIMULTANEOUS OPERATION. SEE KITCHEN DRAWINGS FOR DETAILS.

REFERENCE NOTES

- 1) EXISTING NOMINAL 5 TON PACKAGED HEATING AND COOLING UNIT ON THE ROOF TO REMAIN.
- 2 SET MINIMUM OUTSIDE AIR TO 425 CFM.
- 3 6"ø EXHAUST AIR DUCT UP THROUGH THE ROOF. FLASH AND SEAL WEATHERTIGHT.
- 4 14"ø TYPE 1 16 GA. WELDED LIQUID TIGHT EXHAUST AIR DUCT UP.
- 5 OUTLINE OF TYPE 1 HOOD.
- 6 20" X 10" MAKE UP AIR DUCT CONNECT TO PLENUM, ADJUST TO 585 CFM.
- 7) 20" X 10" MAKE UP AIR DUCT CONNECT TO PLENUM, ADJUST TO 590 CFM.
- 8 12" X 14" MAKE UP AIR DUCT UP.
- 9 ROUTE EXPOSED DUCT TIGHT TO STRUCTURE.
- (10) PROVIDE 1" DOOR UNDERCUT FOR MAKE UP AIR.

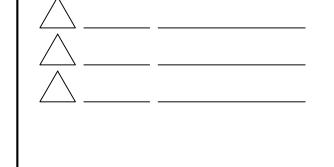


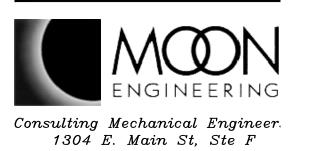
THE USE OF THESE PLANS AND

SPECIFICATIONS SHALL BE
RESTRICTED TO THE ORIGINAL SITE
FOR WHICH THEY WERE PREPARED.

EXPRESSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION, OR PUBLICATION, FOR ANY OTHER USE

PUBLICATION THEREOF IS









CONSULTANT:

PROJECT TITLE:

TENANT IMPROVEMENT FOR:

PEEBEE'S

520 N. VENTU PARK ROAD, UNIT 160 NEWBURY PARK, CA 91320

PROJECT NUMBER:

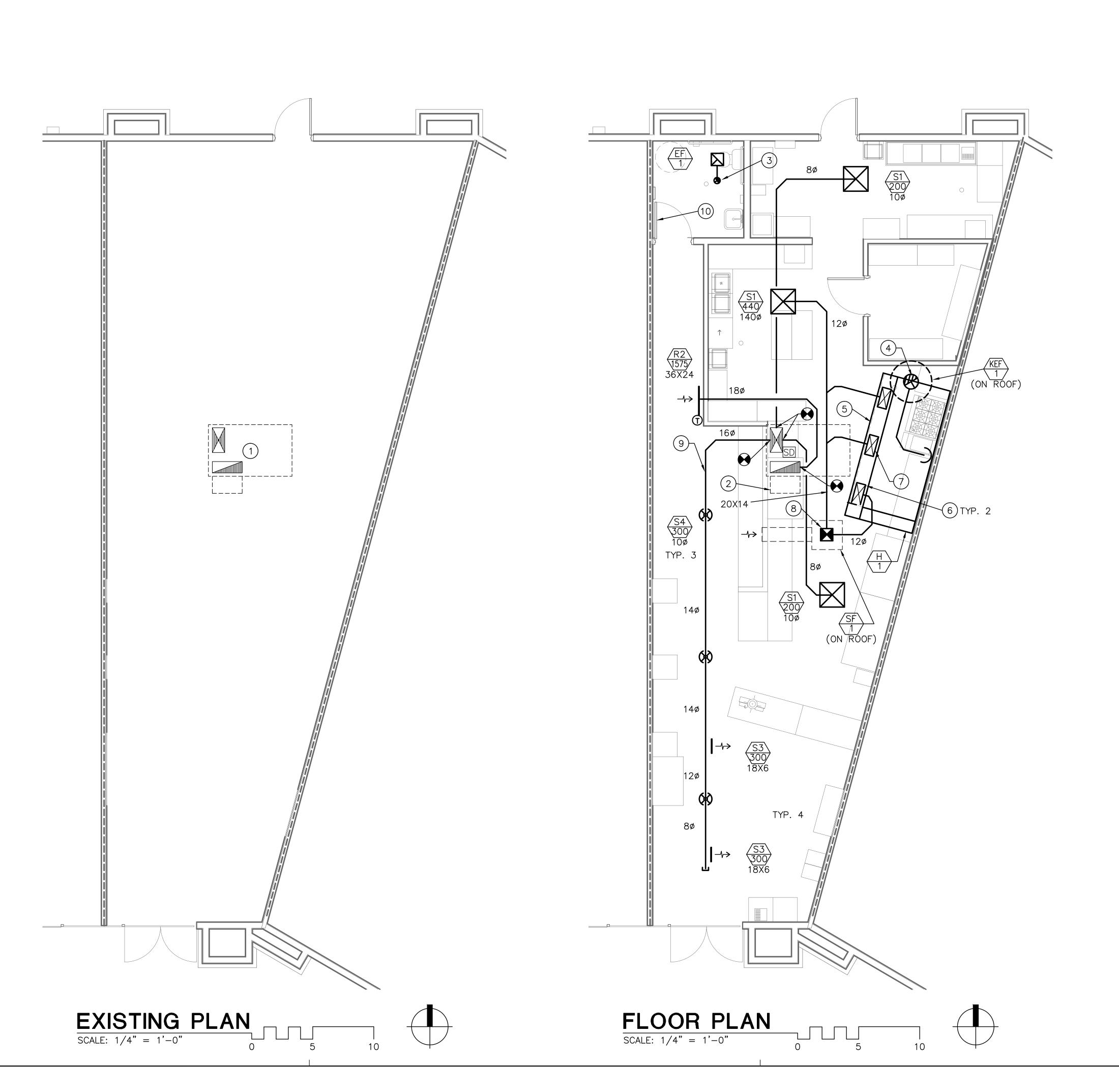
SHEET TITLE:

EXISTING PLAN AND FLOOR PLAN

SHEET NUMBER:

M

12 FEB 2019



TITLE 24 ENERGY COMPLIANCE DOCUMENTATION

	BUILDING ENERGY ANALYSIS REPORT
	PROJECT:
	TI FOR PEEBEE & J
	520 N. VENTU ROAD #160 NEWBURY PARK, CA 91320
	NEWBORT PARK, CA 91320
	Project Designer:
	MOON ENGINEERING INC.
	1304 EAST MAIN STREET, STE F
	VENTURA, CA 93001 (805) 653-5215
	(000)
	Report Prepared by:
	Timothy Moon P.E.
	Moon Engineering, Inc.
	1304 E. Main Street, Ste. F Ventura, CA. 93001
	805-653-5215
	Job Number:
	19001-00
	Date:
	1/29/2019
he EnergyPro computer լ	program has been used to perform the calculations summarized in this compliance report. This program has approval and
authorized by the Califo	rnia Energy Commission for use with both the Residential and Nonresidential 2016 Building Energy Efficiency Standards. This program developed by EnergySoft Software – www.energysoft.com.

NetCAMCHOLE NetCAMCHOLE NetCHANGE (SPEERER 3.) NetC		MECHANICAL SYSTEMS	CAI ISOBNIA ENEDGY COMMISSION
Interest of the 2016 Nonresidential Manual Sper to the 2016 Nonresidential Manual Figured on plans for all submittals. Sance Tests (MCH-02-A to 11-A). Required on plans for all submittals ance Tests (MCH-02-A to 11-A). Required on plans where applicable quired for all submittals with Central Air Systems. It is optional on playing for all submittals with multiple zone heating and cooling system plans where applicable sequired on plans where applicable Required on plans where applicable	CERTIFICATE OF (COMPLIANCE	NRCC-MCH-
A MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS (check box if worksheet is included) A MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS (check box if worksheet is included) A MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS (check box if worksheet is included) A MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS (check box if worksheet is included) Note: The designation of the complex of the page of the	Mechanical Syste	sm	(Page 1
A MECHANICAL COMPLANCE DOCUMENTS & WORKSHETTS (check box if worksheet is included) Note: The Englorement Agency may require oil forms to be incorporated onto the building plans. YES NO Comp. Doc./Worksheet # Intelegration of the properties of the plan oil forms to be incorporated onto the building plans. YES NO Comp. Doc./Worksheet # Intelegration of the plans of	Project Name: TI FOF	REEBEE & J	
for decinely distructions on the use of this and all Cleaney Stindands compliance forms, refer to the 2016 Namesidential Manual For decinely distructions on the use of this and all Cleaned Standard Compliance, Decidand Required in Standard Service and Servi	A. MECHANICAL C	COMPLIANCE DOCUMENTS & WORK	SHEETS (check box if worksheet is included)
Note: The Enforcement Algebracy may expend all forms to be incorporated onto the building plans. YES NO Comp. Doc./Morksheet # Inter. One Doc./Morksheet # NRCC./Morksheet # NRCC./	For detailed instru	ctions on the use of this and all Ener	
VES NO Comp. Doc./Morksheat # Title	Note: The Enforce	ment Agency may require all forms	
D NRCC-MCH-01-E (Part 1 of 3) Certificate of Complia NRCC-MCH-01-E (Part 2 of 3) Certificate of Complia NRCC-MCH-02-E (Part 1 of 2) Mechanical Dry Equip Mechanical Dry Equip NRCC-MCH-02-E (Part 2 of 2) Systems. It is optional NRCC-MCH-03-E Part 1 of 2) Power Consumption of NRCC-MCH-07-E (Part 1 of 2) Power Consumption of NRCC-MCH-07-E (Part 2 of 2) Power Consumption	YES NC	Comp. Doc./Worksheet #	Title
Director NRCC-MCH-01-E (Part 2 of 3) Certificate of Complia			Certificate of Compliance, Declaration. Required on plans for all submittals.
Director (Deart 3 of 3) Certificate of Compilia NRCC-MCH-02-E (Part 1 of 2) Mechanical Dry Equip Mechanical Dry Equip NRCC-MCH-02-E (Part 2 of 2) Systems. It is optional NRCC-MCH-03-E Part 1 of 2) Power Consumption of Part 2 of 2) Power 2 of 2 Po			Certificate of Compliance, Required Acceptance Tests (MCH-02-A to 11-A). Required on plans for all submittals.
NRCC-MCH-02-E (Part 1 of 2) Mechanical Dry Equip NRCC-MCH-02-E (Part 2 of 2) Mechanical Wet Equip NRCC-MCH-03-E NRCC-MCH-07-E (Part 1 of 2) Power Consumption of NRCC-MCH-07-E (Part 2 of 2) Power			Certificate of Compliance, Required Acceptance Tests (MCH-12-A to 18-A). Required on plans where applicable.
NRCC-MCH-02-E (Part 2 of 2) Systems. It is optional NRCC-MCH-03-E NRCC-MCH-07-E (Part 1 of 2) NRCC-MCH-07-E (Part 2 of 2)			Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans.
Mechanical Ventilatio McC-MCH-03-E Optional on plans. INRCC-MCH-07-E (Part 1 of 2) NRCC-MCH-07-E (Part 2 of 2) Power Consumption of Power Consumption o			Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water systems. It is optional on plans.
NRCC-MCH-07-E (Part 1 of 2) NRCC-MCH-07-E (Part 2 of 2)			Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating and cooling systems. It is optional on plans.
NRCC-MCH-07-E (Part 2 of 2)			
MRCC-INCH-U/-E (Part 2 of 2)			
			Power Consumption of Fans, Declaration. Required on plans where applicable

