East Side Mosquito Abatement - TI

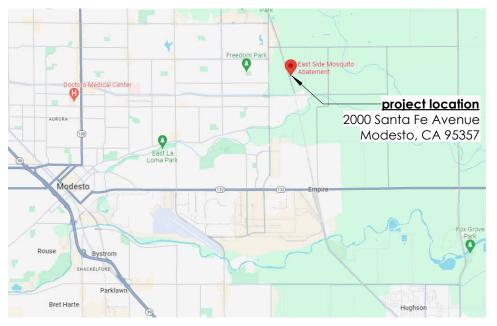
Scope of work:

- 1. Remodel (E) building with ~ 820 SF addition.
- 2. Mechanical work with (N) system and duct works
- 3. Install (N) men's and women's accessible shower stall
- 4. (N) Electrical work
- 5. Demolition of non-bearing wall, countertop, sink, lockers, doors and relocate (E) equipment.

Owner/Applicant

J. Wakoli Wekesa, Phd 2000 Santa Fe Avenue Modesto, CA 95357 Phone: (209) 522-4098

Vicinity Map:



Project Team: **Engineer**

JCWagner & Associates 2132 N El Dorado St. Stockton, CA 95204 Contact: Doug Wagner, PE Wk (209) 227-7646

<u>General Contractor</u> TBD

Mechanical

Alexander Scheflo and Associates, Inc. 2926 Pacific Ave. Stockton, CA 95204 Contact: Mitch Scheflo Phone: (209) 948-9761

Code Compliance:

<u>Electrical</u>

HCS Engineering

Stockton, CA 95219

4512 Feather River Dr. #F

Contact: Richard Smith

Phone: (209) 478-8270

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

- 2022 California Building Code 2022 California Electrical Code
- 2022 California Mechanical Code
- 2022 California Plumbing Code 2022 Building Energy Efficiency Standards
- 2022 California Existing Building Code 2022 California Fire Code
- 2022 California Green Building Code

Any Codes Referenced by the CBC, e.g. ASCE 7, ACI 318, 2021 IBC, AISC-360, etc.

Basis For Design Governing Building Code: 2022 CBC Risk Category: II **Loading Information** Gravity Roof Ceiling Floors Storage and Egress Storage Egress D Lr D Lr D L 15 psf 20 psf 10 5 10 40 Live loads reduced as permitted by building code Seismic **Analysis Procedure** - I ap ASCE 7-16 Chapter 13.3/13.6 SD1 Site Class Seismic Design Category SDS S1 Rp Fp 0.60 0.291 D 0.25 Wp 2.5 0.37 Wind Analysis Procedure: ASCE 7-16 CH 26.10 Main Wind Force Resisting System Component & Cladding (PSF) V exposure qz GCpi N/A N/A N/A N/A 93 mph C 16 psf 0.18 N/A N/A N/A N/A Deflection Limits: Wood Roof Elements: Trusses and Joists Total load: L/240 Live Load: L/360

Project Data Project Address

Project Jurisdiction APN

Code Analysis

Risk Category Construction Type Existing Building Height Max. Building Height Max. Building Area Zoning

Fire Protection (E) Fire Sprinklers

(E) Fire Alarm Adjacent Tenants **Occupancy Separation**

Building Data

(E) Front Office (E) Rear Office (E) Storage (E) Open Shade Structure (N) Rear Office

<u>Area</u>

Parcel Size **Building Footprint** Lot Coverage

<u>General Notes:</u>

- 3.
- 4.
- this item.
- 5. building department and/or OSHA requirements.
- 6. precedence over the general notes.
- 7

9

- 10. 11.

2000 Santa Fe Avenue Modesto, CA 95357 Stanislaus County 014-026-029

II (Table 1604.5) V-B ±32'-0" 35'-0'' N/A A-2-40

Deffered Submittal Deffered Submittal N/A

Total

None Required (Table 508.4) **Existing SF** Proposed SF 2,400 SF 1,657 SF 6,000 SF 5,232 SF 820 S

558,482 sq ft / 12.82 acres 16,109 SF 3%

16,109 SF

These drawings have been prepared using standards of professional care and completeness normally exercised under similar conditions by a reputable Engineer. They necessarily assume the work depicted will be performed by an experienced Contractor and/or workman who has a working knowledge of the applicable code, standards and requirements of industry acceptable standards of good installation/construction practices. As not every condition or detail is (or can be) explicitly shown on these drawings, it is understood that the Contractor will use acceptable industry standard good practice for all miscellaneous work not shown on the plans.

Calculations and design of miscellaneous non-structural items, such as stairs, railings, non-structural walls and prefabricated items, such as roof trusses or floor trusses, are not included and are to be provided by others unless specifically noted on these drawings.

These drawings represent the finished structure. They do not explain the method of construction. The Contractor shall be solely responsible for construction means, methods, techniques, sequences, schedule and procedures. It shall be the Contractor's responsibility to design and provide adequate shoring, bracing, form-work, etc. as required for the protection of life and property during construction. Visits to the site by the Engineer shall not include inspection of this item.

During construction materials shall be uniformly spread out such that the design live load per square foot as stated herein is not exceeded. Visits to the site by the Engineer shall not include inspection of

The Contractor shall be responsible for all excavation procedures including shoring and protection of adjacent property, structures, streets and utilities in accordance with local building codes, the local

The Contractor shall be responsible for verification of all dimensions, conditions and elevations within architectural and/or structural drawings prior to the start of construction. The Contractor shall inform the Architect or Engineer in writing of any discrepancies or omissions noted on the drawings. Any such discrepancy, omission or variance not reported before the start of the construction shall be the responsibility of the Contractor. If discrepancies exist on these drawings, notes and details shall take

Where reference is made to codes or test standards for materials of construction, the latest edition and/or addendum adopted by the governing agency shall be used.

Any options stated or drawn are for the Contractor's convenience. If the option is used the Contractor shall use the latest code, test standard or manufacturer's recommendations.

Typical details and notes shall apply, though not necessarily indicated at a specific location on the drawings. Where no details are shown, construction shall conform to similar work on the project. Details may show only one side of the detail or may omit information for clarity.

Verify and establish all openings, inserts or offsets for Architectural, Mechanical, Electrical or Plumbing, etc., with appropriate trades, drawings and Subcontractors prior to construction.

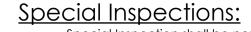
All inspections required by the Codes, Local Building Department or the Plans shall be provided by an independent qualified inspection agency or the Building Department. Site visits by the Engineer do not constitute an inspection, unless specifically contacted for.

12. Shop Drawings shall be submitted for all structural items upon written request or as detailed in Contract Documents. Shop drawings are reviewed only for general compliance with the structural drawings. Review does not indicate that the drawings are correct or complete. Responsibility shall rest with the Contractor. Any changes, substitutions, or deviations from the Contract Drawings shall be clouded. Any of the aforementioned shall not be considered approved by the Engineer unless specially noted. The shop drawings do not supersede or replace the original Contract Drawings. Any engineering provided by others and submitted for review shall bear the seal of the appropriate Registered Engineer. JCWagner & Associates shall not be responsible for the adequacy of

209.62 345.99 Ó area of work P

and the second s

1 (E) Site Plan A0.0 1" = 160'-0"



Special Inspection shall be performed by qualified firm independent of the Contractor, Architect, Engineer of Record or Owner according to 2022CBC Chapter 17. The Special Inspector shall observe the below list of items for conformance with the Contract Documents. The Special Inspector shall send reports to the Owner and all applicable parties. All discrepancies shall be brought to attention of the Contractor for correction. The Special Inspector shall submit a final report stating that the special inspection work, to the best of his knowledge, was performed in compliance with the plans, specifications, Codes and applicable workmanship of the CBC. Special Inspection shall be provided for the below list of items:

Geotechnical Engineer shall be retained to provide observation and testing services during the grading and foundation phase of construction per Geotechnical report recommendations and inspection and testing reports shall be submitted to the Building Department.

<u>Required Inspections</u>

<u>Periodic</u>

1. Section 1705.3 Post Installed Anchors

engineering designs performed by others. Allow 5 working days for the Engineer's review. One copy of each submittal shall be retained for Engineer's records.

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2000 Mode CM Drawn By checker DFW 85380 Job # Noted

Revision Schedule Description # Date A 4/12/04 BID SET

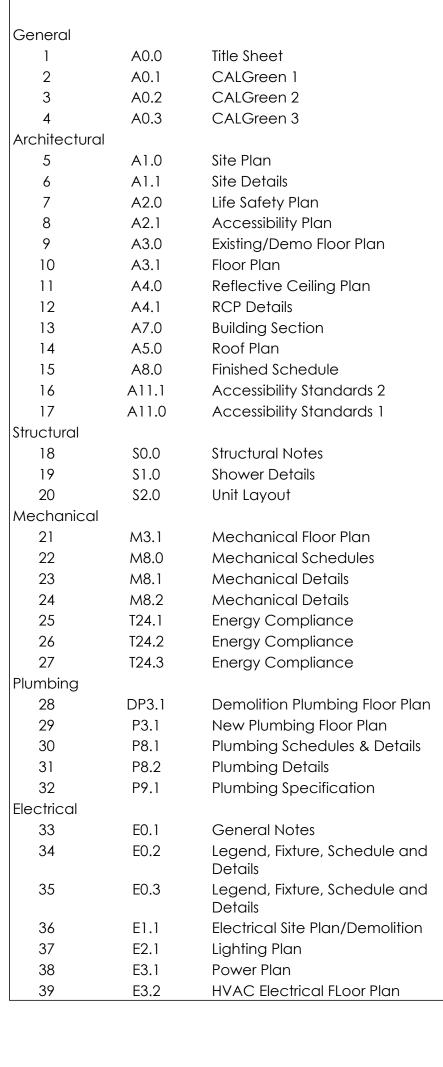


2132 N El Dorado St Stockton, CA 95204 (209) 227-7646



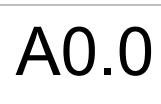
These drawings and specifications are the property and copyright of JCWagner & Associates and shall not be used or duplicated in part or in whole on any other work except by agreement with JCWagner & Associates.

Title Sheet



Sheet List

Number Sheet Number Sheet Name



<u>Continuous</u>



2022 CALIFORNIA GREEN BUILDING STANDARDS

RESPON.				RESPON.	
N/A PARTY	CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL	Y	N/A	PARTY	5.106.2 Stormwater Pollution Prev
	301.1 SCOPE Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists				Comply with all lawfully enacted more of land, or (2) disturb less th development sale. Note: Projects that (1) disturb on
	and may be included in the design and construction of structures covered by this code, but are not required unles adopted by a city, county, or city and county as specified in Section 101.7.				of the larger common plan of de detailed in the applicable Natio Stormwater Discharges Associat Water Resources Control Board
	301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.				Lake Tahoe Hydrologic Unit). The NPDES permits require postc runoff (pre-project hydrology) w The NPDES permits emphasize ru evapotranspiration and infiltratic
	A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A] . When the code section applies to both, no banner will be used.				practices, and conversation des nonstructural practices is require agency.
	301.3.1 Nonresidential Additions and Alterations That Cause Updates to Plumbing Fixtures Only Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq. for definitions, types				Refer to the current applicable p www.waterboards.ca.gov/cons measures should be given during development.
	of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance. 301.3.2 Waste Diversion The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is				5.106.4 Bicycle Parking For buildings within the authority comply with 5.106.4.1. For buildir Section 105, comply with Section
	301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES (see GBSC)				5.106.4.1 Bicycle Parking [BSC-C Comply with Sections 5.106.4.1.1 stricter.
	301.5 HEALTH FACILITIES (see GBSC)				5.106.4.1.1 Short-Term Bicycle Po If the new project or an additior
	SECTION 302 MIXED OCCUPANCY BUILDINGS 302.1 MIXED OCCUPANCY BUILDINGS.				anchored bicycle racks within 2 visitor motorized vehicle parking Exception: Additions or alteratio
	In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.				5.106.4.1.2 Long-Term Bicycle Pc For new buildings with tenant sp
	SECTION 303 PHASED PROJECTS 303.1 PHASED PROJECTS				parking for 5 percent of the tend parking facility.
	For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply. 303.1.1 Initial Tenant Improvements The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent	9			5.106.4.1.3 For additions or alterations that of bicycle parking for 5 percent of bicycle parking facility.
	tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations. ABBREVIATION DEFINITIONS				5.106.4.1.4 For new shell buildings in phasec tenant-occupant vehicular park
	HCDDepartment of Housing and Community DevelopmentBSCCalifornia Building Standards CommissionDSA-SSDivision of the State Architect, Structural Safety				5.106.4.1.5 Acceptable bicycle parking fac from the street and shall meet o
	OSHPDOffice of Statewide Health Planning and DevelopmentLRLow RiseHRHigh RiseAAAdditions and AlterationsNNew				 Covered, lockable enclosure Lockable bicycle rooms with Lockable, permanently anch Note: Additional information on Sacramento Area Bicycle Advoc
	CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES DIVISION 5.1 PLANNING AND DESIGN SECTION 5.101 GENERAL				5.106.4.2 Bicycle Parking [DSA-S For public schools and commun 5.106.4.2.1 Student Bicycle Parki
	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				Provide permanently anchored capacity racks per new building 5.106.4.2.2 Staff Bicycle Parking Provide permanent, secure bicy
	SECTION 5.102 DEFINITIONS 5.102.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference).				parking spaces per new building or staff parking area and shall m 1. Covered, lockable enclosure 2. Lockable bicycle rooms with 3. Lockable, permanently anch
	CUTOFF LUMINARIES. Luminaries whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percen at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.	t)			5.106.5.3 Electric Vehicle (EV) C Construction to provide electric with Section 5.106.5.3.1 and shal
	 LOW-EMMITTING AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following: 1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962. 2. High-efficiency vehicles, regulated by US EPA, bearing a fuel economy and greenhouse gas rating of 9 or 10 as regulated under 40 CFR Section 600 Subpart D. 				Code and the California Electric Exceptions: 1. On a case-by-case basis whe section is not feasible based upo a. Where there is no loo b. Where the local utili
	NEIGHBORHOOD ELECTRIC VEHICLES (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.				c. Where there is evide infrastructure design rec adversely impact the c 2. Parking spaces accessible on
	TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.				comply with this code section. 5.106.5.3.1 EV Capable Spaces [
	VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designated for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.				EV capable spaces shall be prov 1. Raceways complying with the be provided and shall originate close proximity to the proposed enclosure or equivalent. A comr
	Note: Source: Vehicle Code, Division 1, Section 668 ZEV. Any vehicle certified to zero-emission standards.				 A service panel or subpanel(s dedicated 208/240 volt, 40-amp 30-ampere minimum to an instal
	SECTION 5.106 SITE DEVELOPMENT				 The electrical system and any rated amperage at each EV ca The service panel or subpane
	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:				space(s) as "EV CAPABLE". The re "EV CAPABLE." Note: A parking space served by space shall count as at least one
	5.106.1.1 Local Ordinance Comply with a lawfully enacted storm water management and/or erosion control ordinance.				with any applicable minimum p Vehicle Code Section 22511.2 fc
	5.106.1.2 Best Management Practices (BMPs) 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.				TOTAL NUMBER OF ACTUAL PARKING SPACES
	1. Soil loss BMP's that should be considered for implementation as appropriate for each project include, but are not limited to, the following:				0-9
	 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. 				26-50 51-75
	 d. Mulching or hydroseeding to stabilize disturbed soils. e. Erosion control to protect slopes. f. Protection of storm drain inlets (gravel bags or catch basin inserts). 				76-100 101-150
	 g. Perimeter sediment control (perimeter slit fence, fiber rolls). h. Sediment trap or sediment basin to retain sediment on site. i. Stabilized construction exits. 				151-200 201 AND OVER
	j. Wind erosion control. k. Other soil loss BMP's acceptable to the enforcing agency.				 Where there is insufficient ele- The number of required EVCS total number of required EV cap
	 Good housekeeping BMP's to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but an not limited to, the following: a. Dewatering activities. 	e			5.106.5.3.2 Electric Vehicle Char EV capable spaces shall be prov 5.106.5.3.1. The EVCS required by 2 and Direct Current Fast Chargi
	b. Material handling and waste management. c. Building materials stockpile management. d. Management of washout areas (concrete, paints, stucco, etc.). e. Control of vehicle/equipment fueling to contractor's staging area.				One EV charger with multiple co permitted if the electrical load c
	f. Vehicle and equipment cleaning performed off site. g. Spill prevention and control. h. Other housekeeping BMP's acceptable to the enforcing agency.				accumulatively supplied to the E The installation of each DCFC EV capable spaces without EVSE by
					the service panel or subpanel.