CEC-NRCC-MCH-01-E (Revised 01/16) CERTIFICATE OF COMPILANCE	Revised 01/16)	N.C.							CALIF	CALIFORNIA ENERGY COMMISSION NRCC-MC	OMMISSION NRCC-MCH-01-F
Mechanical Systems	JS										(Page 2 of 4)
Project Name: TI FOR PEEBEE	PEEBE	EE & J						Date Prepared	Date Prepared: 1/29/2019		
B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required co	VAC AC	CEPTANCE FO	RMS (check t	ox for required	l compliance documents)	ocuments)					
Test Performed By:	١.										
Designer: This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment that neguires an acceptance test.	ument is	to be used by t that apply and	he designer an list all equipm	d attached to the ent that requires	plans. Listed by an acceptance t	elow are all the ac	cceptance tests for	ans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable acceptance test. All equipment of the same type that requires a test, list the equipment description and the number	The designer is re est, list the equip	quired to check the	e applicable and the numbe
Installing Contractor: The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has	r: installed	the equipment	is responsible	to either conduct	t the acceptance	test themselves	or have a qualifie	d entity run the te	st for them. If mo	re than one perso	n has
Enforcement Agency: Enforcement Agency: Plancheck – The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.	y: 3C-MCH-(01-E complianc	e document is red all newly ins	not considered a	completed docu	ment and is not t	o be accepted by	npleted document and is not to be accepted by the building department unless the correct boxes are checked. ms must be tested to ensure proper operations.	rtment unless the	correct boxes are	checked.
Test Description	Ĕ	MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-08-A	MCH-09-A	MCH-10-A	MCH-11-A
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
		_		_	_						_
				_	_		_				_
		_	_		_						_
					_	_	_	_	_	_	_
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		_		_	_						_
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	0	_	_			0		
ECMS	Condenser Water Reset Controls	Supply Air Temperature Reset Controls	Thermal Energy Storage (TES) Systems	Distributed Energy Storage DX AC Systems	Automatic Fault Detection & Diagnostics for Air & Zone	Fault Detection & Diagnostics for DX Units	# of Units	Equipment Requiring Testing or Verification
MCH-18-A	MCH-17-A	MCH-16-A	MCH-15-A	MCH-14-A	MCH-13-A	MCH-12-A	ion	Test Description
s are checked.	Enforcement Agency: Plancheck — The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked. Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.	y the building departmer is.	is not to be accepted b insure proper operation	ompleted document and ems must be tested to e	Enforcement Agency: Plancheck – The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by . Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.	01-E compliance documony permit is granted all ne	cy: CC-MCH- occupancy	Enforcement Agency: Plancheck – The NRCC Inspector - Before occ
oerson has hey are responsib	Installing Contractor: The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has responsible, responsible, responsible, the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.	ed entity run the test for rtion of the construction	iselves or have a qualificice applicable to the poi	he acceptance test them e Certificate of Acceptar	nsible to either conduct to shall sign and submit th	I the equipment is respor ance testing, each persor	or: o installed ne accepta	Installing Contractor: The contractor who ir responsibility for the
ck the applicable tion and the numl	Designer: This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.	for HVAC systems. The de pe that requires a test, li	ll the acceptance tests i uipment of the same ty	olans. Listed below are a n acceptance test. All eq	ner and attached to the p quipment that requires a	s to be used by the design s that apply and list all er	cument is tance test	Designer: This compliance do boxes for all acceprof systems.
			(5)	compliance document	C. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)	CEPTANCE FORMS (ch	HVAC AC	C. MECHANICAL HV
	1/29/2019	Date Prepared: 1/2(EE & J	TI FOR PEEBEE	Project Name: TI FO
(Page 3 of 4)							ms	(3)
NRCC-MCH-01-E						NCE	OMPLIA	CERTIFICATE OF COMPLIANCE
Y COMMISSION	CALIFORNIA ENERGY COMMISSION					SYSTEMS evised 01/16)	L SYS'	STATE OF CALIFORNIA MECHANICAL SYSTE CEC-NRCC-MCH-01-E (Revised 01/16)

MECHANICAL 3131E CEC-NRCC-MCH-01-E (Revised 01/16)	SYSTEMS evised 01/16)		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	LIANCE		NRCC-MCH-01-E
Mechanical Systems			(Page 4 of 4)
Project Name: TI FOR PEEBEE	EBEE & J		Date Prepared: 1/29/2019
CUMENTATION AUTH	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
I certify that this Cer	I certify that this Certificate of Compliance documentation is accurate and complete.		
Documentation Author Name:	Timothy Moon P.E.	Documentation Author Signature:	Temothy 12 moon
Company:	Moon Engineering, Inc.	Signature Date: 1/29/2019	
Address:	1304 E. Main Street, Ste. F	CEA/ HERS Certification Identification (if applicable):	f applicable):
City/State/Zip:	Ventura, CA. 93001	Phone: 805-653-5215	
SPONSIBLE PERSON'S	RESPONSIBLE PERSON'S DECLARATION STATEMENT		
I certify the following und 1. The information pro 2. I am eligible under E	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	for the building design or system	design identified on this Certificate of Compliance (responsible
conform to the requirements The building design features of worksheets, calculations, plan I will ensure that a completed agency for all applicable inspensions owners a occursory.	conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 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. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building, permit the documentation the builder provides to the 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 occurrence.	tions. npliance are consistent with the ir or approval with this building perravalable with the building permit tificate of Compliance is required	formation provided on other applicable compliance documents, iit application. s) issued for the building, and made available to the enforcement to be included with the documentation the builder provides to th
Responsible Designer Name:	TIM MOON	Responsible Designer Signature:	Timotomy I woon
Company :	MOON ENGINEERING, INC.	Date Signed:	2-12-19
Address:	1304 EAST MAIN STREET, STE. F	License:	M22282
City/State/Zip:	VENTURA, CA 93001	Phone: (8)	(805) 653-5215

C-NRCC-MCH-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE			CALIFORNIA ENEF	NRCC-MCH-02-E
IVAC Dry & Wet System Requirements				(Page 1 of 3)
roject Name: TI FOR PEEBEE & J			Date Prepared: 1/29/2019	
THE OWN ELDEL GO			172072010	
A. Equipment Tags and System Description 1	- Dry Systems			
MANDATORY MEASURES	T-24 Sections	Reference to the	Requirements in the	Contract Documents ²
leating Equipment Efficiency ³	110.1 or 110.2(a)	nejerence to the	- Requirements in the	
Cooling Equipment Efficiency ³	110.1 or 110.2(a)			
HVAC or Heat Pump Thermostats	110.2(b), 110.2(c)			
urnace Standby Loss Control	110.2(d)			
ow Leakage AHUs	110.2(f)			
entilation ⁴	120.1(b)			
emand Control Ventilation ⁵	120.1(c)4			
Occupant Sensor Ventilation Control ⁶	120.1(c)5, 120.2(e)3			
hutoff and Reset Controls ⁷	120.2(e)			
Outdoor Air and Exhaust Damper Control	120.2(f)			
solation Zones	120.2(g)			
utomatic Demand Shed Controls	120.2(h)			
conomizer FDD	120.2(i)			
Ouct Insulation	120.4			
PRESCRIPTIVE MEASURES	T	T	ĺ	
quipment is sized in conformance with 40.4(a & b)	140.4(a & b)	Y/N	Y/N	Y/N
Supply Fan Pressure Control	140.4(c)			
imultaneous Heat/Cool ⁸	140.4(d)			
Conomizer	140.4(e)			
Heat and Cool Air Supply Reset Electric Resistance Heating9	140.4(f) 140.4(g)			
Ouct Leakage Sealing and Testing 10	140.4(g) 140.4(l)			
 Provide equipment tags (e.g. AHU 1 to 1 with common requirements can be grouted. Provide references to plans (i.e. Drawing paragraphs) where each requirement is The referenced plans and specifications capacity, Title 24 minimum efficiency rerequirements are applicable (e.g. full-arequipment is required to be listed per Title 14. Identify where the ventilation requirement is chedules and sequences of operation the plans and specifications. Multiple zo If one or more spaces has demand continues the sequence of operation. If one or more space has occupant sensor and the sequence of operation. If the system is DDC identify the sequenter For all systems identify the specification. Identify where the heating, cooling and 	sped together. g Sheet Numbers) and/or specified. Enter "N/A" if to must include all of the for quirements, and actual rand part-load) include all. Note that the sequents are documented for ion. If one or more spaces one central air systems must colled ventilation identify or ventilation control identification the thermostats and	specifications (inclicate requirement is allowing information ated equipment efficiency of the appliance stream and the appliance stream area and the appliance and the appliance are also provide a Market also provide a M	uding Section name/not applicable to this some equipment tag, equipment to the section of the se	umber and relevant system. pment nominal ple efficiency identify where ences to both central is is documented in document. specifications and ensor specifications and setup (if required).