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

				DECDON		(-			/				
evention for Projects That Disturb One or Mon ed stormwater discharge regulations for pro than one acre of land but are part of a larg	jects that (1) disturb one acre ger common plan or	e or	N/A	RESPON. PARTY		5.106.5.3.3 Use of Auton ALMS shall be permitted Section 5.106.5.3.1 for e EVSE controlled by an A	d for EVCS. each EVCS ALMS shall	When ALMS may be redu deliver a min	is installed, uced when s imum 30 am	the required e serviced by ar operes to an E	n EVSE contro V when charg	lled by an ALM	MS. Each
one acre or more of land, or (2) disturb less th development or sale must comply with the p ional Pollutant Discharge Elimination System ated with Construction and Land Disturbanc d or the Lahontan Regional Water Quality C	oost-construction requiremen (NPDES) General Permit for e Activities issued by the Stat	re				shall deliver a minimum 5.106.5.3.4 Accessible E When EVSE is installed, of Chapter 11B, Section 11 Note: For EVCS signs, ref	EVCS accessible 1B-228.3. fer to Caltr	EVSC shall b	e provided i	in accordance	e with the Ca		-
tconstruction runoff (post-project hydrology) with the installation of postconstruction storr runoff reduction through on-site stormwater tion through nonstructural controls, such as l esign measures. Stormwater volume that ca ired to be captured in structural practices a	res. D)				and Pavement Marking 5.106.5.4 Electric Vehicl Construction shall comp equipment (EVSE). Con loading spaces shall als EVSE. Exceptions:	le (EV) Cho ply with Se istruction fo	arging: Mediu ction 5.106.5. pr warehouse	.4.1 to facilities, grocery s	ate future inst tores and reta	allation of ele il stores with p	planned off-str	reet	
nstructionstormwater. Consideration to the s	 bermits on the State Water Resources Control Board website at: cuctionstormwater. Consideration to the stormwater runoff management the initial design process for appropriate integration into site c. Where the local utility is unable to supply adequate power. c. Where there is evidence suitable to the local enforcing agency substantia local utility infrastructure design requirements, directly related to the impleme 						ating that adc	ditional					
ty of California Building Standards Commissi dings within the authority of the Division of th on 5.106.4.2						5.106.5.3, may When EVSE(s) is/are inst Electrical Code, and as	alled, it sho s follows:	all be in acco	ordance wit	h the Californi	a Building Co		
•CG] .1 and 5.106.4.1.2; or meet the applicable lo	ocal ordinance, whichever is					5.106.5.4.1 Electric Vehi Stores with Planned Off- In order to avoid future raceway(s) or busway(s installed at the time of c	-Street Loa demolitior s) and ade	ding Spaces In when addir equate capa	[N] ng EV charg city for trans	ing supply and sformer(s), serv	d distribution rice panel(s)	equipment, sp or subpanel(s)	oare) shall be
Parking on or alteration is anticipated to generate vi 200 feet of the visitors' entrance, readily visit og spaces being added, with a minimum of ions which add nine or less visitor vehicular p	ole to passers-by, for 5% of ne one two-bike capacity rack.					and specifications shall 1. The transformer, main Table 5.106.5.4.1 to acc 2. The construction doc loading space(s) reserved and a pathway reserved charging cabinet(s) and	n service e commodat cuments sh red for mer ed for routir	quipment an re the dedicc all indicate o dium- and he ng of conduit	d subpanel ated branch one or more eavy-duty ZE t from the te	shall meet the circuits for the location(s) co V charging co mination of th	e future instal nvenient to tl abinets and c	lation of EVSE. ne planned of charging dispe	ff-street ensers,
Parking spaces that have 10 or more tenant-occupc nant-occupant vehicular parking spaces wi						3. Raceway(s) or buswo potential future mediun potential future location 4. The raceway(s) or bu future location of the ch	ay(s) origin m- and heo n of the ch usway(s) sh	ating at a ma avy-duty EVSI arging equip all be sufficie	ain service p E will be loce oments for m ent size to co	banel or a subp ated and shall nedium- and h arry the minimu	terminate in leavy-duty ve um additiona	close proximity to the nicles. system load to the	
t add 10 or more tenant-occupant vehicula of the tenant vehicular parking spaces being						TABLE 5.106.5.4.1 RACE	WAY CONDU	T AND PANEL PO	WER REQUIREN	NENTS FOR MEDIUN	1- AND HEAVY-D	UTY EVSE [N]	
ed projects provide secure bicycle parking f Irking spaces within a minimum of one bicyc		ed				BUILDING TYPE	BUILDIN	G SIZE (SQ. FT.)		R OF OFF-STREET DING SPACES	REQUIRED RACEWAY & TRANSFORA	L CAPACITY (KVA) FOR BUSWAY AND AER & PANEL	
						Grocery	10,00	00 to 90,000	3 (1 or 2 or Greater		00 00	
acility for Sections 5.106.4.1.2, 5.106.4.1.3 and one of the following: res with permanently anchored racks for bic		ent				Retail		er than 90,000	1 0	or Greater 1 or 2		00	
n permanently anchored racks; or hored bicycle lockers.								0 to 135,000 		or Greater or Greater		00	-
n recommended bicycle accommodations ocates.	may be obtained from					Warehouse		0 to 256,000		1 or 2	2	00	
\$\$] nity colleges, comply with Sections 5.106.4.2	2.1 and 5.106.4.2.2.						Greate	r than 256,000		or Greater or Greater		00	
res with permanently anchored racks for bic in permanently anchored racks; or shored bicycle lockers. Charging [N] c vehicle infrastructure and facilitate electri all be provided in accordance with regulati rical Code. here the local enforcing agency has determ	c vehicle charging shall com ions in the California Building	ply				 lawfully enacted pursuant to Section 101.7, whichever is more stringent. Exceptions: Luminaire's that qualify as exceptions in Sections 130.2(b) and 140.7 of the California Energy Code. Emergency lighting. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction. Luminaire's with less than 6,200 initial luminaire lumens. 							
oon one of the following conditions: ocal utility power supply.								M ALLOWABLE B	ACKLIGHT, UPL	IGHT AND GLARE ((BUG) RATINGS 1,2	LIGHTNING]
ility is unable to supply adequate power. dence suitable to the local enforcment age equirements, directly related to the impleme construction cost of the project. only by automated mechanical car parking	entation of Section 5.106.5.3,					ALLOWABLE RATING Maximum Allowable Back Rating (B) ³	-	ZONE LZO	ZONE LZ1	ZONE LZ2	ZONE LZ3	ZONE LZ4	
5 [N] ovided in accordance with Table 5.106.5.3.						mounting heights (MH) fro property line		N/A	No Limit	No Limit	No Limit	No Limit	
he California Electrical Code and no less the e at a service panel or a subpanel(s) serving d location of the EV capable space and int	an 1-inch (25 mm) diameter s the area, and shall terminat o a suitable listed cabinet, bo	hall e in				Luminaire back hemispher MH from property line		N/A	B2	B3	B4	B4	-
nmon raceway may be used to serve multip I(s) shall be provided with panel space and apere minimum branch circuit for each EV c	ole EV capable spaces. electrical load capacity for a	a				Luminaire back hemispher 0.5-1 MH from property line	e	N/A	B1	B2	B3	B3	
alled EVSE at each EVCS. ny on-site distribution transformers shall have apable space.	sufficient capacity to supply	' full				Luminaire back hemispher than 0.5 MH from property Maximum Allowable Uplig	y line	N/A	BO	ВО	B1	B2	
nel circuit directory shall identify the reserved raceway termination location shall be perm						Rating (U)	יייפ						-
by electric vehicle supply equipment or des ne standard automobile parking space only	r for the purpose of complyin	g				For area lighting ³ For all other outdoor lightir	ng,	N/A	U0	UO	UO	UO	
parking space requirements established by for further details.	an enforcement agency. See	Ð				including decorative lumir Maximum Allowable Glare	naires	N/A	Ul	U2	U3	UR	
G NUMBER OF REQUIRED EV NUM	BER OF EVCS (EV CAPACBLE CES PROVIDED WITH EVSE) ²					(G) Luminaire greater than 2 M	WH from	N/A	G1	G2	G3	G4	
0 2	0 0					Luminaire front hemisphere	re is a 1-2	N/A	G0	G1	G1	G2	
8 13	2 3					MH from property line	re is 0.5-1	N/A	 G0	G0	Gl	Gl	
17 25	4 6					MH from property line	re is less	N/A	G0 	G0 G0	GI	GI	
35 20% of total ¹ 25	9 % of EV capable spaces ¹					than 0.5 MH from property 1. IESNA Lighting Zones	0 and 5 a	re not applic	able; refer to	o Lighting Zon) nia
lectrical supply. CS (EV capable spaces provided with EVSE) apable spaces shown in column 2.	in column 3 count toward the	e				Energy Code and Chap 2. For property lines that considered to be 5 feet section. For property line considered to be the section.	at abut pul t beyond t es that ab	olic walkways he actual pro ut public roa	s, bikeways, operty line fo dways and	plazas and po or purpose of o public transit o	determining c corridors, the	compliance w property line r	rith this
arging Stations (EVCS) ovided with EVSE to create EVCS in the num by Table 5.106.5.3.1 may be provided with E ging (DCFC), except that at least one Level	VSE in any combination of Le	evel				considered to be the co determining compliance 3. General lighting lumi reduced ratings. Decor- lighting".	ce with this inaries in a	section. reas such as	outdoor pa	rking, sales or s	storage lots sl	nall meet thes	
connectors capable of charging multiple EV I capacity required by Section 5.106.5.3.1 for e EV charger.													
EVSE shall be permitted to reduce the minim		1											
by five and reduce proportionally the requir	num number of required EV red electrical load capacity t	0											

N/A RESPON. PARTY

Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR, ETC.)

lines to determine the required backlight rating.

5.106.8.1 Facing-Backlight

Luminaire's within 2 MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and the distance to the nearest point of that property line. Exception: Corners. If two property lines (or two segments of the same property line) have equidistant points to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest point(s) on the property

5.106.8.2 Facing-Glare

For luminaire covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2 MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere. Note: [N]

1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements

for parking facilities and walkways. 2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IESTM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B.

3. Refer to the California Building Code for requirements for additions and alterations.

5.106.10 Grading and Paving

Construction plans shall indicate how sitegrading 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:

 Swales. 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 drainage path.

5.106.12 Shade Trees [DSA-SS]

Shade trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice, Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface Parking Areas

Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50% of the parking area within 15 years. **Exceptions:** Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape Areas

Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade of 20% of the landscape area within 15 years. Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3 Hardscape Areas

Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 20% of the hardscape area within 15 years. Exceptions:

1. Walkways, hardscape areas covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting. 2. Designated and marked play area of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

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

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION SECTION 5.301 GENERAL

5.301.1 Scope

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

SECTION 5.302 DEFINITIONS

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

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which are two major influences on the amount of water that needs to be applied to the landscape.

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

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to, wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include wastewater from kitchen sinks or dishwashers.

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

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO) [HCD]. The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the US Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER [HCD]. Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the US Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter, attaining a quality that is suitable to use the water again.

SUBMETER [HCD 1]. A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civil Code Section 1954.202(g) and Water Code Section 517 for additional details.)

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

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CM Drawn By DEW checker 85380 Job # Scale Noted **Revision Schedule**

Date Description A 4/12/04 BID SET



2132 N El Dorado St Stockton, CA 95204 (209) 227-7646



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CALGreen 1





2022 CALIFORNIA GREEN BUILDING STANDARDS

NONRESIDEN [®]	Τ

					<u>-</u>			
Y	N/A	RESPON. PARTY	SECTION 5.303 INDOOR WATER USE		-	Y	N/A RESPON PARTY	SECTION 5.402 DEFINITIONS
			5.303.1 Meters Separate submeters or metering devices shall be insto	alled for the uses described in Sections 5.30)3.1.1 and			5.402.1 Definitions The following terms are def
			5.303.1.2. 5.303.1.1 Buildings in Excess of 50,000 Square Feet					ADJUST. To regulate fluid flo or adjust a damper.
			Separate submeters shall be installed as follows: 1. For each individual leased, rented or other tenant than 100 gal/day (380 L/day), including, but not limite	ed to, spaces used for laundry or cleaners,				BALANCE. To proportion flo according to design quant
			or food service, medical or dental office, laboratory, 2. Where separate submeters for individual building te following subsystems:	enants are unfeasible, for water supplied to				BUILDING COMMISSIONING construction process, inclu-
			 a. Makeup water for cooling towers where fl b. Makeup water for evaporative coolers group of the coolers of the coolers of the coolers of the coolers with energy is the coolers of the	eater than 6 gpm (0.04 L/s).	's).			planned, designed, installe ORGANIC WASTE. Food wa
			5.303.1.2 Excess Consumption A separate submeter or metering device shall be prov		or within an			and food soiled paper was TEST. A procedure to deter
			addition that is projected to consume more than 1,00 5.303.3 Water Conserving Plumbing Fixtures and Fitting	gs				SECTION 5.407 WATER RESISTANCE A
			Plumbing fixtures (water closets and urinals) and fitting following:	js (faucets and showerheads) shall comply	y with the			5.407.1 Weather Protection Provide a weather-resistan Section 1402.2 (Weather Pr
			5.303.3.1 Water Closets The effective flush volume of all water closets shall no closets shall be certified to the performance criteria o					more stringent. 5.407.2 Moisture Control
			Toilets. Note: The effective flush volume of dual flush toilets is two reduced flushes and one full flush.	defined as the composite, average flush v	olume of			Employ moisture control m 5.407.2.1 Sprinklers
			5.303.3.2 Urinals 5.303.3.2.1 Wall-Mounted Urinals					Design and maintain lands 5.407.2.2 Entries and Open
			The effective flush volume of wall-mounted urinals sho 5.303.3.2.2 Floor-Mounted Urinals					Design exterior entries and into buildings as follows:
			The effective flush volume floor-mounted or other urin 5.303.3.3 Showerheads 5.303.3.3.1 Single Showerhead	als shall not exceed 0.5 gallors per hosti.				5.407.2.2.1 Exterior Door Pro Primary exterior entries sha finishes within at least 2 fee
			Showerheads shall have a maximum flow rate of not i Showerheads shall be certified to the performance cr Showerheads.					 An installed awning at le The door is protected by The door is recessed at le Other methods which pr
			5.303.3.3.2 Multiple Showerheads Serving One Shower When a shower is served by more than one showerhe and/or other shower outlets controlled by a single val	ead, the combined flow rate of all the show				5.407.2.2.2 Flashing Install flashing integrated w
			the shower shall be designed to allow only one shower Note: A hand-held shower shall be considered a show	er outlet to be in operation at a time.	-			SECTION 5.408 CONSTRUCTION WAS
			5.303.3.4 Faucets and Fountains 5.303.3.4.1 Nonresidential Lavatory Faucets Lavatory faucets shall have a maximum flow rate of n	10t more than 0.5 gallons per minute at 60	psi.			Recycle and/or salvage fo waste in accordance with demolition waste manage
			5.303.3.4.2 Kitchen Faucets Kitchen faucets shall have a maximum flow rate of no faucets may temporarily increase the flow above the minute at 60 psi, and must default to a maximum flow	maximum rate, but not to exceed 2.2 gall				5.408.1.1 Construction Was Where a local jurisdiction c is more stringent, submit a
			5.303.3.4.3 Wash Fountains Wash fountains shall have a maximum flow rate of no (inches) at 60 psi].		space			 Identifies the construction recycling, reuse on the properties. Determines if construction bulk mixed (single stream). Identifies diversion facilities.
			5.303.3.4.4 Metering Faucets Metering faucets shall not deliver more than 0.20 gallo	ons per cycle.				4. Specifies that the amoun weight or volume, but not
			5.303.3.4.5 Metering Faucets for Wash Fountains Metering faucets for wash fountains shall have a maxi minute/20 [rim space (inches) at 60 psi]. Note: Where complying faucets are unavailable, aero	-				5.408.1.2 Waste Managem Utilize a waste manageme construction and demolitic Note: The owner or contra- material will be diverted by
			reduction. 5.303.3.4.6 Pre-Rinse Spray Value When installed, shall meet the requirements in the Ca Efficiency Regulations), Section 1605.1(h)(4) Table H-2 shall be equipped with an integral automatic shutoff. FOR REFERENCE ONLY: The following table and code s	, Section 1605.3(h)(4)(A), and Section 1607 rection have been reprinted from the Calif	7(d)(7), and fornia Code			Exceptions to Sections 5.40 1. Excavated soil and land 2. Alternate waste reduction facilities capable of comp 3. Demolition waste meeting markets.
			of Regulations, Title 20 (Appliance Efficiency Regulation TABLE H- STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES	2	5.3(h)(4)(A).			5.408.1.3 Waste Stream Red The combined weight of no
			PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)				building area may be dee agency.
			Product Class 1 (≤ 5.0 ozf) Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.00 1.20				5.408.1.4 Documentation Documentation shall be pr 5.408.1.1 through 5.408.1.3
			Product Class 3 (> 8.0 ozf) 5.303.4 Commercial Kitchen Equipment 5.303.4.1 Food Waste Disposers	1.28				accessible during construct Notes: 1. Sample forms found in "
			Disposers shall either modulate the user of water to no actively grinding food waste/no-load) or shall automo inactivity. Disposers shall use no more than 8 gpm of v	atically shut off after no more than 10 minu				located at https://www.dg Resources-List-Folder/CALC management plan.
			 Note: This code section does not affect local jurisdiction 5.303.5 Areas of Addition or Alteration 		installation.			2. Mixed construction and Resources Recycling and F
			For those occupancies within the authority of the Cali Section 103, the provisions of Section 5.303.3 and 5.30 alteration to the building.				-	5.408.2 Universal Waste [A] Additions and alterations to nonresidential additions ar
			5.303.6 Standards for Plumbing Fixtures and Fittings Plumbing fixtures and fittings shall be installed in acco	rdance with the California Plumbina Code	e, and shall			fluorescent lamps and ball Universal Waste materials o Universal Waste materials s
			meet the applicable standards referenced in Table 17 6 of this code.					Note: Refer to the Universa 5.408.3 Excavated Soil and 100% of trees, stumps, rock
			SECTION 5.304 OUTDOOR WATER USE 5.304.1 Outdoor Potable Water Use in Landscape Area	as				be reused or recycled. For developed.
_			Nonresidential developments shall comply with a loco California Department of Water Resources' Model Wo whichever is more stringent.	al water efficient landscape ordinance or t				Exception: Reuse, either or Notes: 1. If contamination by dise
			Notes: 1. The Model Water Efficient Landscape Ordinance (Regulations, Title 23, Chapter 2.7, Division 2.	MWELO) is located in the California Code	of			Commissioner and follow it 2. For a map of known pes Food and Agriculture. (ww
			 MWELO and supporting documents, including a work https://www.water.ca.gov/ 	ater budget calculator, are available at:	-		•	SECTION 5.410 BUILDING MAINTENA
			5.304.6 Outdoor Potable Water Use in Landscape Arec For public schools and community colleges, landscap 5.304.6.2 shall comply with the California Department	be projects as described in Sections 5.304.6			-	5.410.1 Recycling by Occu Provide readily accessible and collection of non-haze
			Ordinance (MWELO) commencing with Section 490 o Regulations, except that the evapotranspiration adjust water allowance for special landscape areas (SLA) of	of Chapter 2.7, Division 2, Title 23, California stment factor (ETAF) shall be 0.65 with an c	Code			cardboard, glass, plastics, ordinance, if more restrictiv Exception: Rural jurisdictior (2)(A) et seq. shall also be
			Exception: Any project with an aggregate landscape prescriptive measures contained in Appendix D of the	e area of 2,500 square feet or less may com	nply with the			5.410.1.1 Additions All additions conducted w
			5.304.6.1 Newly Constructed Landscapes New construction projects with an aggregate landsco	ape area equal to or greater than 500 squ	are feet.			30% or more in the floor are Exception: Additions within area.
			5.304.6.2 Rehabilitated Landscapes Rehabilitated landscape projects with an aggregate square feet.	landscape area equal to or greater than	1,200			5.410.1.2 Sample Ordinance Space allocation for recyc
			DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIE SECTION 5.401 GENERAL	INCY				Resources Code. Chapter (Act). Note: A sample ordinance
			5.401.1 Scope The provisions of this chapter shall outline the means o					CalRecycle's website.
			efficiency through protection of buildings from exteric of techniques to reduce pollution through recycling o adjusting.	or moisture, construction waste diversion, e	mployment	_		For new buildings 10,000 sq construction processes of t owner's or owner represent with this section by trained occupancies that are not r
								regulated by the Californic shall apply.

[IAL MANDATORY MEASURES, SHEET 2 (January 2023)

	y N/A RESPON PARTY	
ITIONS		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
g terms are defined in Chapter 2 (and are included here for reference).		requirements.
regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed damper.		Commissioning requirements shall include: 1. Owner's or Owner representative's project requirements.
o proportion flows within the distribution system, including sub-mains, branches and terminals, o design quantities.		 Basis of design. Commissioning measures shown in the construction documents. Commissioning plan. Functional performance testing.
OMMISSIONING. A systematic quality assurance process that spans the entire design and n process, including verifying and documenting that building systems and components are esigned, installed, tested, operated and maintained to meet the owner's project requirements.		 Documentation and training. Commissioning report. Exceptions:
/ASTE. Food waste, green waste, landscape and pruning waste, nonhazardous wood waste, piled paper waste that is mixed in with food waste.		 Unconditioned warehouses of any size. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
edure to determine quantitative performance of a system or equipment.		 Tenant improvements less than 10,000 square feet as described in Section 303.1.1. Open parking garages of any size, or open parking garage areas, of any size, within a structure.
R RESISTANCE AND MOISTURE MANAGEMENT		Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and/or air conditioning.
Ither Protection eather-resistant exterior wall and foundation envelope as required by California Building Code 2.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is ent.		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 systems.
sture Control sture control measures by the following methods.		 Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.
rinklers maintain landscape irrigation systems to prevent spray on structures.		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
tries and Openings rior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion gs as follows:		 the design phase of the project begins. This documentation shall include the following: 1. Environmental and sustainability goals. 2. Building sustainable goals. 3. Indoor environment quality requirements. 4. Project program, including facility functions and hours of operation, and need for after hours operation. 5. Equipment and systems expectations.
erior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall in at least 2 feet around and perpendicular to such openings plus at least one of the following: ed awning at least 4 feet in depth. is protected by a roof overhang at least 4 feet in depth.		 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 meet the OPR shall be completed at the
is recessed at least 4 feet. thods which provide equivalent protection.		A written explanation of now the design of the building systems meet 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.
ilashing ng integrated with a drainage plane.		 Water reuse systems. 5.410.2.3 Commissioning Plan [N]
TRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING		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:
struction Waste Management d/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition cordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and waste management ordinance, whichever is more stringent.		 General project information. Commissioning goals. Systems to be commissioned. Plans to test systems and components shall include: a. An explanation of the original design intent. b. Equipment and systems to be tested, including the extent of tests.
cal jurisdiction Waste Management Plan cal jurisdiction does not have a construction and demolition waste management ordinance that gent, submit a construction waste management plan that:		c. Functions to be tested.d. Conditions under which the test shall be performed.
the construction and demolition waste materials to be diverted from disposal by efficient usage, euse on the project or salvage for future use or sale. es if construction and demolition waste materials will be sorted on-site (source-separated) or		 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.
(single stream). diversion facilities where construction and demolition waste material collected will be taken. that the amount of construction and demolition waste materials diverted shall be calculated by plume, but not by both.		5.410.2.4 Functional Performance Testing [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building
aste Management Company the management company that can provide verifiable documentation that the percentage of and demolition waste material diverted from the landfill complies with this section. wher or contractor shall make the determination if the construction and demolition waste be diverted by a waste management company.		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) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related
to Sections 5.408.1.1 and 5.408.1.2: d soil and land-clearing debris.		regulations.
waste reduction methods developed by working with local agencies if diversion or recycle pable of compliance with this item do not exist. n waste meeting local ordinance or calculated in consideration of local recycling facilities and		 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: Site information, including facility description, history and current requirements. Site contact information. Basic operations and maintenance, including general site operating procedures, basic troubleshooting,
aste Stream Reduction Alternative ed weight of new construction disposal that does not exceed two pounds per square foot of a may be deemed to meet the 65% minimum requirement as approved by the enforcing		 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.
cumentation ation shall be provided to the enforcing agency which demonstrates compliance with Section		7. Other resources and documentation, if applicable.5.410.2.5.2 Systems Operations Training [N]
ough 5.408.1.3. The waste management plan shall be updated as necessary and shall be during construction for examination by the enforcing agency. orms found in "A Guide to the California Green Building Standards Code (Nonresidential)" https://www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-		A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following: 1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
ist-Folder/CALGreen may be used to assist in documenting compliance with the waste ent plan. Instruction and demolition debris processors can be located at the California Department of		 Review and demonstration of servicing/preventive maintenance. Review of the information in the Systems Manual. Review of the record drawings on the system/equipment.
ersal Waste [A]		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.
nd alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for ial additions and alterations, shall require verification that Universal Waste items such as lamps and ballast and mercury containing thermostats as well as other California prohibited aste materials are disposed of properly and are diverted from landfills. A list of prohibited aste materials shall be included in the construction documents.		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.
to the Universal Waste Rule link at https://dtsc.ca.gov/universalwaste/		5.410.4.2 (Reserved)
es, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall or recycled. For a phased project, such material may be stockpiled on site until the storage site is		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
Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.		systems. 5.410.4.2 Systems
ier and follow its direction for recycling or disposal of the material. o of known pest and/or disease quarantine zones, consult with the California Department of griculture. (www.cdfa.ca.gov)		 Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project: 1. Renewable energy systems. 2. Landscape irrigation systems.
ycling by Occupants		 Water reuse systems. 5.410.4.3 Procedures
dily accessible areas that serve the entire building and are identified for the depositing, storage ion of non-hazardous materials for recycling, including (at a minimum) paper, corrugated glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling if more restrictive.		Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.
Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82(a) g. shall also be exempt from the organic waste portion of this section.		5.410.4.3.1 HVAC Balancing In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau
Iditions s conducted within a 12-month period under single or multiple permits, resulting in an increase of e in the floor area, shall provide recycling areas on site. Additions within a tenant space resulting in less than a 30% increase in the tenant space floor		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.
mple Ordinance cation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991		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

ce for use by local agencies may be found in Appendix A of the document at the

[N] New buildings 10,000 square feet and over

square feet and over, building commissioning shall be included in the design and f the building project to verify that the building systems and components meet the entative's project requirements. Commissioning shall be performed in accordance ed personnel with experience on projects of comparable size and complexity. For Iot regulated by OSHPD or for I-occupancies and L-occupancies that are not nia Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 5.410.4.5.1 Inspections and Reports Include a copy of all inspection verifications and reports required by the enforcing agency.

requirements in CCR, Title 8, Section 5142, and other related regulations.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED ON AN INDIVIDUAL REPONSIBILITY ASSOCIATED WITH THE CALIFORNIA GREEN BUILDING VERIFICATION WITH THE FULL CODE.

A RESPON PARTY	DIVISION 5.5 ENVIRONMENTAL EQUALITY
	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 well-being of a building's installers, occupants and neighbors.
	SECTION 5.502 DEFINITIONS
	5.502.1 Definitions The following terms are defined in Chapter 2 (and are included here for reference).
	ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.
	A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.
	1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32° Fahrenheit.
	COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 dB adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.
	COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code Regulations (CCR), Title 17, Section 93120.1(a). Note: See CCR, Title 17, Section 93120.1.
	DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a
	24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10pm to 7am).
	DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.
	ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the California Electrical Code, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.
	ELECTRIC VEHICLE CHARGING STATION(S) (EVCSj). One or more spaces intended for charging electric vehicles.
	ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.
	ENERGY EQUIVALENT (NOISE) LEVEL (L eq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time period of interest.
	 EXPRESSWAY. An aerial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections. FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.
	GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.
	GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). The 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.
	HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds with a GWP value equal to or greater than 150, or (b) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, Section 82.3 (as amended March 10, 2009).
	LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.
	LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (a) has a GWP value less than 150, and (b) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, Section 82.3 (as amended March 10, 2009).
	MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g Ø/g ROC).
	MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2-1999. PROUCT-WEIGHTED MIR (PWMIR) The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).
	PSIG. Pounds per square inch, gauge. REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute
	to ozone formation in the troposphere. SCHRADER ACCESS VALUES. Access fittings with a value core installed.
	SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.
	SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.
	VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17,
	Section 94508(a). Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.
	SECTION 5.503 FIREPLACES 5.503.1 Fireplaces
	Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.
	5.503.1.1 Woodstoves Woodstoves and pellet stoves shall comply with US EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.
	SECTION 5.504 POLLUTANT CONTROL
	5.504.1 Temporary Ventilation The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to 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 and until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

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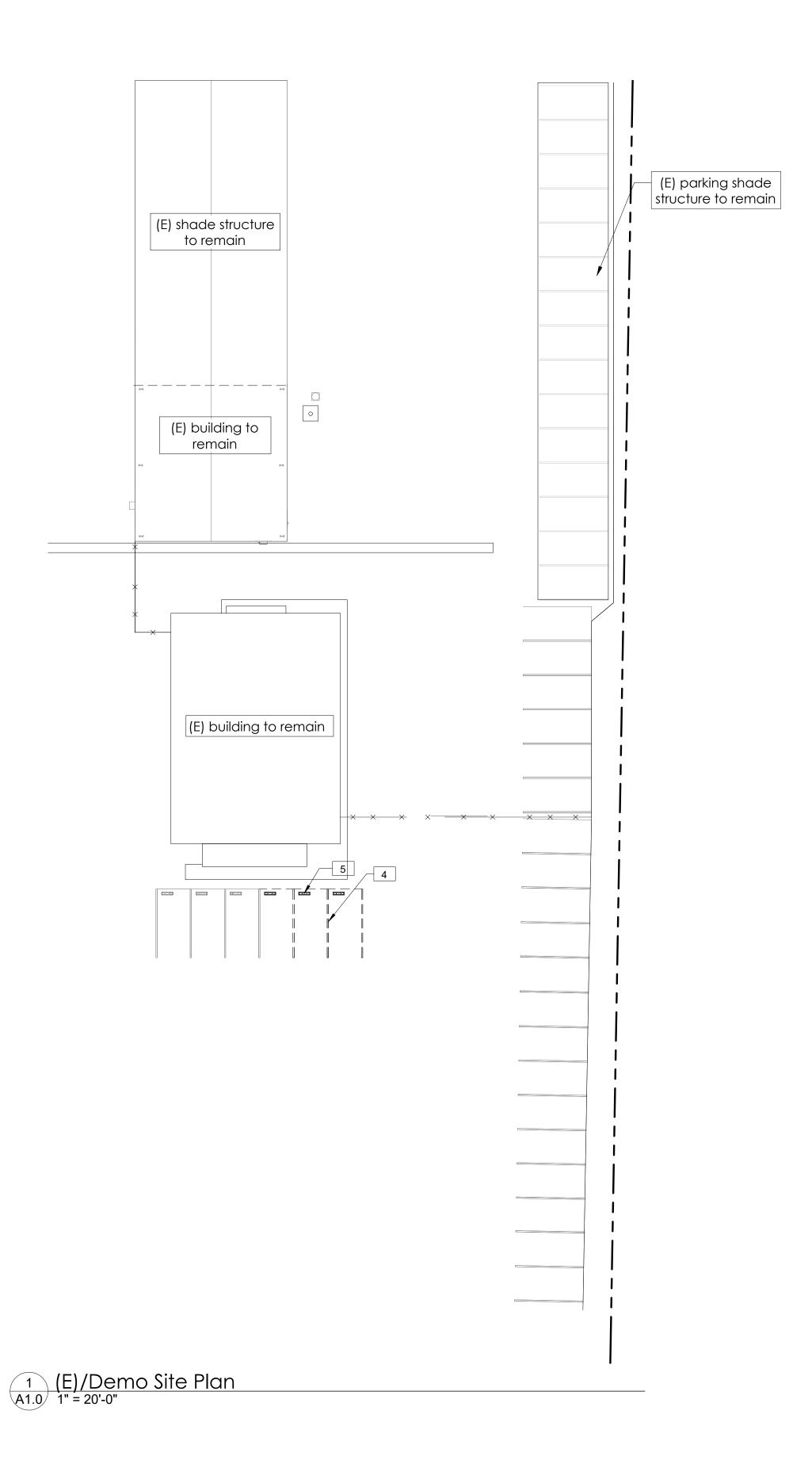
2022 CALIFORNIA GREEN BUILDING STANDARDS NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