CERTIFICATE OF COMPLIANCE			CALIFORNIA ENE	RGY COMMISSION NRCC-MCH-0
HVAC Dry & Wet System Requirements				(Page 2 o
Project Name: TI FOR PEEBEE & J			Date Prepared: 1/29/201	
II FOR PEEBEE & J			1/29/201	3
B. Equipment Tags and System Description ¹	- Wet Systems			
MANDATORY MEASURES	T-24 Sections	Reference to t	he Requirements in the	Contract Documen
Heating Hot Water Equipment Efficiency ³	110.1			
Cooling Chilled and Condenser Water Equipment Efficiency ³	110.1, 140.4(i)			
Open and Closed Circuit Cooling Towers conductivity or flow-based controls	110.2(e) 1			
Open and Closed Circuit Cooling Towers Maximum Achievable Cycles of Concentration (LSI) ⁶	110.2(e) 2		·	
Open and Closed Circuit Cooling Towers Flow Meter with analog output	110.2(e) 3			
Open and Closed Circuit Cooling Towers Overflow Alarm	110.2(e) 4			
Open and Closed Circuit Cooling Towers Efficient Drift Eliminators	110.2(e) 5			
Pipe Insulation	120.3			
PRESCRIPTIVE MEASURES			·	
Cooling Tower Fan Controls	140.4(h)2, 140.4(h)5	Y/N	Y/N	Y/N
Cooling Tower Flow Controls	140.4(h)3	•	,	,
Centrifugal Fan Cooling Towers ⁴	140.4(h)4			
Air-Cooled Chiller Limitation ⁵	140.4(j)			
Variable Flow System Design	140.4(k)			
Chiller and Boiler Isolation	140.4(k)			
CHW and HHW Reset Controls	140.4(k)			
WLHP Isolation Valves	140.4(k)			
VSD on CHW, CW & WLHP Pumps >5HP	140.4(k)			
DP Sensor Location	140.4(k)			
 Provide equipment tags (e.g. CH 1 to 3) requirements can be grouped together. Provide references to plans (i.e. Drawing paragraphs) where each requirement is The referenced plans and specifications capacity, Title 24 minimum efficiency rerequirements are applicable (e.g. full- ar Kadj values. For chillers also note wheth Identify if cooling towers have propeller If air-cooled chillers are used, document capacity of the air-cooled chillers in the Identify the existence of a completed M otherwise enter "N/A". 	s Sheet Numbers) and/or specified. Enter "N/A" if t must include all of the fo quirements, and actual rand part-load) include all. Fer the efficiencies are Patfans. If towers use centric which exceptions have bechilled water plant.	specifications (in he requirement i llowing informati ted equipment e for chillers opera h A or Path B. fugal fans docum een used to com	cluding Section name/r s not applicable to this on: equipment tag, equ fficiencies. Where mult ting at non-standard eff ent which exception is ply with 140.4(j) and th	number and relevar system. lipment nominal liple efficiency ficiencies provide thused. used. e total installed des

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

	NIA EM REQUIREMENTS E (Revised 06/14)	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF		NRCC-MCH-
	em Requirements	(Page 3
Project Name: TIFO	R PEEBEE & J	Date Prepared: 1/29/2019
DOCUMENTATIO	N AUTHOR'S DECLARATION STATEMENT	
I certify that Documentation Author	this Certificate of Compliance documentation is accu	urate and complete. Documentation Author Signature:
Documentation Author	Timothy Moon P.E.	
Company:	Moon Engineering, Inc.	Signature Date: 1/29/2019
Address:	1304 E. Main Street, Ste. F	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Ventura, CA. 93001	Phone: 805-653-5215
RESPONSIBLE PE	RSON'S DECLARATION STATEMENT	
design ident Regulations. 4. The building provided on agency for a 5. I will ensure building, and	ified on this Certificate of Compliance conform to the design features or system design features identified other applicable compliance documents, worksheet pproval with this building permit application. that a completed signed copy of this Certificate of Completed available to the enforcement agency for all a	components, and manufactured devices for the building design or system is requirements of Title 24, Part 1 and Part 6 of the California Code of it on this Certificate of Compliance are consistent with the information its, calculations, plans and specifications submitted to the enforcement compliance shall be made available with the building permit(s) issued for applicable inspections. I understand that a completed signed copy of this
Certificate of	f Compliance is required to be included with the doc	cumentation the builder provides to the building owner at occupancy.
Responsible Designer I	Name: TIM MOON	Responsible Designer Signature:
Company:	MOON ENGINEERING, INC.	Date Signed:
Address:	1304 EAST MAIN STREET, STE. F	License:
City/State/Zip:	VENTURA, CA 93001	Phone: (805) 653-5215

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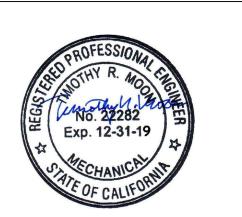
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REVISIONS:

DATE:	DESCRIPTION:
	DATE:



Consulting Mechanical Engineer. 1304 E. Main St, Ste F Ventura California 93001 (805) 653—5215



CONSULTANT:

PROJECT TITLE:

TENANT IMPROVEMENT FOR:

PEEBEE'S

520 N. VENTU PARK ROAD, UNIT 160 Newbury Park, Ca 91320 PROJECT NUMBER:

SHEET TITLE:

TITLE 24 ENERGY COMPLIANCE **FORMS**

SHEET NUMBER:

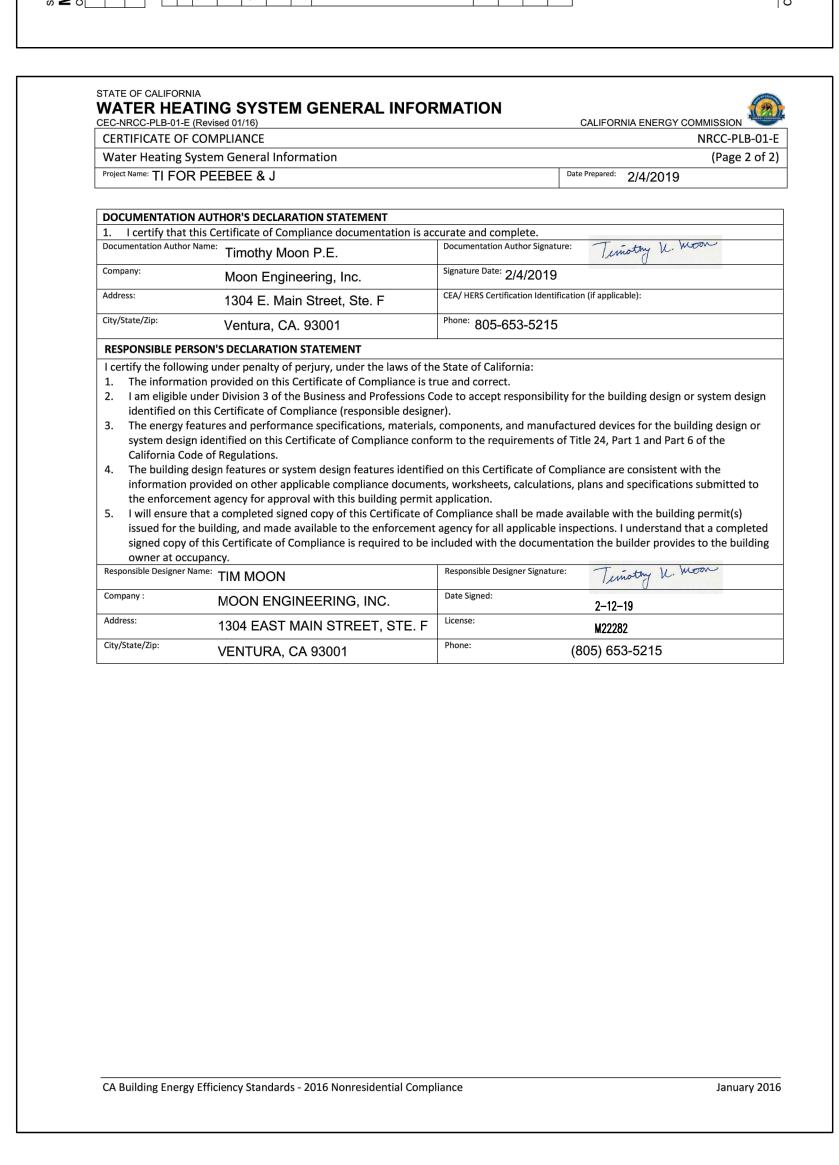
DATE: 12 FEB 2019

TITLE 24 ENERGY COMPLIANCE DOCUMENTATION

NO NO	NRCC-MCH-03-E	(Page 1 of 2)				21	COMBITESS (CEM)	□ Pass	□ Fail	X N/A	□ Pass	□ Fail	X N/A	□ Pass	☐ Fail	X N/A	□ Pass	□ Fail	□ N/A	□ Pass	□ Fail	□ N/A	□ Pass	□ Fail	N/A	□ Pass	□ Fail	□ N/A
MMISSI	NRCC-I	(Pa			VAV Deadband Primary Air CFM	20	MAX DEAD-BAND AIRFLOW																					
RGY CC					VAV D Primar	19	% BASED DESIGN PRMY COOLNG AIR (CFM)																					
CALIFORNIA ENERGY COMMISSION						18	COMPLIES?	□ Pass	□ Fail	X N/A	□ Pass	□ Fail	X N/A	□ Pass	□ Fail	W/A M/A	□ Pass	□ Fail	N/A	□ Pass	□ Fail	□ N/A	□ Pass	□ Fail	□ N/A	□ Pass	□ Fail	□ N/A
CALIFO			019		d Primary M	17	TAƏHƏN MUMIXAM (MƏD)																					
			oared: 1/29/2019		VAV Reheated Primary Air CFM	16	PERCENTAGE BASED DESIGN PRIMARY COOLING AIR (CFM)																					
			Date Prepared:		MUM	15	COMBLIES	ֹנ	⋈ Pass	□ Fail	>	Z rdss	<u> </u>	200	Y rass	3	250			<u>.</u>	□ rass	□ Fail	[□ rass	□ Fail	Dace	. □]
					MINIMUM	14	REQ'D VENT AIRFLOW (CFM)		285			86			22			405										
					ROOM	13	BOOM WIN CEM BA																					
					ASIS	12	MIN CFM BY OCCUPANT		219			38			22			Total										
					OCCUPANCY BASIS	11	CEM BER PERSON		15.0			30.0			30.0													
					00	10	NUM. OF PEOPLE		14.6			1.3			0.7													
					S	60	MIN CEM BY AREA		285			86			22													
					AREA BASIS	80	MIN CFM PER AREA		0.50			0.15			0.15													
AT						07	CONDITIONED ARRA (ft ²)		570			654			144													
REHE						90	TRANSFER AIRFLOW																					
Q N					JLES, ETC	05	CNTRL TYPE DDC (Y/N)																					
NOI.				t t	INT SCHED	90	PESIGN PRIMARY WEATING AIRFLOW (CFM)																					
VENTILATION AND REHEAT evised 05/16)	ANCE	Reheat	EE & J	and Rehe	IM EQUIPME	03	DESIGN PRIMARY DEADBAND AIRFLOW (CFM)																					
L VEN (Revised (OMPLI	lation &	S PEEB	tilation	INFO (FRO	02	DESIGN PRIMARY COOLING AIRFLOW (CFM)																					
MECHANICAL VENTIL CEC-NRCC-MCH-03-E (Revised 05/16)	CERTIFICATE OF COMPLIANCE	Mechanical Ventilation & Reheat	Project Name: TI FOR PEEBEE &	A. Mechanical Ventilation and Reheat	ACTUAL DESIGN INFO (FROM EQUIPMENT SCHEDULES, ETC)	01	ZONE\ SYSTEM\		DINING			KITCHEN/PREF			BATH/ETC.							_						

		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-03-E
Mechanical Ventilation & Reheat		(Page 2 of 2)
Project Name: TI FOR PEEBEE & J		Date Prepared: 1/29/2019
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
1. I certify that this Certificate of Compliance documentation is accurate and complete.		
Documentation Author Name: Timothy Moon P.E.	Documentation Author Signature:	Temothy W. Woon
Company: Moon Engineering, Inc.	Signature Date: 1/29/2019	
Address: 1304 E. Main Street, Ste. F	CEA/ HERS Certification Identification (if applicable):	on (if applicable):
City/State/Zip: Ventura, CA. 93001	Phone: 805-653-5215	
RESPONSIBLE PERSON'S DECLARATION STATEMENT	_	
I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct. In a meligible 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	y for the building design or syst	em 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	ctured 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,	ations. mpliance are consistent with thα	e information provided on other applicable compliance documents,
worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 1. 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 agency of the contraction o	for approval with this building p available with the building perr ertificate of Compliance is requi	ermit application. mit(s) issued for the building, and made available to the enforcement red to be included with the documentation the builder provides to the
Responsible Designer Name: TIM MOON	Responsible Designer Signature:	Trinothy W. Woon
Company: MOON ENGINEERING, INC.	Date Signed:	2-12-19
Address: 1304 EAST MAIN STREET, STE. F	License:	M22282
City/State/Zip: VENTURA, CA 93001	Phone:	(805) 653-5215

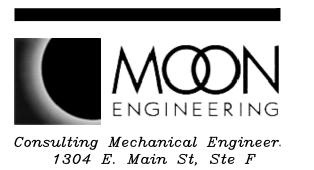
CERT	TIFICATE O	F COMPLIANCE		CALIFORNIA ENERGY COMMISSION NRCC-PLB-01-
		System General Info	rmation	(Page 1 of 2
Project	Name: TIF	OR PEEBEE & J		Date Prepared: 2/4/2019
Λ.6	ENIEDAI IN	IFORMATION/SYSTE	M INICODMATIO	N
01		eater System Name:	VI IIVI OKIVIATIO	Rinnai REU-KBD3237FFUD-US
02		eater System Configu	ration:	Non-Central
03		eater System Type:	ration.	Non-Central
04	Building			
05		mber of Water Heate	rs in Systems:	2
06		OHW Distribution Type		n/a
07		Unit DHW Distribution		Standard
07	Dweiling	Onit Drive Distribution	лі туре.	Standard
		TER INFORMATION	oparato comalia	neo document
01		ater type requires a so eater Type:	eparate compila	
02	Fuel Type			Small Instantaneous Gas Gas Fired
03		cture Name:		Rinnai REU-KBD3237FFUD-US
04	Model N			Nillia NEO-NBD323711 OD-03
05		of Identical Water He	eaters:	2
06		Water Heater System		0.95
07		Minimum Efficiency		0.95
08		Loss Percent or Stand		0.000
09	Rated In	put:		199,000
10	Pilot Ene	ergy:		,
11	Water H	eater Tank Storage Vo	olume:	0
12	Exterior	Insulation on Water H	leater:	0
13	Volume	of Supplemental Store	age:	
14	Internal	Insulation on Supplen	nental Storage:	
15	Exterior	Insulation on Supplen	nental Storage:	
C DU	INADING C	COMPLIANCE FORMS	9 WORKSHEET	•
		orksheet is included.	& WORKSHEETS	•
			is and all Fneray S	tandards compliance documents, refer to the 2016 Nonresidential Manual
1		-		e documents to be incorporated onto the building plans.
YES	NO	Doc/Worksheet #	Title	
Ø		NRCC-PLB-01-E	Certificate of	Compliance, Declaration. Required on plans for all submittals.
Ø		NRCI-PLB-01-E		Installation. Required on plans for all submittals.
		NRCI-PLB-02-E	Certificate of hotel/motel a	Installation, required on central systems in high-rise residential, application.
		NRCI-PLB-03-E	Certificate of	Installation, required on single dwelling unit systems in high-rise otel/motel application.
		NRCI-PLB-21-H	Certificate of	Installation, required on HERS verified central systems in high-rise otel/motel application.
		NRCI-PLB-22-H	Certificate of	Installation, required on HERS verified single dwelling unit systems in higal, hotel/motel application.
		NRCI-STH-01-E		Installation, required on any solar water heating



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REVISI	ONS:	
NO.	DATE:	DESCRIPTION:



Ventura California 93001 (805) 653—5215



CONSULTANT:

PROJECT TITLE:

TENANT IMPROVEMENT FOR:

PEEBEE'S

520 N. VENTU PARK ROAD, UNIT 160
NEWBURY PARK, CA 91320
PROJECT NUMBER:

19001-0

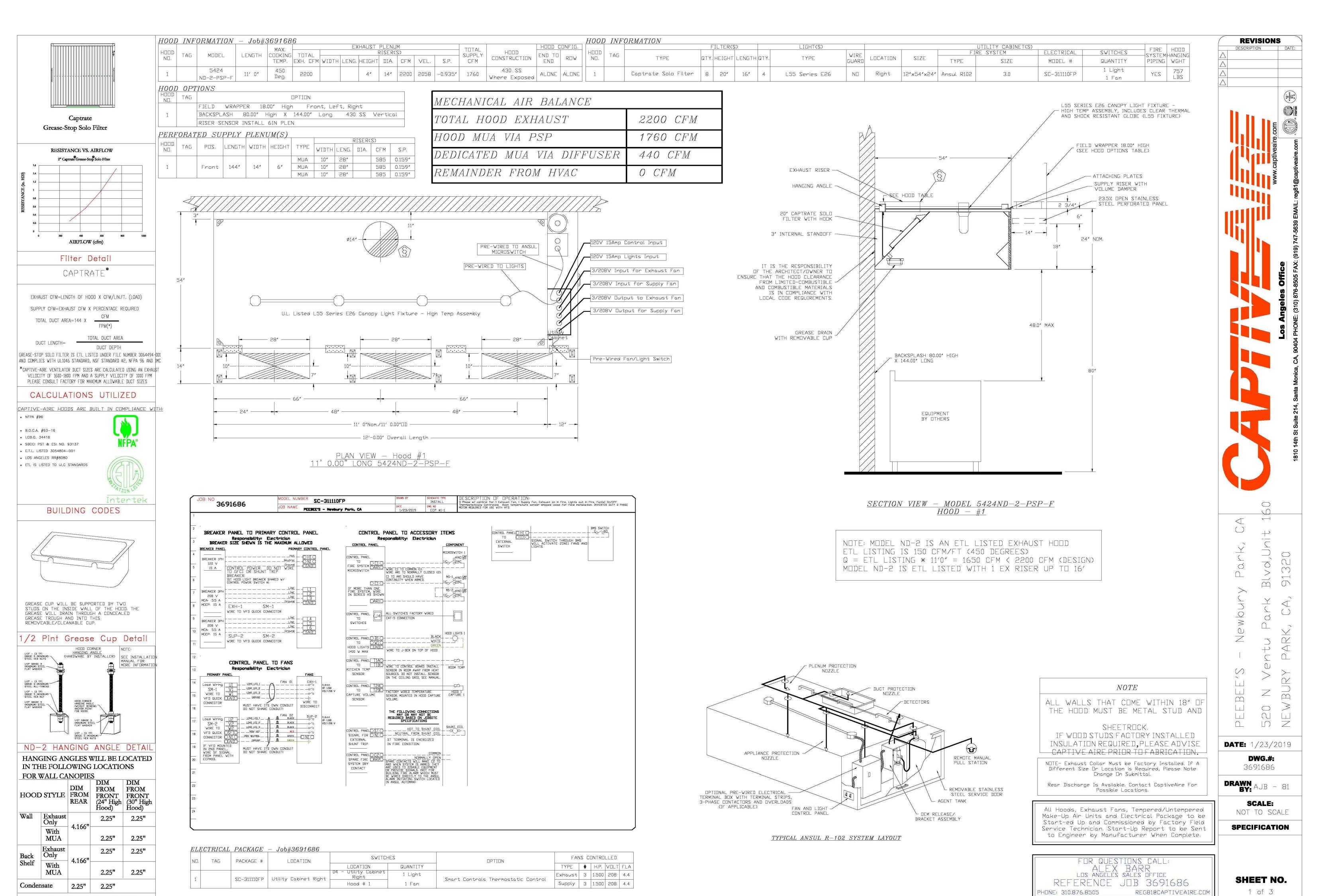
SHEET TITLE:

TITLE 24 ENERGY COMPLIANCE FORMS

SHEET NUMBER:

M

DATE: **12 FEB 2019**



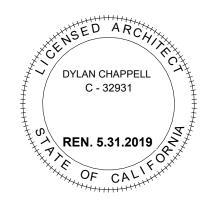
HANGING ANGLE LOCATIONS

DYLAN CHAPPELL ARCHITECTS

550 Maple Street Suite A Carpinteria Ca. 93013

805.205.4760 dylanchappell.com

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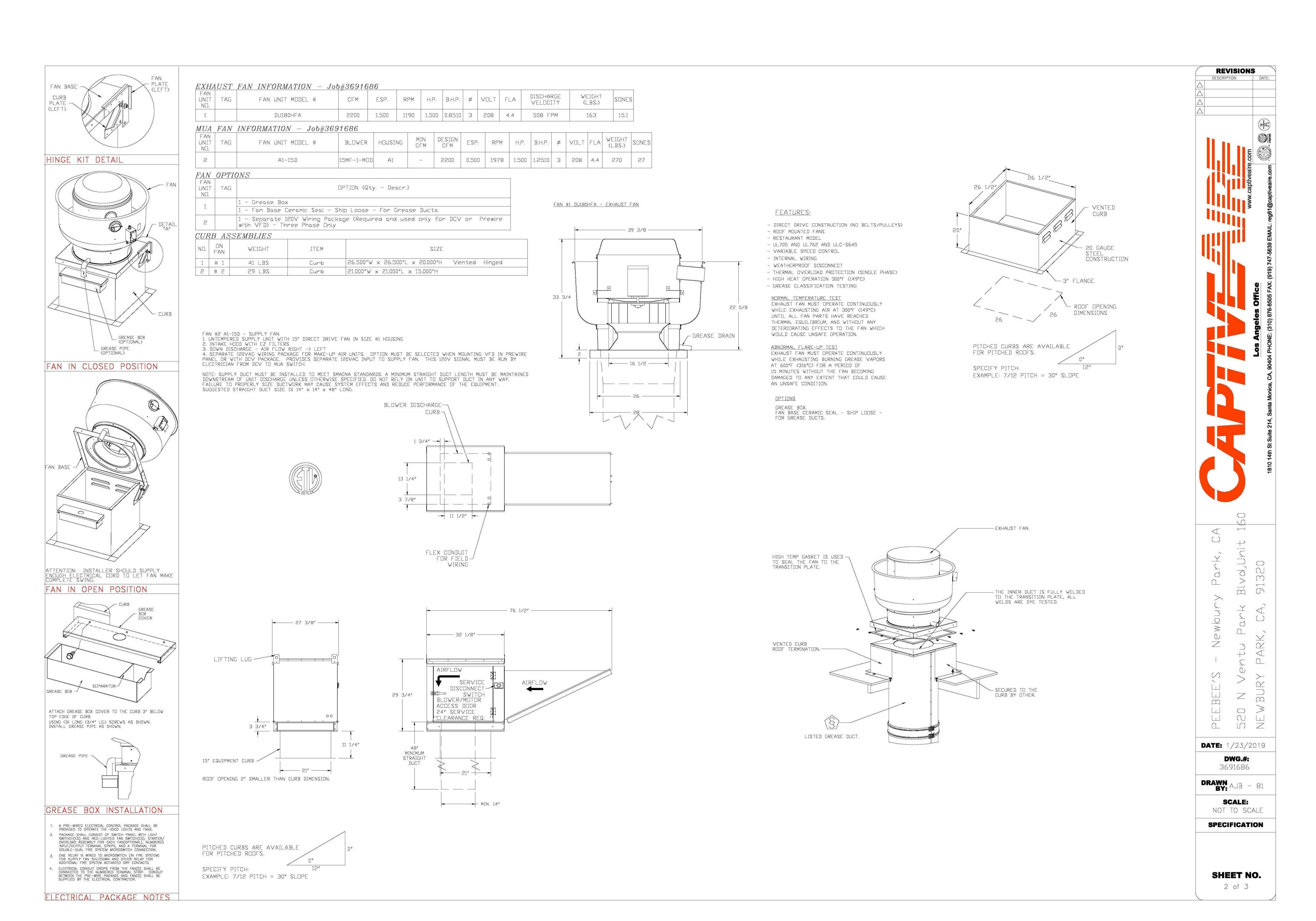
PN:526-0-170-13

TELDER Q JAY J 520 N VENTU PARK RD. UNIT 160 THOUSAND OAKS, CA 91320

No.	Description	Date
	l l	

CAPTIVE AIRE SPEC

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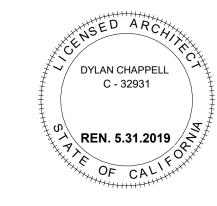


DYLAN CHAPPELL ARCHITECTS

550 Maple Street Suite A Carpinteria Ca. 93013

805.205.4760 dylanchappell.com

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6-0-170-130 SUB SET

APN:526-(

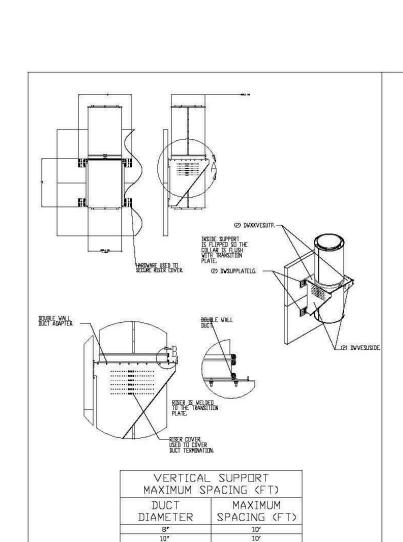
520 N VENTU PARK RD. UNIT 16 THOUSAND OAKS, CA 91320 PEFREE & IAV'S

No.	Description	Date
1		l .

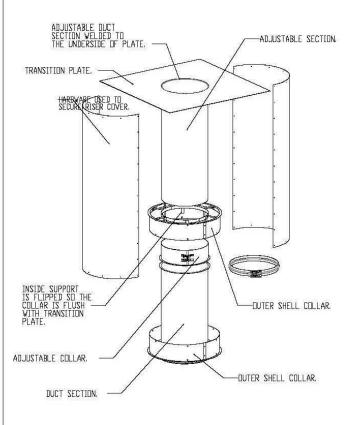
REVISION: No

CAPTIVE AIRE SPEC

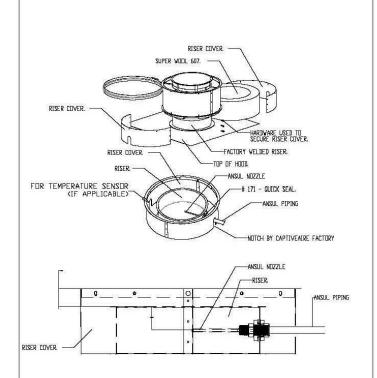
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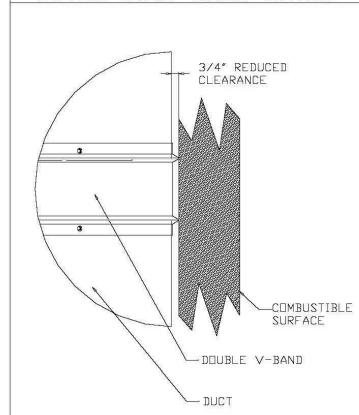
DUCT SUPPORT ASSEMBLY



TRANSITION PLATE DETAIL



OUTER DUCT BAND DETAIL



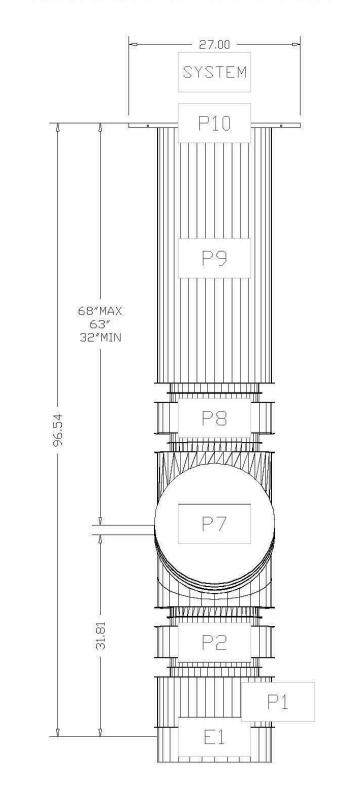
REDUCED CLEARANCE DETAIL

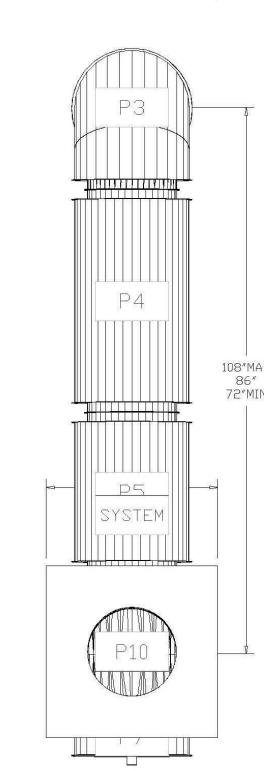
- 1. DUCT RUN TO BE FIELD VERIFIED, PARTS SUBJECT TO CHANGE
- VERTICAL HANGING SUPPORTS TO BE EVERY 10', HORIZONTAL
- SUPPORTS TO BE EVERY 7' FOR INNER DUCT DIA 8" TO 16" AND EVERY 5' FOR INNER DUCT DIA 18" TO 24".
- 4. ADJUSTABLE DUCT OVERLAP TO BE NO LESS THAN 6", UNLESS INNER DIAMETER IS 8" (4" OVERLAP) OR 10" (5" OVERLAP). 3/4" CLEARANCE TO COMBUSTIBLES IS FROM OUTER SHELL, V-BAND IS LISTED TO BE AGAINST SURFACE.
- DUCTWORK NOTES