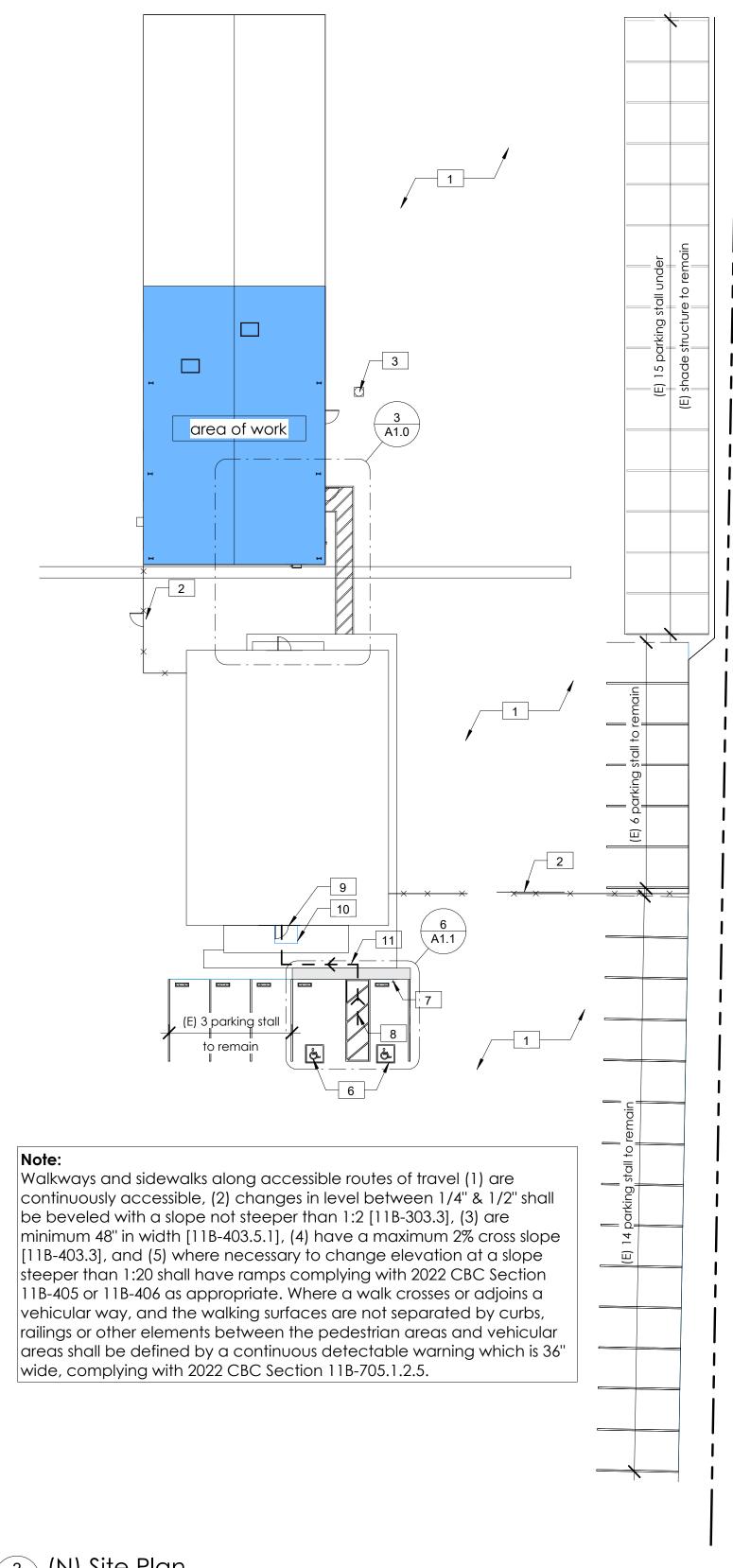
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Y N/A RESPON. PARTY	5.504.4 Finish Material Pollutant Control	Y N/A RESPON. PARTY	TABLE 5.504.4.3 VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS ^{2,3} Grams	of VOC per Liter of Coating, Less Water	Y N/A RESPON. PARTY	5.504.4.7.1 Verification of Compliance
	Finish materials shall comply with Section 5.504.4.1 through	gh 5.504.4.6.	and Less Exempt Compounds COATING CATEGORY	CURRENT VOC LIMIT		Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.
	5.504.4.1 Adhesives, Sealants and Caulks Adhesives, sealants, and caulks used on the project sha	III meet the requirements of the following standards:	Flat coatings			5.504.4.8 Acoustical Ceiling and Wall Panels
	 Adhesives, adhesive bonding primers, adhesive prime comply with local or regional air pollution control or air of 	ers, sealants, sealant primers and caulks shall	Nonflat coatings	100		Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental
	or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.5 comply with the Rule 1168 prohibition on the use of cert	04.4.1 and 5.504.4.2. Such products also shall	Nonflat-high glass coatings	150		Chambers", Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs.
	dichloride, methylene chloride, perchloroethylene and specified in subsection 2, below.		SPECIALTY COATINGS			5.504.4.8.1 Verification of Compliance
	Aerosol adhesives, and smaller unit sizes of adhesives product, less packaging, which do not weight more that	in one pound and do not consist of more than 16	Aluminum roof coatings	400		Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.
	fluid ounces) shall comply with statewide VOC standard use of certain toxic compounds, of California Code of R		Basement specialty coatings Bituminous roof coatings			5.504.5.3 Filters In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration
	TABLE 5.504.4.1 ADHESIVE VOC LIMIT ^{1,2} Less Water and Les	ss Exempt Compounds in Grams per Liter	Bituminous roof primers	350		media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of
	ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT	Bond breakers	350		the same value shall be included in the operation and maintenance manual. Exception: Existing mechanical equipment.
	Indoor carpet adhesives	50	Concrete curing compounds	350		5.504.5.3.1 Labeling Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.
	Carpet pad adhesives	50	Concrete/masonry sealers	100		5.504.7 Environmental Tobacco Smoke (ETS) Control
	Outdoor carpet adhesives	150	Driveway sealers Dry fog coatings	50		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
	Wood flooring adhesives Rubber floor adhesives	60	Faux finishing coatings	350		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
	Subfloor adhesives	50	Fire resistive coatings	350		California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.
	Ceramic tile adhesives	65	Floor coatings	100	s	ECTION 5.505 INDOOR MOISTURE CONTROL
	VCT & asphalt tile adhesives	50	Form-release compounds	250		5.505.1 Indoor Moisture Control Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202
	Drywall and panel adhesives	50	Graphic arts coatings (sign paints)	500		(Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.
	Cove base adhesives Multipurpose construction adhesives	70	High temperature coatings	250	S	ECTION 5.506 INDOOR AIR QUALITY 5.506.1 Outside Air Delivery
	Structural glazing adhesives	100	Low solids coatings ¹	120		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,
	Single-ply roof membrane adhesives	250	Magnesite cement coatings	450		whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.
	Other adhesives not specifically listed	50	Mastic texture coatings	100		5.506.2 Carbon Dioxide (CO₂) Monitoring For buildings or additions equipped with demand control ventilation, CQ sensors and ventilation controls
	SPECIALTY APPLICATIONS		Metallic pigmented coatings	500		shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).
	PVC welding	510	Multicolor coatings	250		5.506.3 Carbon Dioxide (CO2) Monitoring in Classrooms. (DSA-SS)
	CPVC welding ABS welding	<u> 490 </u>	Pretreatment wash primers Primers, sealers, and undercoaters	100		Each public K-12 school classroom, as listed in Table 120.1-A of the California Energy Code, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:
	Plastic cement welding	250	Reactive penetrating sealers	350		1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows
	Adhesive primer for plastic	550	Recycled coatings	250		door and operable windows. 2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS,
	Contact adhesive	80	Roof coatings	50		the carbon dioxide readings shall be available to and regularly monitored by facility personnel. 3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide
	Special purpose contact adhesive	250	Rust preventative coatings	250		levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom
	Structural wood member adhesive	140	Shellacs			have exceeded 1,100ppm. 4. The monitor or sensor shall measure carbon dioxide levels at minimum 15-minute intervals and shall
	Top & trim adhesive SUBSTRATE SPECIFIC APPLICATIONS	250	Clear Opaque	550		maintain a record of previous carbon dioxide measurements of not less than 30 days duration. 5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon
	Metal to metal	30	Specialty primers, sealers and undercoaters	100		dioxide levels with a range of 400ppm to 2000ppm or greater. 6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm
	Plastic foams	50	Stains	250		carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.
	Porous material (except wood)	50	Stone consolidants	450	s	ECTION 5.507 ENVIRONMENTAL COMFORT
	Wood	30	Swimming pool coatings	340		5.507.4 Acoustical Control Employ building assemblies and components with Sound Transmission Class (STC) values determined in
	Fiberglass 1. If an adhesive is used to bond dissimilar substrates tog	80	Traffic marking coatings	420		accordance with ASTM E 90 and ASTM E 413, 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
	shall be allowed.2. For additional information regarding methods to med		Tub and tile refinish coatings Waterproofing membranes	250		5.507.4.2. Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior
	South Coast Air Quality Management District Rule 1168: http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF		Wood coatings	275		noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.
	TABLE 5.504.4.2 SEALANT VOC LIMIT Less Water and Less	s Exempt Compounds in Grams per Liter	Wood preservatives	350		Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.
	SEALANTS		Zinc-rich primers	340		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
	Architectural	250	 Grams of VOC per liter of coating, including water and exem The specified limits remain in effect unless revised limits are list 			or altered envelope shall meet a composite STC rating of at least 50 or 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:
	Marine deck	760	 Values in this table are derived from those specified by the C Coatings Suggested Control Measure, February 1, 2008. More in 			 Within the 65 CNEL noise contour of an airport. Exceptions:
	Nonmembrane roof	250	Board.			a. L _{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
	Roadway Single-ply roof membrane	450	5.504.4.4.2 Carpet Adhesive All carpet adhesive shall meet the requirements of Table 5.504.4	.1.		b. L _{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.
	Other	420	5.504.4.5 Composite Wood Products	and a second file of a state of a		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.
	SEALANT PRIMERS		Hardwood plywood, particleboard and medium density fiberbo interior or exterior of the buildings shall meet the requirements fo Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93	r formaldehyde as specified in ARB's Air		5.507.4.1.1 Noise Exposure Where Noise Contours Are Not Readily Available
	Architectural		under the ATCM must meet the specified emission limits, as show	.,		Buildings exposed to a noise level of 65 dB L _{eq} -1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a
	Nonporous	250	5.504.4.5.3 Documentation Verification of compliance with this section shall be provided as	requested by the enforcing agency		composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).
	Porous Modified bituminous	500	Documentation shall include at least one of the following: 1. Product certifications and specifications.	requested by the entorening agency.		5.507.4.2 Performance Method For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed
	Marine deck	760	 Chain of custody certifications. Product labeled and invoiced as meeting the Composite Wo 	od Products regulation (see CCR. Title 17.		to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributed to exterior sources that does not exceed an hourly
	Other	750	Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 st			equivalent noise level (L _{eq} -1Hr) of 50 dBA in occupied areas during any hour of operation.
	Note: For additional information regarding methods to n see South Coast Air Quality Management District Rule 1		Association, the Australian AS/NZS 2269 or European 636 3S stand 5. Other methods acceptable to the enforcing agency.			5.507.4.2.1 Site reatures Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.
	5.504.4.3 Paints and Coatings		TABLE 5.504.4.5 FORMALDEHYDE LIMITS ¹ Maximum Formaldehyde E	nissions in Parts per Million		5.507.4.2.2 Documentation of Compliance
	Architectural paints and coatings shall comply with VOC Suggested Control Measure, as shown in Table 5.504.4.3		PRODUCT	CURRENT LIMIT		An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.
	content limit for coatings that do not meet the definitior 5.504.4.3 shall be determined by classifying the coating	as a Flat, Nonflat or Nonflat-High Gloss coating,	Hardwood plywood veneer core	0.05		5.507.4.3 Interior Sound Transmission
	based on its gloss, as defined in Subsections 4.21, 4.36 a Suggested Control Measure, and the corresponding Fla		Hardwood plywood composite core	0.05		Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.
	5.504.4.3 shall apply.		Particleboard	0.09		Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.
	5.504.4.3.1 Aerosol Paints and Coatings Aerosol paints and coatings shall meet the PWMIR Limits		Medium density fiberboard Thin medium density fiberboard ²	0.13	□ ■ s	ECTION 5.508 OUTDOOR AIR QUALITY
	requirements, including prohibitions on use of certain to: Section 94522(c)(2) and (d)(2) of California Code of Reg	gulations, Title 17, commencing with Section 94520;	1. Values in this table are derived from those specified by the C			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
	and in areas under the jurisdiction of the Bay Area Air Q the percent VOC by weight of product limits of Regulati		Control Measure for Composite Wood as tested in accordance see California Code of Regulations, Title 17, Sections 93120 throu 2. Thin medium density fiberboard has a maximum thickness of	gh 93120.12.	n,	5.508.1.2.
	5.504.4.3.2 Verification of compliance with this section sl			of to incrites (o mini).		5.508.1.1 Chlorofluorocarbons (CFCs) Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.
	agency. Documentation may include, but is not limited 1. Manufacturer's product specification 2. Field verification of on-site product containers		5.04.4.6 Resilient Flooring Systems Where resilient flooring is installed, at least 80 percent of floor are requirements of the California Department of Public Health, "Sta	ea receiving resilient flooring shall meet the ndard Method for the Testing and		5.508.1.2 Halons
	 Field Verification of on-site product containers 5.504.4.4 Carpet Systems 		Evaluation of Volatile Organic Chemical Emissions from Indoor S Version 1.2, January 2017 (Emission testing method for California	ources Using Environmental Chambers,"		Install HVAC, refrigeration and fire suppression equipment that do not contain Halons. 5.508.2 Supermarket Refrigerant Leak Reduction
	All carpet installed in the building interior shall meet the Health, "Standard Method for the Testing and Evaluation		See California Department of Public Health's website for certification			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
	Sources Using Environmental Chambers," Version 1.2, Ja Specification 01350).		https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAC			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
	See California Department of Public Health's website for	r certification proarams and testing labs:	5.504.4.6.1 Verification of Compliance Documentation shall be provided verifying that resilient flooring	materials meet the pollutant emission limite	S.	with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.
	https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/		5.504.4.7 Thermal Insulation			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 nonzone-depleting
	5.504.4.1 Carpet Cushion All carpet cushion installed in the building interior shall m	neet the requirements of the California Department	Comply with the requirements of the California Department of P and Evaluation of Volatile Organic Chemical Emissions from Inde	oor Sources Using Environmental		refrigerants that include ammonia, carbon dioxide (CQ), and potentially other refrigerants.
	of Public Health,"Standard Method for the Testing and E from Indoor Sources Using Environmental Chambers,"Ve	valuation of Volatile Organic Chemical Emissions	Chambers", Version 1.2, January 1.2, January 2017 (Emission testi 01350).	ng method for California Specification		5.508.2.1 Refrigerant Piping Piping compliant with the California Mechanical Code shall be installed to be accessible for leak
	California Specifications 01350).		See California Department of Public Health's website for certifice			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
	See California Department of Public Health's website for https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/		https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IA0	rages/voc.aspx#material		except as noted below.
		LATE AREAS OF COMIFLIANCE WITH THE ZUTY CALIFORNIA GREEN BUILD	IN THE VARIABLES BEIWEEN BUIL		ILCINED IN IO BE USEL) ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIAT

S disclaimer: This document is provided and intended to be used as a means to indicate areas of compliance with the 2019 california green building tended by the end user assumes all responsibility associated with the use of this document, including verification with the full code.

	Y = YES N/A = NOT APPLICABLE RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR, ETC.)	
Y	N/A RESPON. PARTY	
on	5.508.2.1.1 Threaded Pipe Threaded connections are permitted at the compressor rack.	
ne	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.) e
tal	5.508.2.1.3 Anchorage One-fourth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.	4
n limits.	5.508.2.1.3 Flared Tubing Connections Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.	
n	Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.	
of 13. ers of	5.508.2.1.4 Elbows Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.	23 < □
	 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 	
tdoor	vessel and the inlet of the pressure relief valve. 5.508.2.2.1.1 Pressure Detection	0 S(Santa esto,
of ost	A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.	Sa este
	5.508.2.2.2 Access Valves Only Schrader access valves with a brass or steel body are permitted for use.	2000 2000 : Mode
s 1202 9.	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.	Ž 7 N
on	5.508.2.2.2 Seal Caps If designed for it, the cap shall have a neoprene O-ring in place.	
	5.508.2.2.2.1 Chain Tethers Chain tethers to fit over the stem are required for valves designed to have seal caps. Exception: Valves with seal caps that are not removed from the valve during stem operation.	Drawn By CM checker DEW
trols Section	5.508.2.3 Refrigerated Service Cases Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils	Job # 85380
	of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.	Scale Noted Revision Schedule
	5.508.2.3.1 Coil Coating Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.	#DateDescriptionA4/12/04BID SET
om nonitor	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 receiver.	
MCS,	5.508.2.5 Pressure Testing The system shall be pressure tested during installation prior to evacuation and charging.	
tion to ssroom	5.508.2.5.1 Minimum Pressure The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system	
arbon	pressure up to 300 psig minimum.	
opm	Check the system for leaks, repair any leaks, and retest for pressure using the same gauge. 5.508.2.5.3 Allowable Pressure Change	
	The system shall stand, unaltered, for 24 hours with no more than a ± 1 lb pressure change from 300 psig, measured with the same gauge.	
in rmined	5.508.2.6 Evacuation The system shall be evacuated after pressure testing and prior to charging.	
7.4.1 or	5.508.2.6.1 First Vacuum Pull a system vacuum down to at least 1,000 microns (± 50 microns), and hold for 30 minutes.	
all	5.508.2.6.2 Second Vacuum Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.	
	5.508.2.6.3 Third Vacuum Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.	
elope ess	CHAPTER 7 INSTALLER AND SPECIAL INSPECTOR QUALIFICATIONS SECTION 702 QUALIFICATIONS	
ble	702.1 Installer Training HVAC system installers shall be trained and certified in the proper installation of HVAC systems including	
ped	ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of	
ed-	acceptable HVAC training and certification programs include but are not limited to the following: 1. State certified apprenticeship programs. 2. Public utility training programs.	A
,	 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations. 	
C 30).	5. Other programs acceptable to the enforcing agency. 702.2 Special Inspection [HCD]	
posed ucted	When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the	ASS
,	enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special	
dition	inspector: 1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building	
	performance contractors, and home energy auditors. 3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.	2422 N El Derede Ot
1	Notes: 1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.	2132 N El Dorado St Stockton, CA 95204 (209) 227-7646
oise	2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).	
	[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the	SED ASS 5 MATCH
1 and	satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the	C 76963
	primary job function, as determined by the local agency. Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.	CIVIL - ONIR
	SECTION 703 VERIFICATIONS	THE OF CALIFORN
n retail ses, or	703.1 Documentation Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods	These drawings and specifications are the property and copyright of JCWagner & Associates and shall not be used or
rants ent of	acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified in the application checklist.	duplicated in part or in whole on any other work except by agreement with JCWagner & Associates.
a		
		CALGreen 3

A0.3



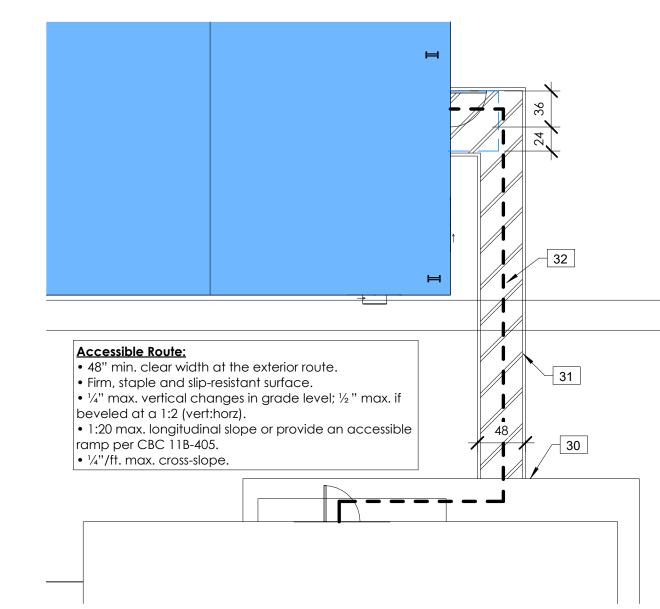


2 (N) Site Plan A1.0 1" = 20'-0"

Note:

Parking Stall Count	
Stanislaus County Municipal Code: Building gross area:	16.64.040 1 stall per 300 SF
Total Parking Required:	40 Stalls
CBC: 11B-208.2 & 11B-208.2.4 Total Accessible Parking Stalls Required: Van Accessible Car Accessible	2 1 1

	Demo Keynotes
Key Value	Keynote Text
1	(E) asphalt area to remain
2	(E) fence to remain
3	(E) well to remain
4	(E) parking to be modify
5	(E) wheel stopper to be removed
6	(N) accessible parking stall and landing
7	(N) accessible parking sign
8	path of travel must be less than 5% in the direction of travel and less than 2% cross slope
9	(E) main entrance
10	maintain 48" clear
11	(N) accessible route
30	(E) sidewalk and asphalt are flushed
31	stripe within the blue border, hatched lines that are a max. of 36" O.C. are painted with a color that contrasts with the parking surface, preferably blue or white
32	(N) accessible path of travel, path of travel must be less than 5% in the direction of travel and less than 2% cross slope



3 Enlarged Accessible Path A1.0 1/8" = 1'-0"

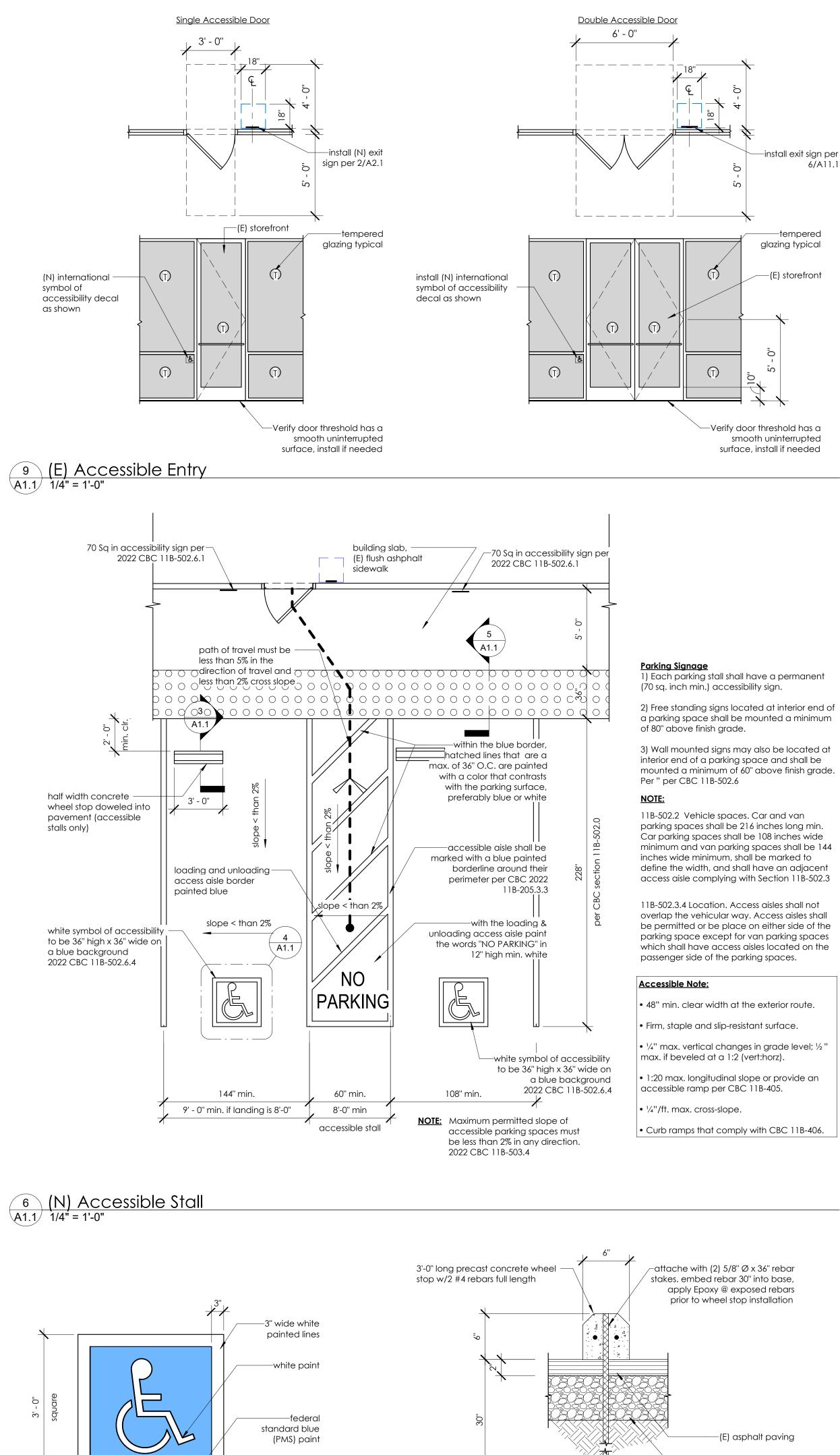
2000 Santa Fe Ave	2000 Santa Fe Ave Modesto, CA 95357	
rawn By hecker ob # cale	CM DEW 85380 Noted	
	sion Schedule Description BID SET	
	& ASSOCIATES	
Stock	N El Dorado St ton, CA 95204 227-7646	

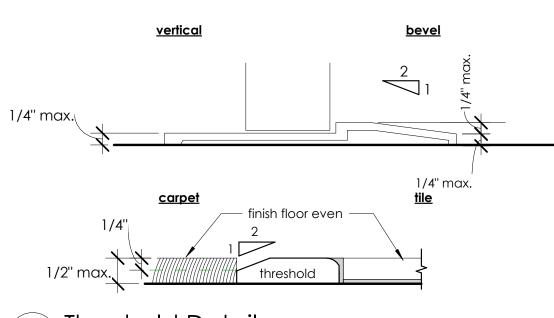


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Site Plan





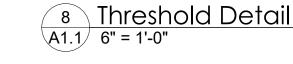


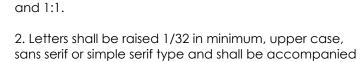
10000

2.3"-2.4"

CBC Figure 11B-705.1/

5 Detectable Warning Details (11B-705.0) A1.1 1" = 1'-0"





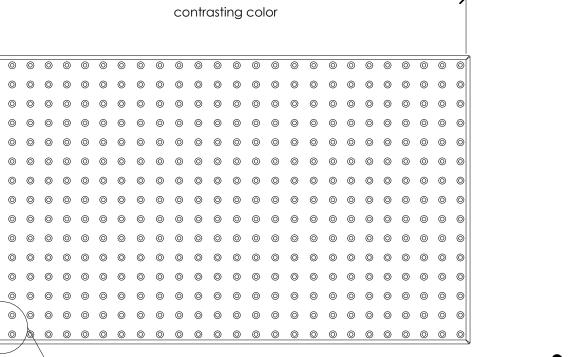
<u>Signage Requirements:</u>

with Grade 2 Braille. 3. The characters and background shall be eggshell,

shall contrast with their background. 4. Signs shall be installed on the wall adjacent to the latch side of the door. Where there is no space on the latch side of the door, signs shall be placed on the nearest adjacent wall. Mounting height shall be 60 in above the finish floor to the centerline of the sign.

Mounting location for signage shall be so that a person may approach within 3 in of signage without encountering protruding objects or standing within the swing of the door.

7 Accessible Entry Signage A1.1 3" = 1'-0"



0.45"-0.47"

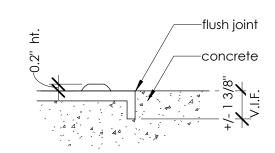
++

top dia.

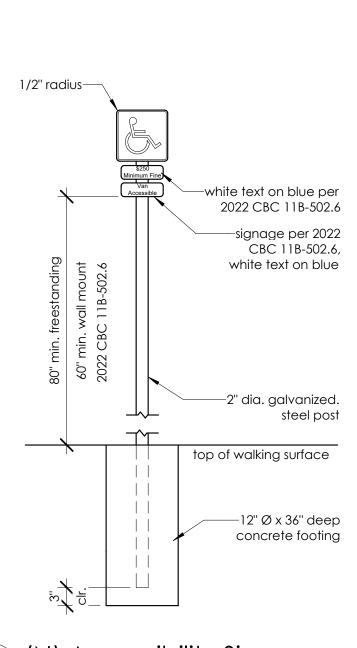
0.9"-0.92" _____

base dia.

Surface Applied Section



-(E) aggregate base



Parking Space Sign

Typical Plan View

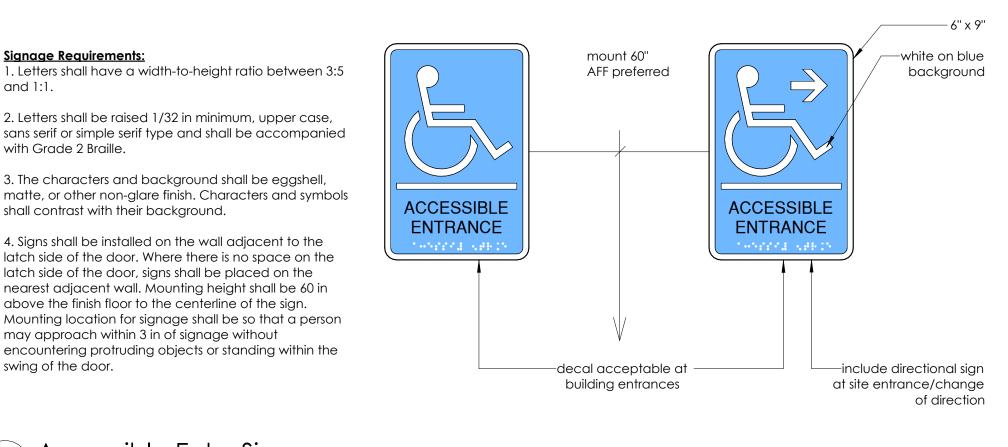
extent of flush transition to vehicular way

contrasting color

Consisting of the International Symbol of Accessibility in white on a blue background not smaller than 70 square inches in area and when in the path of travel, shall be posted at a minimum height of 80 inches from the bottom of the sign to the parking space finish -white text on blue per grade. Signs may also be centered on the wall at the interior end of the parking space. An additional sign or language below the Symbol of Accessibility shall CBC 11B-502.6, state "Minimum Fine \$250". Spaces complying with 2022 CBC 11B-502.6 shall have additional sign stating "Van Accessible" mounted below the Symbol of Accessibility. Signs identifying accessible parking spaces shall be located so they cannot be obscured by a vehicle parked in the space.

(N) Accessibility Sign





Notes: (CBC 11B-705) 1. Detectable warnings shall consist of a

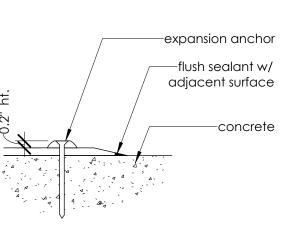
surface of truncated domes. 2. Detectable warning surfaces shall be yellow and approximate 33538 of SAE AMSSTD-595A.

3. Truncated domes in a detectable warning surface shall be centered on a

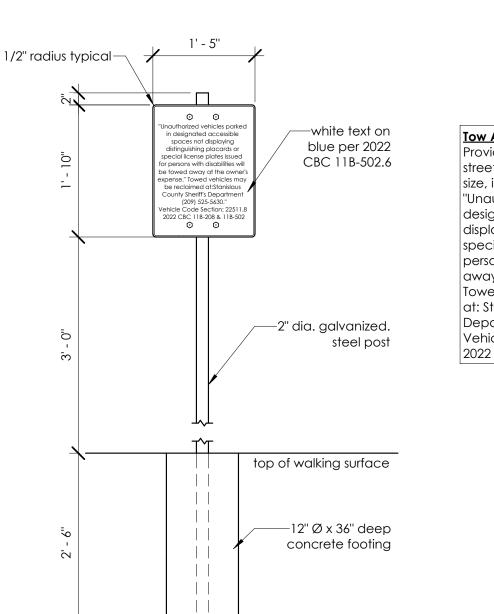
square grid. 4. Detectable warnings at curb ramps shall extend 36" in the direction of travel and the full width of the ramp run less 2" max. on each side, excluding any flared sides. 5. Detectable warnings shall be located so the edge nearest the curb is 6" min. and 8" max. from the demarcation line at the face of the curb between the curb and the gutter, street, or highway.

6. The raised truncated dome panels shall be concrete, ADA Solution, Inc. Telephone No. 1-800-372-0519. Approved equal or better.