DuctWork #1 Parts - Job#3691686 Weight | Velocity | QTY | Description Part # Double Wall Duct - 14" Inner Duct, 11" long - 2 Layers Reduced Clearance - 18" -0.0072057.97 DW1411DWLT-2R-S Double Wall Duct - 14" Inner Duct Riser & 1 Degree Offset - 2 Layers Reduced 2200 -0.005 DW1401DWOFFSETASY-2R-S Clearance - 18" Stainless Steel Duter Shell. Double Wall Duct - 14" Inner 90 Duct - 2 Layers Reduced Clearance - 18" Stainless DW1490DWASY-2R-S -0.1815 Steel Outer Shell. Double Wall Duct - 14" Inner Duct, 35" long - 2 Layers Reduced Clearance - 18" -0.0222 DW1435DWLT-2R-S 48.03 Stainless Steel Duter Shell. Double Wall Adjustable Duct - 14" Inner Duct, 47" long - 2 Layers Reduced Clearance - 18" Stainless Steel Duter Shell. Min Length = 11" / Max Length = 48.5" / DW1447DWAJD-2R-S -0.0158 | 93.73 2057.97 Adjustment = 30.5" / Adjustable Section May Need To Be Cut. Includes single and double wall "V" Clamps. Double Wall Duct - 14" Inner Tee Duct - 2 Layers Reduced Clearance - 18" Stainless DW14DWTEASY-2R-S -0.1694 39.10 2057.97 Steel Duter Shell. Assembled w/P7 Double Wall Duct - 14" Inner Access Door & 18" Access Door Cover With Clamps - 2 DW14DWACCDOORCOV-2R-S Layers Reduced Clearance - 18" Stainless Steel Outer Shell. Assembled w/P6 Double Wall Duct - 14" Inner Duct Riser & 1 Degree Offset - 2 Layers Reduced DW1401DWOFFSETASY-2R-S 2200 -0.005 11.27 2057.97 Clearance - 18" Stainless Steel Outer Shell. Double Wall Adjustable Duct Transition Plate - 14" Inner Duct, 47" long - 2 Layers Reduced Clearance - 18" Stainless Steel Outer Shell. Min Length = 11" / Max Length = 104.66 2057.97 48.5" / Adjustment = 30.5" / Adjustable Section May Need To Be Cut. DW1447DWAJDTP-2R-S -0.027 Assembled w/P10 Includes single and double wall "V" Clamps. Duct to Curb Transition 3/4" Down Turn, 26-1/2" Curb to 14" Duct, 16 GA Aluminized. For Use With Exhaust Fans. 12.50 DW2614TPDBEX Assembled w/P9 System at P10 2200 -1.3674 3M-2000PLUS Duct - 3M Fire Barrier 2000 Plus Silicone - Used as sealant to Seal Duct Joints. Duct - 14" Duct - 18" Double "V" Clamp - 2R Insulation & Single "V" Clamp Included -DW14DWCLASY-2R-S Reduced Clearance. Double Wall Riser Cover - Used On 14" Inner Riser, 4" long - 2 Layers Reduced Clearance - 18" Stainless Steel Outer Riser Shell Assembly. Includes Insulation & Single V Clamps For Inner & Outer Connections. DW18DWRISER-2R-S 8.15

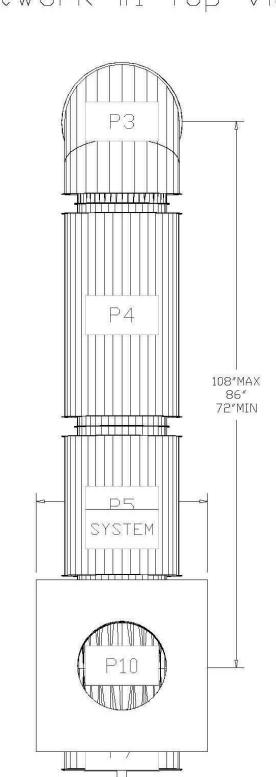
DuctWork #1 Front View

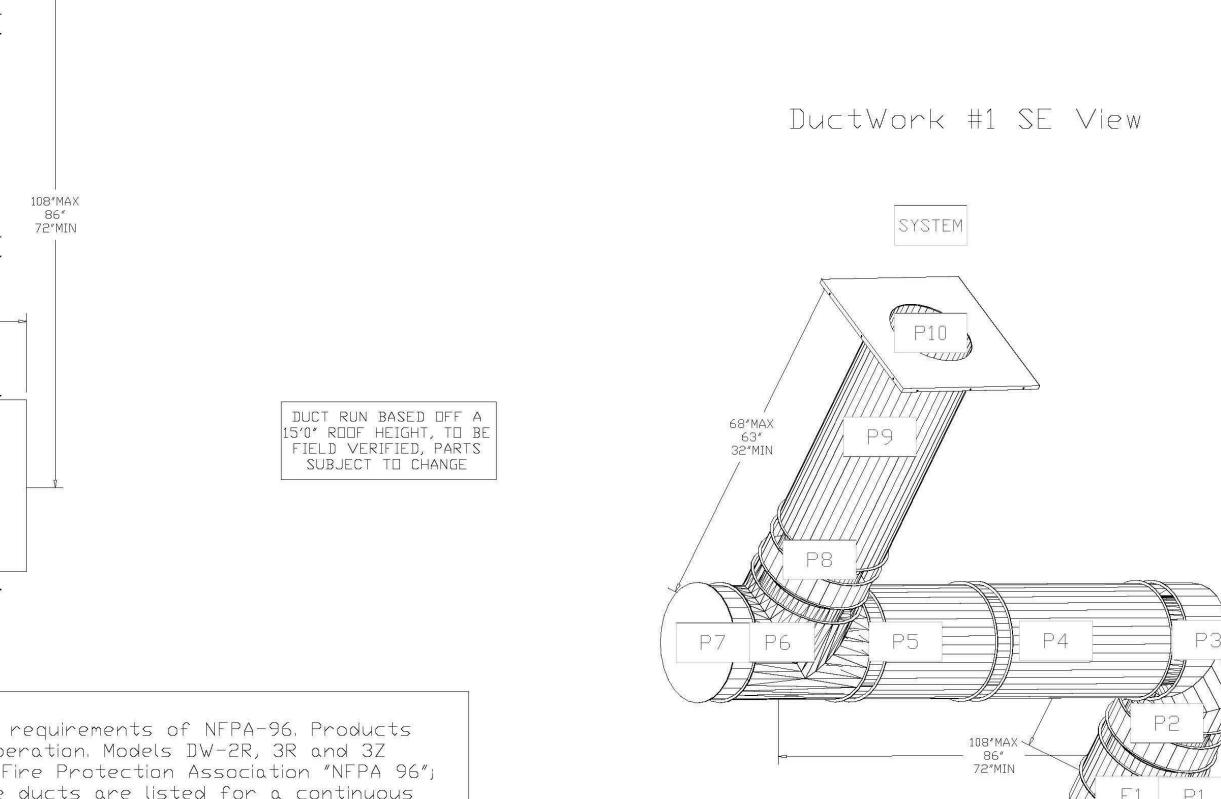
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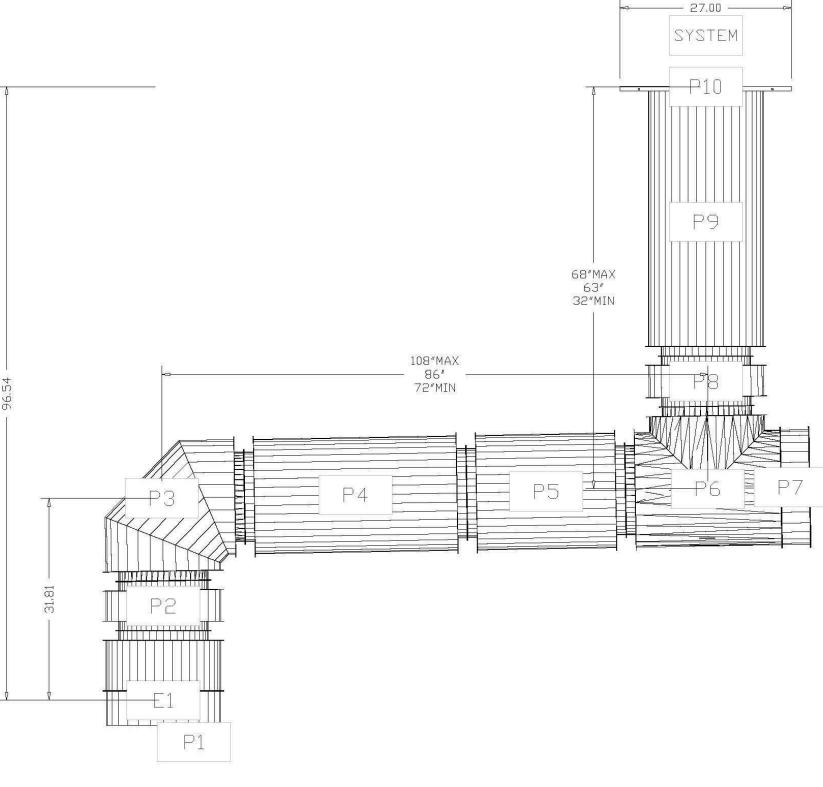


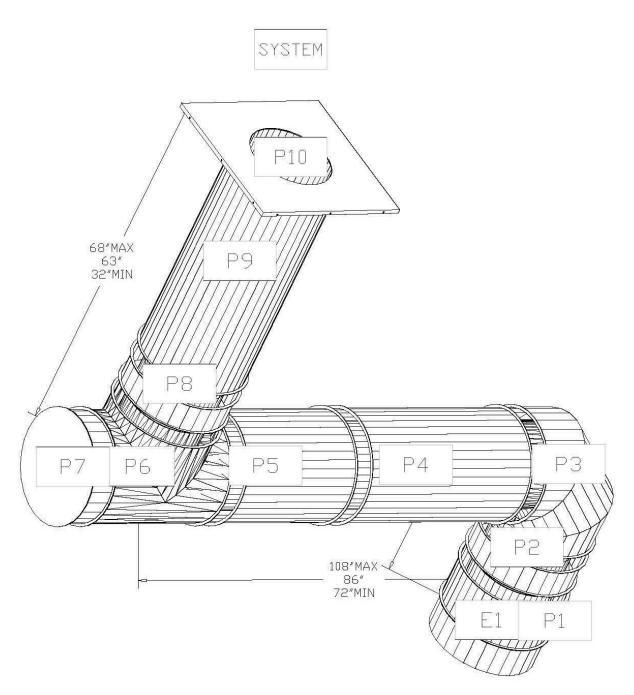
DuctWork #1 Top View





DuctWork #1 Side View







REVISIONS DESCRIPTION DATE:

9

PEEBE

DATE: 1/23/2019

DWG.# 3691686

DRAWN BY: AJB - 81

SCALE

NOT TO SCALE

SPECIFICATION

SHEET NO.

3 of 3

3

550 Maple Stre Suite A

805.205.4760

Ca. 93013

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DYLAN CHAPPELL

C - 32931

REN. 5.31.2019

No.	Description	Date

REVISION: /No

CAPTIVE AIRE SPEC

2/21/2019 3:50:24 PM

Furnish double wall, factory built grease duct for use with Type I kitchen hoods, which conforms to the requirements of NFPA-96. Products shall be ETL listed to UL-1978 and UL-2221 for venting air and grease vapors from commercial cooking operation. Models DW-2R, 3R and 3Z are used for grease duct applications when installed in accordance with these instructions and National Fire Protection Association "NFPA 96"; Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations. Double wall grease ducts are listed for a continuous internal temperature of 500 degrees F and intermittent temperatures of 2000 degrees F.

The duct sections shall be constructed of an inner duct wall and an outer wall with insulation in between. The inner duct wall shall be constructed of .036 inch thick, 430 type stainless steel and be available in diameters 8" through 24". The outer wall shall be constructed of stainless steel at a minimum of .024 inch thickness. The duct, based on model number, shall include layers of Super Wool 607 Plus insulation between the inner and outer wall. Grease duct joints shall be held together by means of formed V clamps and sealed with 3M Fire Barrier 2000+. The duct wall assembly shall be tested and listed at \mathcal{U} or zero inch clearance, according to classifications.

Classifications and Clearances

Total Weight

UL 2221: Standard for Fire Resistive Grease Duct Enclosure Assemblies. Chapter 7 of this standard references a test labeled Internal Fire Test. Section 7.1.1 references two installation conditions, Condition A and Condition B. Condition A represents all installation condition except for installation within non-ventilated combustible enclosures. Condition B represents installation within a non-ventilated combustible enclosures.

Model DW-2R is classified under UL2221 (Test of Fire Resistive Duct Enclosure Assemblies) as an alternate to 2-Hr. fire resistive shaft enclosures with a reduced clearance to combustibles (sizes 8" to 16" diameter). Model 2R is listed in accordance with the requirements for duct enclosure Condition B.

PLUMBING SPECIFICATION	PLUMBING FIXTURE SCHEDULE	LEGEND			
OBTAIN AND PAY FOR ALL PERMITS, FEES, CONNECTION CHARGES, AND TEMPORARY SERVICE CHARGES REQUIRED FOR EXECUTION OF WORK. MATERIALS AND INSTALLATION SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES. COORDINATE FIELD DETAILS WITH OTHER TRADES TO AVOID CONSTRUCTION DELAYS AND MAINTAIN REQUIRED CLEARANCES. DRAWINGS SHOW PIPE DIAGRAMMATICALLY. ADHERE TO DRAWINGS AS CLOSELY AS POSSIBLE IN LAYING OUT WORK. VARY RUN OF PIPING, AND MAKE OFFSETS DURING PROGRESS OF WORK AS REQUIRED TO MEET STRUCTURAL AND OTHER INTERFERENCES AS APPROVED BY ARCHITECT.	WC WATER CLOSET (ADA COMPLIANT/T24ACC), "KOHLER" MODEL K-HIGHLINE MODEL K-3658, VITREOUS CHINA, FLOOR MOUNT, 1.28 GALLON FLUSH TANK (PRESSURE LITE), ELONGATED BOWL, 17" RIM HEIGHT, OPEN FRONT SEAT (WHITE). LAVATORY (ADA COMPLIANT/T24ACC), "KOHLER" MODEL K-2907, VITREOUS CHINA, COUNTER MOUNT, "SLOAN" MODEL #EAF-275-ISM, ELECTRONIC SOLAR POWERED BARRIER-FREE FAUCET WITH THERMOSTATIC MIXING VALVE, 0.5 GPM FLOW RATE, SUPPLY WITH CHROME PLATED GRID DRAIN, CHROME PLATED P-TRAP, BRASS SUPPLY STOPS, AND "BROCAR PRODUCTS, INC." TRAP WRAP KIT C500R. HAND SINK, REFER TO ARCH PLANS FOR ALL KITCHEN PLBG FIXTURES. EACH SINK FAUCET SHALL BE MAX 0.4 GPM IN ACCORDANCE WITH CPC. PS 3-COMP SINK, REFER TO ARCH PLANS FOR ALL KITCHEN PLBG FIXTURES. EACH SINK FAUCET SHALL BE MAX 1.5 GPM IN ACCORDANCE WITH CPC.	SYMBOL ABREV DESCRIPTION CD CONDENSATE DRAIN PIPE FS FIRE SPRINKLER PIPE G GAS PIPE CW COLD WATER PIPE HW HOT WATER PIPE W SANITARY SOIL OR WASTE PIPE V VENT PIPE			
EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS. VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.	PS PREP SINK, REFER TO ARCH PLANS FOR ALL KITCHEN PLBG FIXTURES. 2 EACH SINK FAUCET SHALL BE MAX 1.5 GPM IN ACCORDANCE WITH CPC. SS SERVICE SINK, REFER TO ARCH PLANS FOR ALL KITCHEN PLBG FIXTURES. 1 EACH SINK FAUCET SHALL BE MAX 1.5 GPM IN ACCORDANCE WITH CPC.	—→ FCO FLOOR CLEAN OUT —→ CO DRAIN CLEAN OUT			
ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES, WINDOWS, AND OPENINGS INTO THE BUILDING. TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH THE ROOF. INSTALL ALL HOT WATER PIPING WITH 1 INCH THICK FIBERGLASS INSULATION WITH FACTORY JACKET AND "ZESTON" FITTINGS. ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURER'S SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES	FS FLOOR SINK, "JR SMITH" MODEL 3100, COMPLETE WITH DOME BOTTOM STRAINER, 1/2 GRATE, SUPPLY WITH P-TRAP. FD FLOOR DRAIN, "JR SMITH" MODEL 2005, ROUND TOP WITH P-TRAP AND TRAP PRIMER FITTING, SIZE 2".	→ WCO WALL CLEAN OUT POINT OF CONNECTION SOV SHUT OFF VALVE			
SHALL BE VALVED. INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS. PIPING SHALL NOT PASS THROUGH FOOTINGS. ALL PIPES SHALL BE RUN ABOVE FOOTING, UNLESS OTHERWISE SHOWN ON PLANS. SEE STRUCTURAL DRAWINGS FOR REQUIREMENTS. ALL WATER PIPING BELOW GRADE THAT IS UNDER PRESSURE SHALL HAVE A MINIMUM COVER OF 30". EXTEND ALL CONDENSATE AND INDIRECT DRAIN LINES FROM EQUIPMENT TO FLOOR SINKS OR OTHER APPROVED FIXTURES. TERMINATE ALL WATER AND GAS ROUGH—INS WITH SHUT—OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND FIXTURES. CUTTING, WHEN REQUIRED, SHALL BE SUBJECT TO APPROVAL BY ARCHITECT.		PLUMBING EQUIPMENT SCHEDUL WH WATER HEATER, "RINNAI" MODEL RUR98I, GAS FIRED TANKLESS, 199 M INPUT, 7.0 GPM AT 55°F TEMP RISE. COMPLETE WITH INTERAL RECIRC PUMP AND PROGRAM CYCLE. ROUTE 3"PVC FLUE VENT AND COMBUSTI AIR INTAKE TO OUTSIDE IN ACCORDANCE WITH MFR'S REQUIREMENTS. INSTALL T&P RELIEF VALVE ON HW SUPPLY WITH DRAIN TO THE OUTSI TRAP PRIMER, "PPP INC." MODEL PR-500 WITH DISTRIBUTION UNIT AS REQUIRED FOR QUANTITY OF TRAPS SERVED. LOCATE BEHIND ACCESS DOOR IN WALL ADJACENT TO FLOOR DRAINS AT REC. BLDG. WATER HAMMER ARRESTOR, "PPP INC." SC SERIES, LOCATE AT END OF MAIN LINE SERVING TOILET ROOMS, FULL SIZE OF LINE SERVING TOILET ROOMS. INSTALL IN PLBG WALL BEHIND LOCKABLE ACCESS DOOR.			
BIND SUBMITTAL IN BOOKLET FORM. SUBMIT SHOP DRAWINGS, BROCHURES AS FOLLOWS:	SCOPE OF WORK	WATER CALC			
A. PIPE FITTINGS AND INSULATION. B. FIXTURES AND EQUIPMENT. C. VALVES. SEAL PIPES PASSING THROUGH FIRE RATED WALLS WITH APPROVED FIRE STOP MATERIAL. PIPE AND FITTINGS SHALL BE AS FOLLOWS: SERVICE SIZE SPECIFICATIONS	FIELD VERIFY (E)CONDITIONS AND (E)PIPING FOR SIZE, ELEVATION, AND LOCATION. INSTALL NEW TOILET ROOM FIXTURES AND KITCHEN FIXTURES, BY EXTENDING (E)WASTE, (E)GREASE WASTE, (E)VENT, (E)CW, (E)GAS PIPING SYSTEMS AS SHOWN.	WATER: EACH BLDG FIXTURE UNITS TOTAL UNITS QUANTITY FIXTURE CW CW 1 WATER CLOSET 2.5 = 2.5 1 LAV 1 = 1 2 HAND SINK 1 = 2 2 SINK 2 = 4 1 SERVICE SINK 2 = 2 1 WASHER 4 = 4			
SERVICE SIZE SPECIFICATIONS GAS ALL SCHEDULE 40 BLACK SEAMLESS STEEL, ASTM A106 OR A53, GRADE A OR B. FITTINGS: 150 LB. BLACK MALLEABLE IRON, SCREWED, ASTM A338. VENT ALL SCHEDULE 40 GALVANIZED BUTT WELD STEEL, ASTM A120. FITTINGS: 150 LB. GALVANIZED SCREWED; OR SCH. 40 PVC DWV PIPE AND FITTINGS WITH CEMENT WELDED JOINTS.	FOR ALL NEW EQUIPMENT AN OPERATION AND SYSTEMS MANUAL SHALL BE PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF FINAL INSPECTION. PROVIDE TESTING AND ADJUSTMENT FOR HVAC AND PLBG SYSTEMS PER 2016 CAL GREEN CODE.	TOTAL = 16 PLBG FIXTURES = 16 FU = 12 GPM; (E)3" WM $1-1/2$ " TENANT SUPPLY PRESSURE AVAILABLE = 100 PSI; 60 PSI REG. PRESSURE AT BLDG = 60 PSI LOSS THRU METER = 2 PSI			
CW, HW, CA ALL COPPER TUBING TYPE L ASTM B88. FITTINGS: CAST BRONZE OR WROUGHT COPPER SOLDER. PROCESS ALL SCH. 80 CPVC PIPE AND FITTINGS CONFORMING TO ASTM D 1874 WITH HEAVY-BODIED CEMENT WELDED JOINTS OR EQUIVALENT FOR TEMPERATURE AND FLUID. DOMESTIC ALL HUBLESS CAST IRON SERVICE WEIGHT PIPE AND FITTINGS WITH NEOPRENE COUPLINGS AND CORRUGATED STAINLESS STEEL BANDS; OR SCH. 40	FIXTURE WATER FLOW RATES RESIDENTIAL FIXTURE FLOW FIXTURE FLOW WATER CLOSET 1.28 GPF WATER CLOSET 1.28 GPF	LOSS THRU BACKFLOW DEVICE = - PSI LOSS THRU PRV = 5 PSI ELEVATION LOSS = 7 FT X 0.43 = 3 PSI RESIDUAL PRESSURE (FLUSH TANK) = 10 PSI PRESSURE AVAILABLE FOR LOSS = 40 PSI FRICTION LOSS/100 FT = 40 PSI/100 FT FRICTION LOSS = 40 PSI/100 FT X 250 FT = 16 PSI (E) WATER METER SIZE = 3" (E) WATER SUPPLY SIZE = 1-1/2"			
PVC DWV PIPE AND FITTINGS WITH CEMENT WELDED JOINTS (OUTSIDE OR BELOW GRADE). HANGERS AND SUPPORTS SHALL BE DESIGNED TO SUPPORT WEIGHT OF PIPE, WEIGHT OF FLUID, AND WEIGHT OF PIPE INSULATION. PROVIDE EACH HANGER OR CLAMP WITH AN ISOLATION MATERIAL, HAVING A METAL BACKING, TO ISOLATE SOUND VIBRATION AND ELECTROLYSIS. ISOLATOR NOT REQUIRED FOR SOIL, WASTE, VENT OR FUEL GAS PIPING. INSULATED PIPING SHALL HAVE A SADDLE INSTALLED AT EACH HANGER OR	LAVATORY 1.2 GPM URINAL 0.125 GPF SINK 1.5 GPM LAVATORY 0.4 GPM* SHOWER 1.8 GPM SINK 1.5 GPM SHOWER 1.8 GPM * MAX. 0.25 DURATION	PIPE SCHEDULE (FU) COLD WATER SIZE F.T. F.V. HW GPM FPS 1/2" 5 - 3 4 6 3/4" 16 - 9 12 8 1" 31 - 17 20 8 1-1/4" 56 - 29 31 8 1-1/2" 104 - 48 44 8			
SUPPORT. SIZE SADDLES FOR PIPE DIAMETER AND FOR INSULATION THICKNESS. FURNISH ALL MATERIALS AND COORDINATE INSTALLATION OF FLASHING AND COUNTERFLASHING FOR ALL ROOF PENETRATIONS FOR VENTS, PIPES, AND FLUES.	MINIMUM CONNECTION SIZES	GENERAL NOTES			
PURGE ALL WATER AND GAS LINES BEFORE FINAL INSPECTION. TEST ALL WATER SYSTEMS AT HYDROSTATIC PRESSURE OF NOT LESS THAN 150 PSIG, WITH 5 PSIG PERMISSIBLE DROP AT END OF FOUR HOURS. FILL ENTIRE WASTE AND VENT SYSTEM WITH WATER TO LEVEL OF HIGHEST VENT STACK. SYSTEM SHALL HOLD WATER FOR TWO HOURS. TEST FUEL GAS PIPING WITH AIR AT A PRESSURE OF NOT LESS THAN 10 PSIG FOR A MINIMUM OF 15 MINUTES WITH NO PERCEPTIBLE DROP IN PRESSURE. UPON COMPLETION OF WORK, ALL CHANGES SHALL BE NOTED ON A NEW SET OF PRINTS AND DELIVERED TO THE ARCHITECT. TESTS MUST BE PERFORMED AND SYSTEMS APPROVED PRIOR TO PAINTING, COVERING, INSULATING, FURRING, OR CONCEALING PIPING.	FIXTURE S/W VENT DRAIN COLD WATER WATER CLOSET (FLUSH TANK) 4" 2" - 1/2" - LAV/SINK 2" 1-1/2" - 1/2" 1/2" FLOOR SINK 2" 1-1/2"	 COORDINATE ARRANGEMENTS FOR THE UTILITIES REQUIRED. PAY ALL COSTS INVOLVED IN OBTAINING THE SERVICES. INSTALL PIPING BELOW GRADE IN TRENCH CONFORMING TO SECTIONS 315, 609, 718, AND 720 OF CPC, 2016 EDITION. DISINFECT POTABLE WATER PIPING IN ACCORDANCE WITH SECTION 609.9 OF CPC, 2016 EDITION. FIELD VERIFY EXISTING PIPING SYSTEMS FOR SIZE, LOCATION, AND INVERT ELEVATION. A LICENSED PLUMBING CONTRACTOR SHALL DETERMINE WHETHER ANY BLDG SEWER DRAINS ARE LOWER THEN THE NEAREST UP STREAM MANHOLE RIM HEIGHT. IF LOWER, A BACKWATER VALVE SHALL BE INSTALLED TO THE SEWER LATERAL IN ACCORDANCE WITH CITY OF NEWBURY PARK CONSTRUCTION STD'S. 			