7. All truncated dome dimensions herein are nominal.



Cast-in-Place Section



<u>Tow Away Sign</u>

Provide one sign at entrance of offstreet parking, not less than 17" x 22" size, in 1" high letters, that states: "Unauthorized vehicles parked in designated accessible spaces not displaying distinguishing placards or special license plates issued for persons with disabilities will be towed away at the owner's expense." Towed vehicles may be reclaimed at: Stanislaus County Sheriff's Department (209) 525-5630." Vehicle Code Section: 22511.8 2022 CBC 11B-208 & 11B-502

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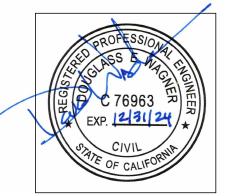
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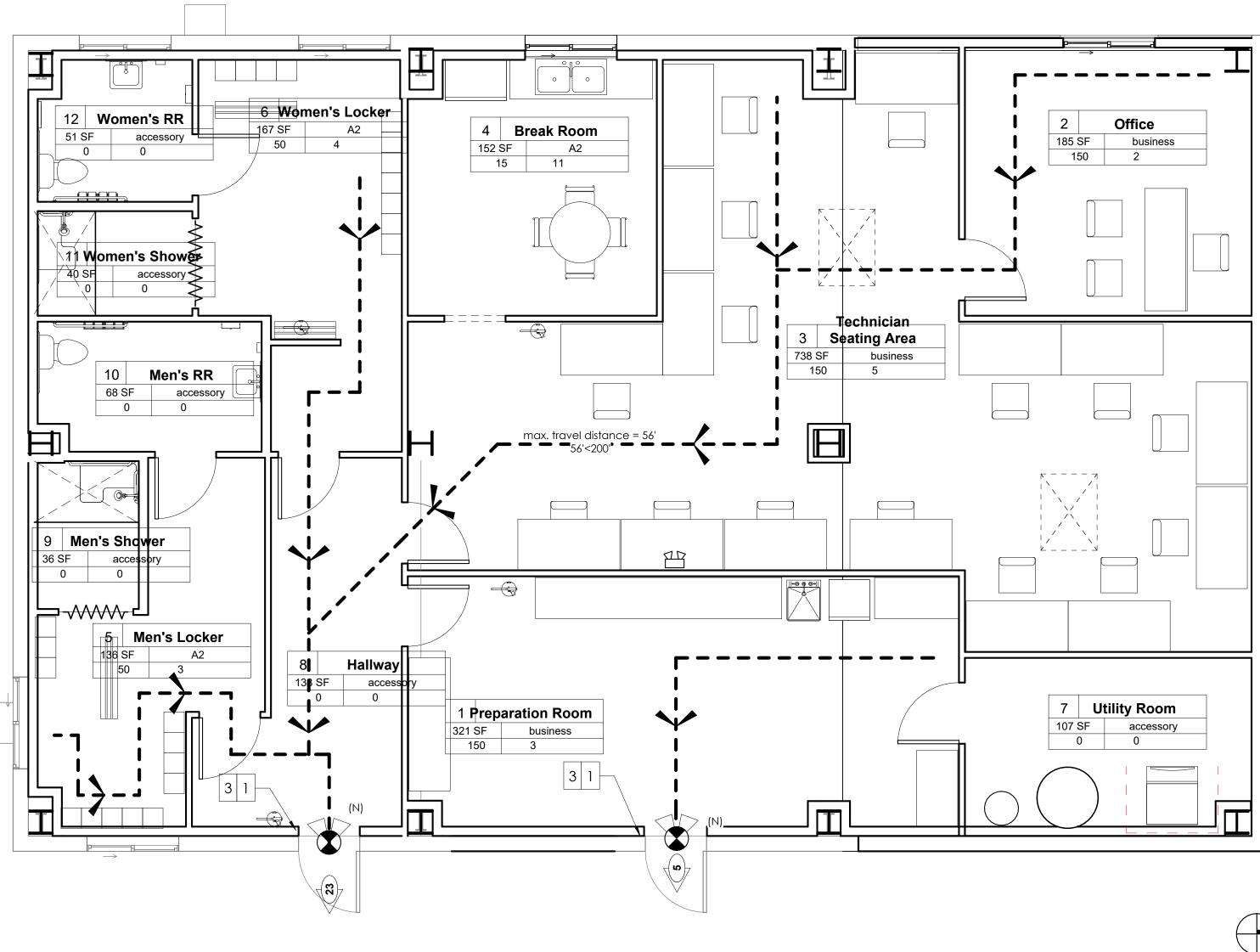
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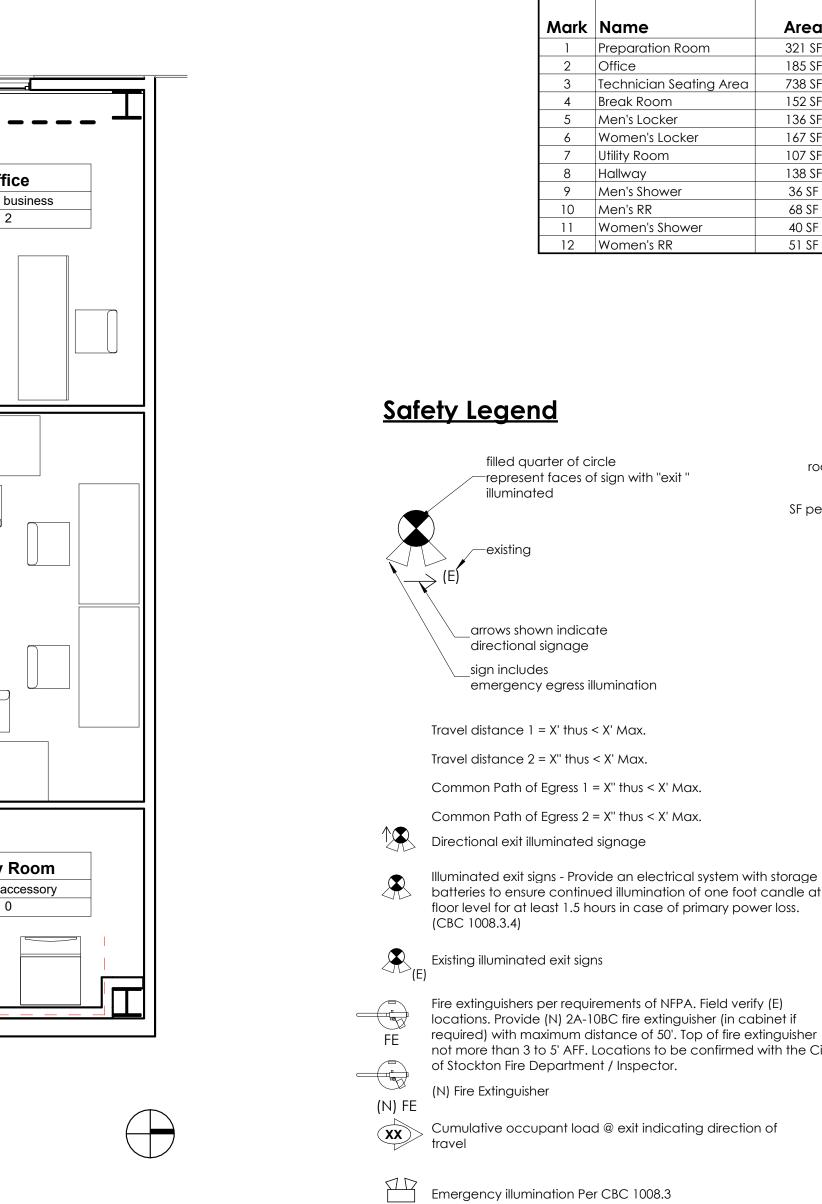
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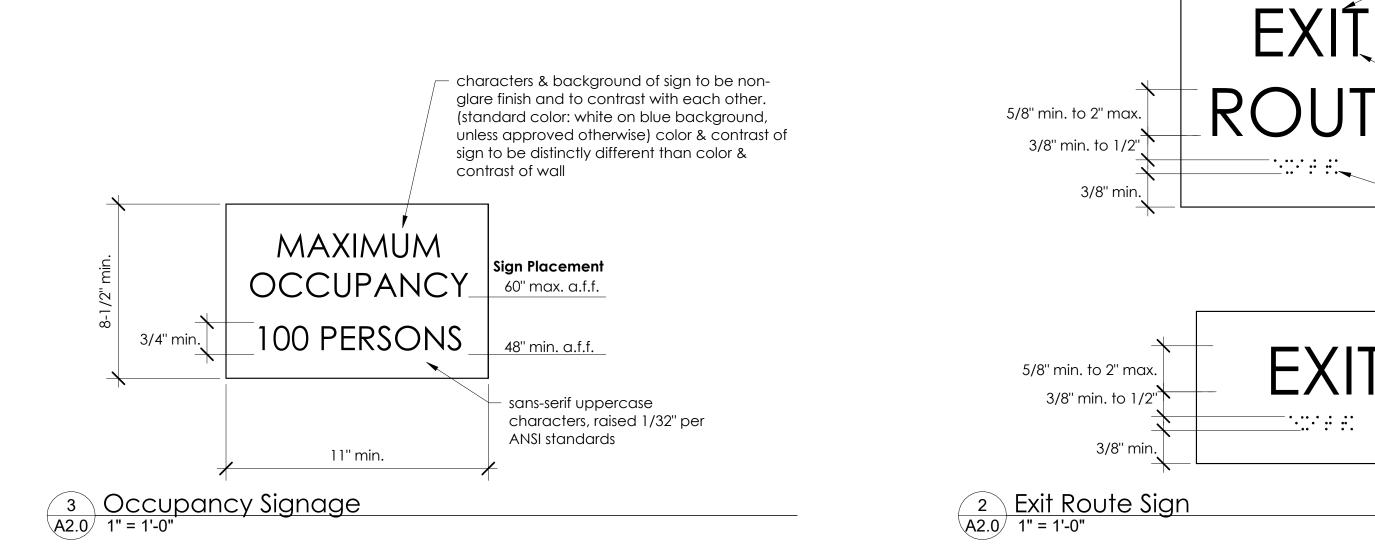
Site Details





1 Life Safety Plan A2.0 1/4" = 1'-0"





Mark	Name	Area	Occupancy Type	Load Factor	Occupancy Load
1	Preparation Room	321 SF	business	150 SF	3
2	Office	185 SF	business	150 SF	2
3	Technician Seating Area	738 SF	business	150 SF	5
4	Break Room	152 SF	A2	15 SF	11
5	Men's Locker	136 SF	A2	50 SF	3
6	Women's Locker	167 SF	A2	50 SF	4
7	Utility Room	107 SF	accessory	0 SF	0
8	Hallway	138 SF	accessory	0 SF	0
9	Men's Shower	36 SF	accessory	0 SF	0
10	Men's RR	68 SF	accessory	0 SF	0
11	Women's Shower	40 SF	accessory	0 SF	0
12	Women's RR	51 SF	accessory	0 SF	0
				Total	28

					-	
1	room number 🗕 🗕	101	C	Office	-	-room name/use
	room area 🗕 🗕	100	SF	В	-	-room occupancy
	SF per occupant — 🗕	10	0	1		—occupant load

batteries to ensure continued illumination of one foot candle at floor level for at least 1.5 hours in case of primary power loss.

locations. Provide (N) 2A-10BC fire extinguisher (in cabinet if required) with maximum distance of 50'. Top of fire extinguisher not more than 3 to 5' AFF. Locations to be confirmed with the City

 1
 Tactile exit sign. See detail 2/A2.0

3

2 Tactile exit route sign. See detail 2/A2.0

Door to remain unlocked when building is occupied CBC 2022, section 1010.1.9.4

DOOR NOTES 1) 11B-404.2.5 Thresholds.

Thresholds, if provided at doorways, shall be 1/2 inch high maximum. Raised thresholds and changes in level at doorways shall comply with Sections 11B-302 and 11B-303.

Exception: Reserved.

2) Door finishes and hardware per door schedule.

3) Door handles, pulls, latches, locks and other operating devices shall be installed 34 inches (864 mm) minimum and 48 inches maximum above the finished floor. Locks used only for security purposes and not used for normal operation are permitted at any height. CBC 2022, Section 1010.1.9.2.

4) All hardware at accessible doors shall comply w/CBC, Chapter 10 and Title 24.

5) Exit doors shall operate from the inside without the use of key or special effort per local code.

6) Maximum effort to operate doors shall not exceed 5 pounds for exterior doors, 5 pounds for interior doors, and not to exceed 15 lbs at fire doors. CBC 11B-404.2.9

7) All doors equipped with single-effort, non-grasp hardware (i.e., lever) shall be centered 34" to 44" above the finish floor or ground. CBC 11B-404.2.7

8) While the hardware schedule is intended to cover all doors of the building, and to establish a type and standard of quality, it shall be the responsibility of the hardware supplier to examine the plans and specifications, to furnish the proper hardware for all openings whether listed or not.

9) If there are omissions in hardware groups, they shall be called to the attention of the Architect for clarification.

10) Key all internal doors alike with the same master key. Coordinate levels of access with Owner and/or Tenants.

11) Wall mounted door stops shall be provided where floor mounted stops would be hazardous or where deemed more practical.

characters & background of sign to be nonglare finish and to contrast with each other. (standard color: white on blue background, unless approved otherwise) color & contrast of sign to be distinctly different than color & contrast of wall Sign Placement 60" max. a.f.f. JTE

sans-serif uppercase characters, raised 1/32" per ANSI standards

corresponding grade II braille per ANSI standards

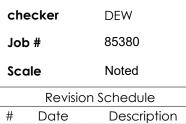
11B-703.3.2 Position.

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 below the entire text. Braille shall be separated 3/8 inch min. and 1/2 inch max. from any other tactile characters and 3/8 inch min. from raised borders and decorative elements.



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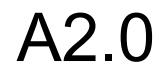


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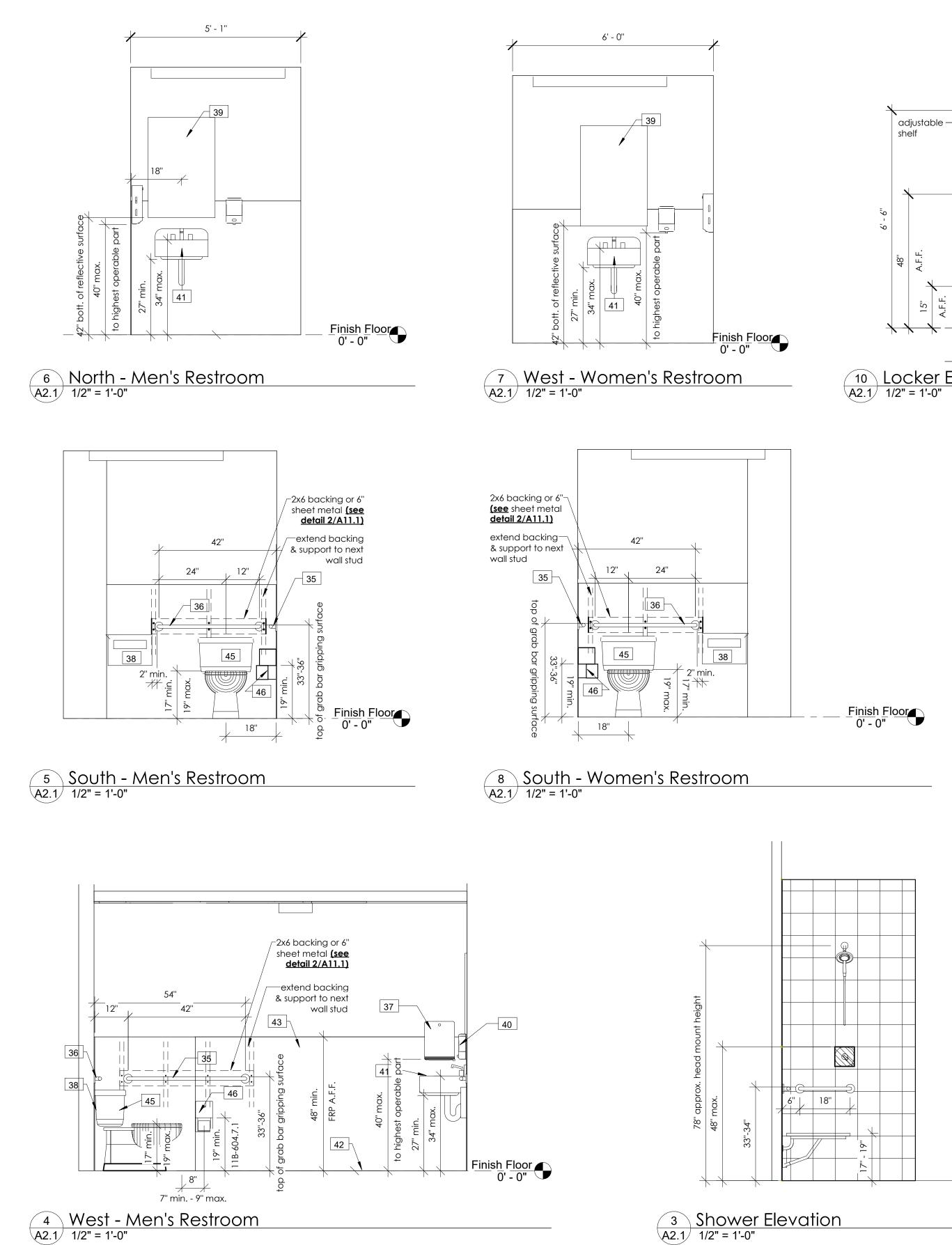
> Life Safety Plan



Sign Placement 60" max. a.f.f. 48" min. a.f.f. per 11B-703.4.1

48" min. a.f.f.

per 11B-703.4.1





A-2 (Locker Rm) - To	otal 308 SF/50 per	OCC.	= 7 occ.	
A-2 (Break Rm & Re		= 11 occ.		
Accessory Total 453	3 SF	= 0 occ.		
· · · · · ·		Total	= 18 occ.	
Male - (9 Total Occ	.)	1	Female - 9 Total O	cc.)
Fixtures	<u>Required</u>	<u>Provided</u>	<u>Required</u>	<u>Provided</u>
Water Closet	1	1	1	1
Lavatory	1	1	1	1
Urinals	0	0	N/A	N/A
Fixtures	<u>Required</u>	<u>Provided</u>		
Service Sink	1 service sink or	1 laundry tray alway	ys required for all oc	cc. per CPC Table 42
Drinking Fountain	0	0		
All Gender RR	0	0		

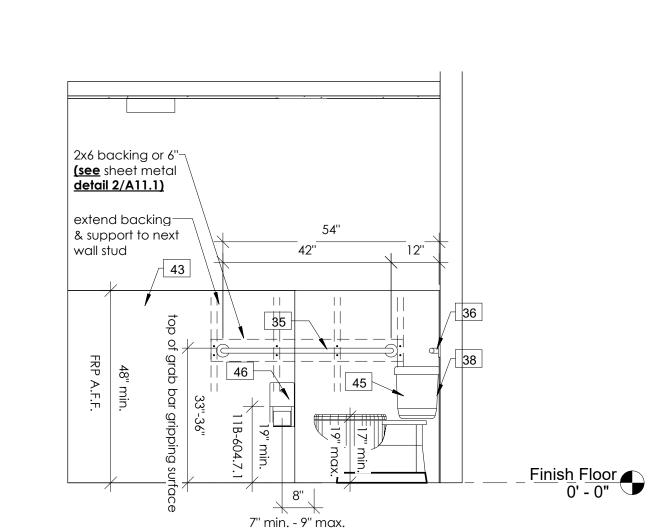
PLUMBING FIXT	URE COUNT S	CHEDULE (CPC	C Table	422.1)				
				*				
B Total 1,253 SF/200 per occ. = 7 occ.								
		Total	= 7					
If Total Occ. < 50	(M&B only) CP	C 422.2 Exception	n 3 can	use Unisex RR				
		·						
Male - (4 Total O	cc.)		Female	e - (3 Total Occ.)				
Fixtures	<u>Required</u>	Provided		<u>Required</u>				
Water Closet	1	1		1				
Lavator	1	1		1				
Urinals	0	0		N/A				
Building - (78 Toto	al Occ.)							
Fixtures	<u>Required</u>	Provided						
Service Sink								
Drinking Fountair	h							
All Gender RR								
Lockers								

Only the lower opening may be

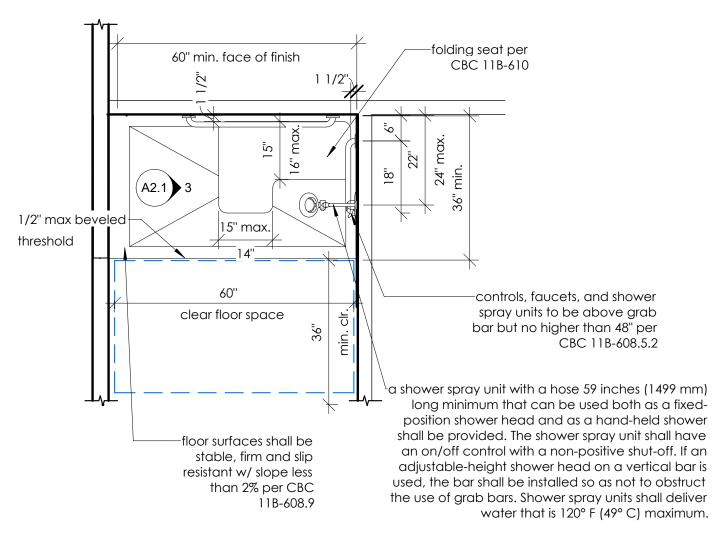
used for ADA compliance

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 $\begin{array}{c} 10 \\ A2.1 \\ 1/2" = 1'-0" \end{array}$



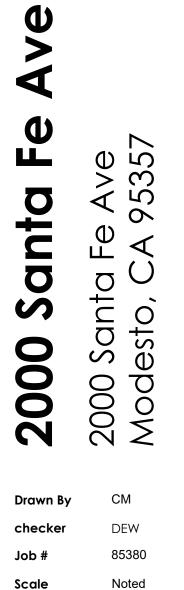
9 East - Women's Restrrom A2.1 1/2" = 1'-0"



.)	
	Provided
	1
	1
	N/A
occ.	. per CPC Table 422.

-recessed handles

Accessible Keynotes					
Key value	Keynote text				
35	42" Grab bar - Toilet compartment side grab bar, Bobrick (Stainless) 42" L x 1-1/2" diameter grab-bar with Bobrick concealed anchor plates, to remove and relocate				
36	36" Grab bar - Toilet compartment rear grab bar, Bobrick (Stainless) 36L" x 1-1/2" diameter grab-bar with Bobrick concealed anchor plates, to remove and relocate				
37	paper towel despenser with a 4" max. projection from face of wall allowed per CBC 11B-307.2				
38	Seat cover dispenser				
39	Mirror at sinks				
40	Soap dispenser				
41	Raise lavatory fixture to the proper height of 36" max and 29" min. Lavatory fixture shall comply with Section 11 B-309. Provide clear floor space in front of lavatories in accordance with CBC 11 B-305 for a forward approach. CBC 11 B-606.2. Hand-operated metering faucets shall remain open for 10 seconds minimum. 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 maximum per CBC 11B-309.4.				
42	Floors of restrooms are finished with smooth, hard, nonabsorbent materials (e.g., sheet vinyl) which extend 5 inches up surrounding walls to provide a continuous, integral base.				
43	FRP 4'-0" AFF on all walls. "Wet" walls of restroom are finished with similar materials to a height of 48 inches min. above the floor over a moisture resistant underlayment (e.g., water-resistant gyp). CBC Sections 1210.2807.1.1, 807.1.2.1 and 1210.2.2.				
44	Compliant restroom signage per detail 5/A11.0				
45	Toilets (Accessible where required) shall be hand operated or automatic flush controls for water closets per CBC 11 B-604.6. The height of the operable parts to be 44 inches maximum per CBC 11 B- 308.2.2. The control to be mounted on the wide side of the water closet area. CBC 11 B-604.6. The activation of the control to require a maximum force of 5 pounds. CBC 11 B-309.4. To remove and relocate				
46	Toilet paper dispenser to				
47	(E) water closet to be removed and replace				
48	(E) lavatory fixture to be removed and replace				
49	(E) countertop to be removed and replace				
50	(E) urinal to be removed and replace				
51	(E) floor to be removed and replace				

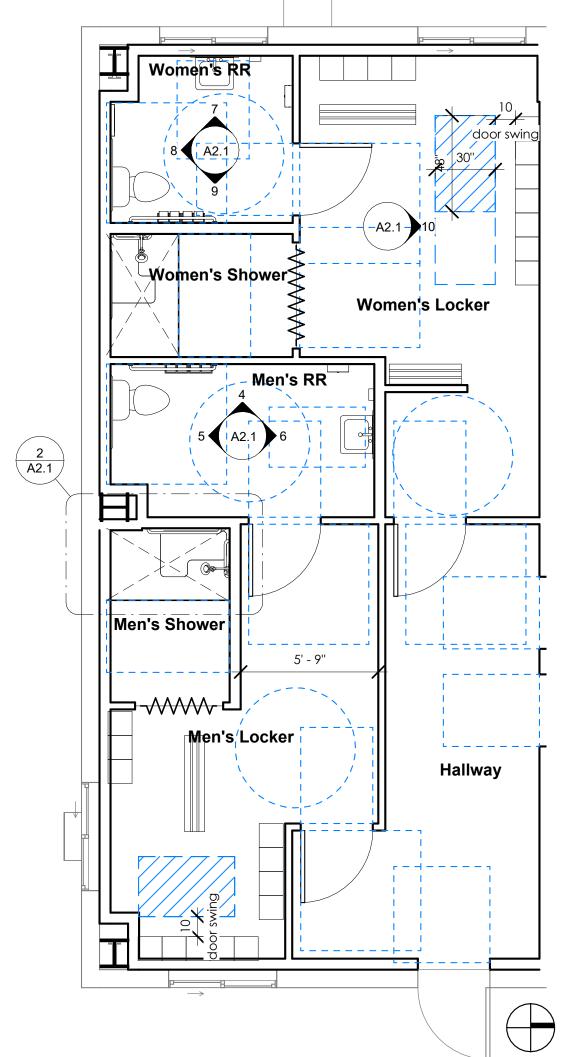


Revision Schedule

Date

A 4/12/04 BID SET

Description





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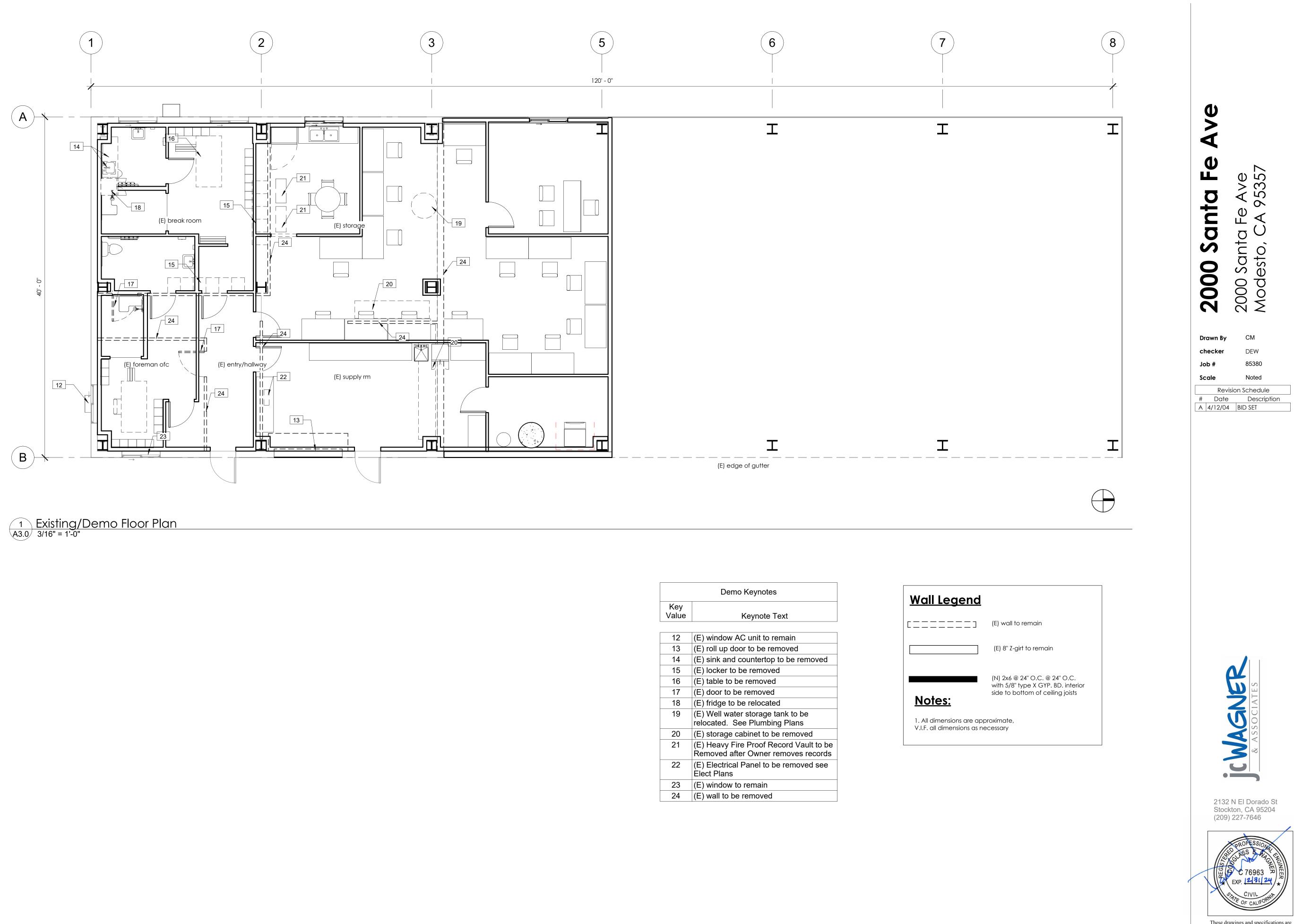


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Accessibility Plan







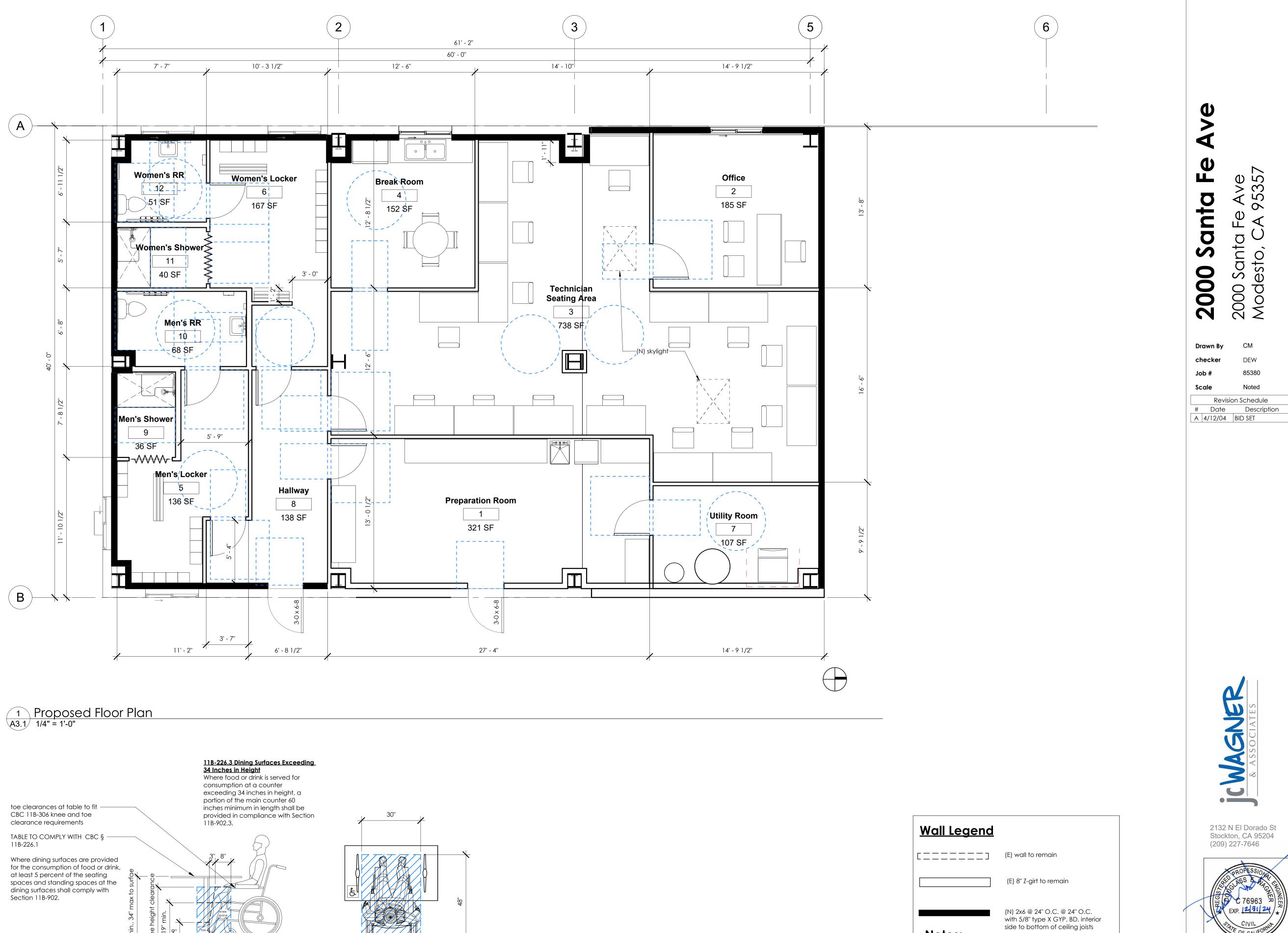


	Demo Keynotes					
Key Value	Keynote Text					
12	(E) window AC unit to remain					
13	(E) roll up door to be removed					
14	(E) sink and countertop to be remove					
15	(E) locker to be removed					
16	(E) table to be removed					
17	(E) door to be removed					
18	(E) fridge to be relocated					
19	(E) Well water storage tank to be relocated. See Plumbing Plans					
20	(E) storage cabinet to be removed					
21	(E) Heavy Fire Proof Record Vault Removed after Owner removes rec					
22	(E) Electrical Panel to be removed Elect Plans					
23	(E) window to remain					
24	(E) wall to be removed					
<u> </u>						