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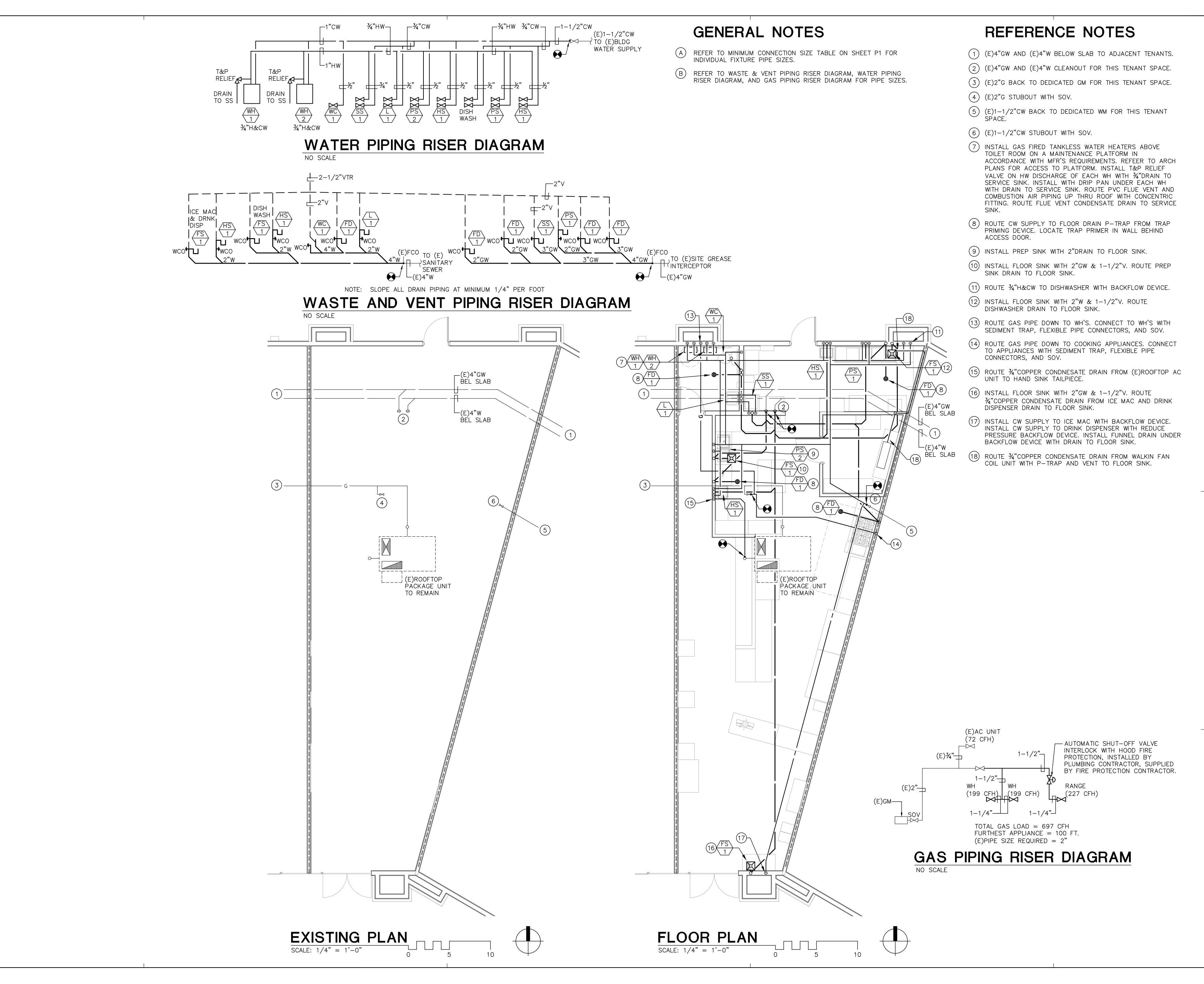
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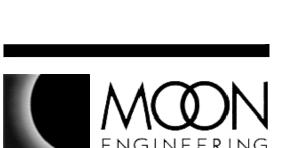


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