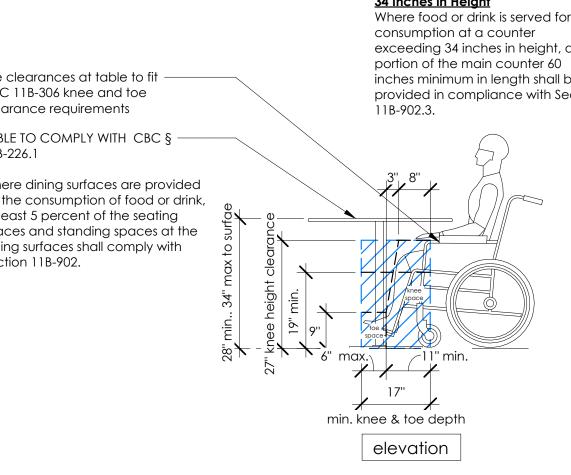
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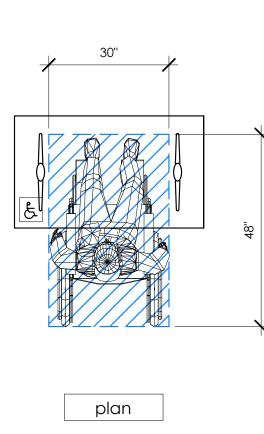
Existing/Demo Floor Plan











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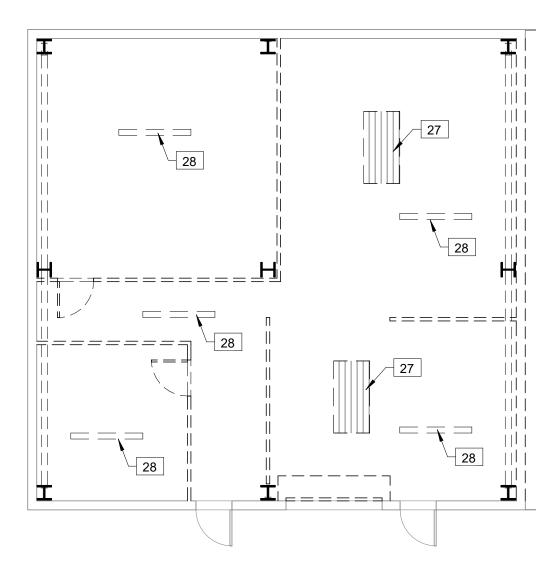
<u>Notes:</u>

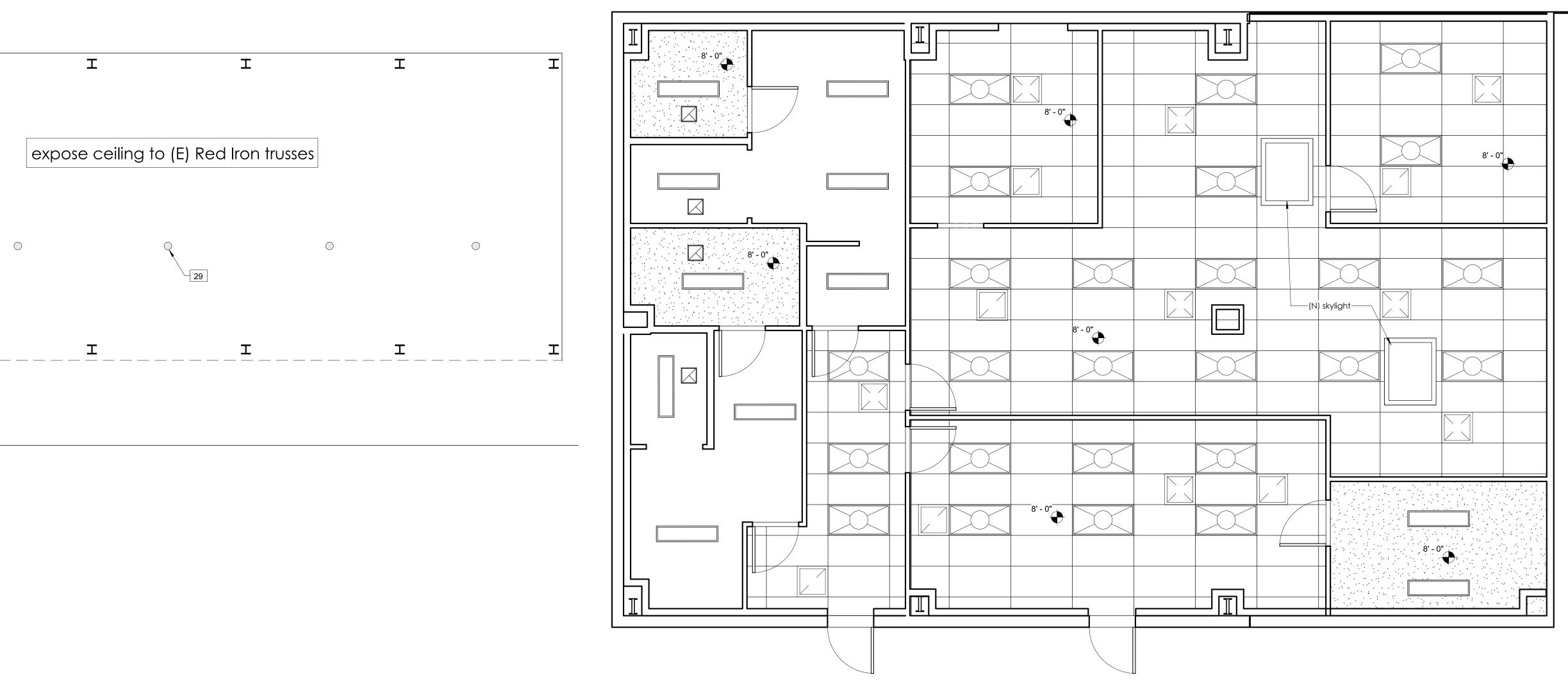
1. All dimensions are approximate,

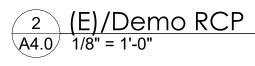
V.I.F. all dimensions as necessary

Floor Plan

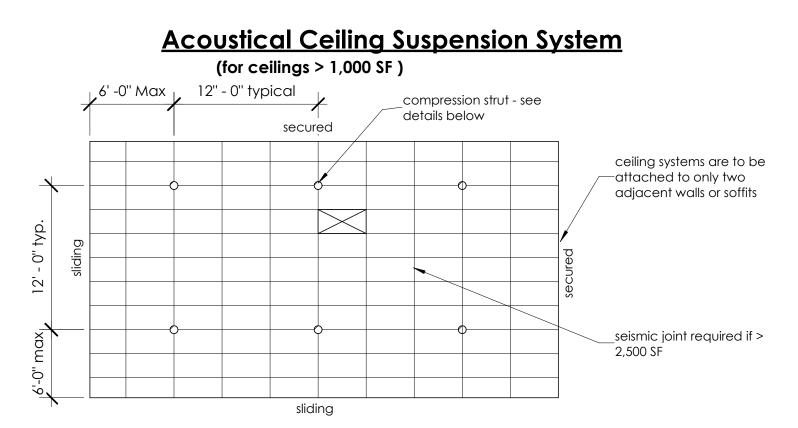








Ceiling Keynotes						
Key Value	Keynote Text					
27	(E) translucent panel to be replaced with like & kind					
28	(E) lighitng to be removed					
29						



CEILING JOIST SCHEDULE							
MAXIMUM SPAN	JOIST TYPE	GAUGE	ACOUSTICAL CEILING SPACING	SHEET ROCK CEILING SPACING			
6'-0"	3 5/8" x 1 5/8"	20	4'-0" O.C.	2'-0" O.C.			
8'-0"	6" x 1 3/8"	20	4'-0" O.C.	2'-0" O.C.			
10'-0"	6" x 1 5/8"	20	4'-0" O.C.	2'-0" O.C.			
12'-0"	6" x 1 5/8"	18	4'-0" O.C.	2'-0" O.C.			
14'-0"	8" x 1 5/8"	20	4'-0" O.C.	2'-0" O.C.			
16'-0"	8" x 1 5/8"	18	4'-0" O.C.	2'-0" O.C.			
18'-0"	10" x 1 5/8"	18	4'-0" O.C.	2'-0" O.C.			
22'-0"	10" x 1 5/8"	16	4'-0" O.C.	2'-0" O.C.			
28'-0"	12" x 2"	16	4'-0" O.C.	2'-0" O.C.			

NOTES: 1. PROVIDE FLAT BRACING ABOVE PER DETAIL, SCREW TO JOIST TOP FLANGE.

Seismic Bracing System and Suspension Notes

1) A compression strut fastened to the main runner shall be extended to the structural members above i.e. the roof structural members, the floor above or a rigid bracing system.

2) The compression struts shall be 12' on center maximum and begin no further than 6' from the walls. 3) Compression struts must be spaced a minimum of 6" from all horizontal piping or duct work that is not

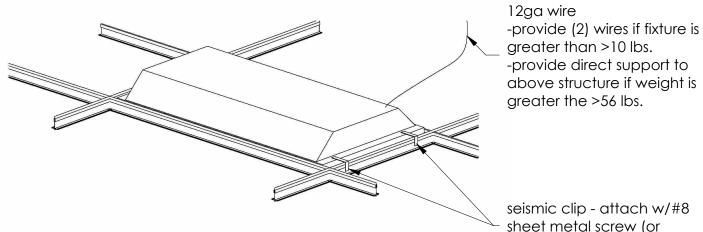
provided with bracing restraints for lateral forces.

4) Bracing wires must be attached to the grid and to the above structure to support a design load of 200 lbs or the actual load, whichever is greater, with a safety factor of 2. 5) Where the roof system is composed of wood beams, purlins and sub-purlins, the 2x4 or 2x6 sub-purlins are not

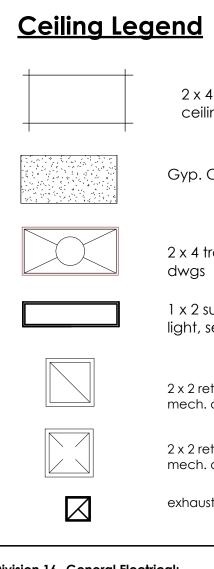
to be considered appropriate structural members for support. 6) Ceiling suspension systems shall comply with 803.9 and 2506.2.1 of the CBC. Components shall be ASTM C635

"heavy duty" class. 7) The compression strut shall be vertical and shall not be out of plumb more than 1" in 10'.

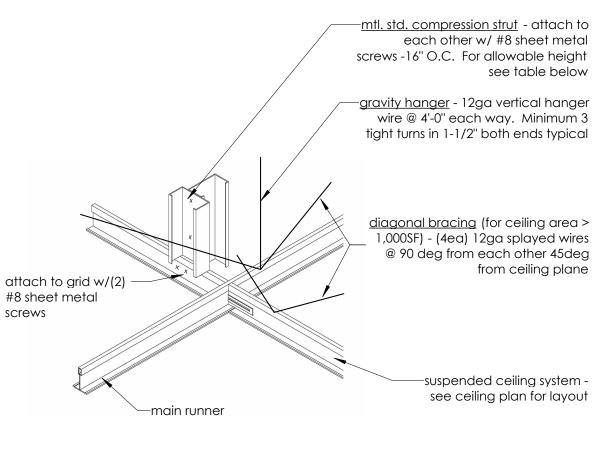
8) Compression struts are exempt for ceilings <1,000 SF per ASTM report E580 section 1.5 and 5.2.8.1



(N) Reflective Ceiling Plan



Metal Stud Compression Strut Detail



mtl. stud allowable height table type double 🖵 single 250\$125-33 12' - 0'' 20' - 0'' 362\$125-43 27' - 0'' 13' - 0'' 600S125-43 14' - 0'' 42' - 0''

Note: table based on 1-1/4" leg with a 3/8" return. see above for double connection stud orientation

Division 16- General Electrical:

General

1. Install all electrical in this work per LATEST N.E.C. and Stanislaus County Building Dept. requirements. Flexible conduit may be used but must carry ground wire box. Switch lighting as indicated on drawings. All circuits as required by other trades. General electrical maybe run in flexible metal conduit, MC or EMT or romex. MC cable housed in concealed wall or ceiling. Install all fixtures per MFG required. Use only approved and listed equipment.

2. Conductors shall be copper conductors type THWN/THHN. Use connectors approved for related wire size. The use of stranded or solid approved. Use stranded for sizes #8 or larger. 3. All work shall conform to the CEC 2022 edition and to the applicable requirements of local, state, and federal code(s) and/or agencies having jurisdiction; and shall take precedence over work shown. Any discrepancies shall be brought to the attention of the designer prior to the installation of work.

4. Electrical contractor shall verify diagrammatic layout of electrical work with owner prior to installation. 5. See electrical symbols, verify all symbols and conditions as required prior to installation.

Light Fixture Attachment Detail

-provide (2) wires if fixture is

-provide direct support to

greater than >10 lbs.

12ga wire

seismic clip - attach w/#8 sheet metal screw (or approved fastener)

2 x 4 suspended T-bar ceiling @ 0'-0" from F.F.

Gyp. Ceiling

2 x 4 troffer light, see elec.

1 x 2 surface mount LED light, see elec. dwgs

2 x 2 return register, see mech. dwgs

2 x 2 return register, see mech. dwgs

exhaust fan, see mech. dwgs

Job Conditions

6. Electrical drawings: The electrical drawings, as contained, are essentially diagrammatic and although the size and location of equipment are shown to scale wherever possible contractor shall make use of all data and verify this information at the building site. The dates indicated on the drawings and in the job conditions and decisions of the designer will govern exact locations, distances, levels, and other conditions.

7. Operation:

The system shall be complete and fully functioning to the satisfaction of the designer and the owner. Install all circuits, J-Boxes, wiring disconnects and any other equipment needed to provide electrical service for signage.

8. Drawings:

The layout of light fixtures are to be divided in the room as shown on the plans. Any questions about layout should be directed to the engineer. Upon completion of the installation, furnish a set of 'record' (as-built) drawings to the designer clearly marked with the changes authorized during construction, cutting/ nothing/

drilling contractor shall be responsible for all work herein including cutting, boring, notching, furring and drilling as necessary to complete this project. **Note: no cutting, boring, notching, furring and drilling of

truss or other structural members will be allowed. Contractor shall coordinate with other trades to allow for group runs and eliminate any overlapping or obstruction.

9. Working Clearances Working clearances requirements for all electrical

equipment including disconnects will be maintained as per CEC 2022 article 110.26

10. Completion of Work and Test The entire electrical system shall be free from any short circuits, and improper grounds. Demonstrate with the owner and designer that the entire installation is complete and in proper operating condition.

Ave Fe Santa 2000

e Ave 95357 2000 Santa Fe , Modesto, CA 9

СМ Drawn By DEW checke 85380 Noted **Revision Schedule** # Date Description A 4/12/04 BID SET



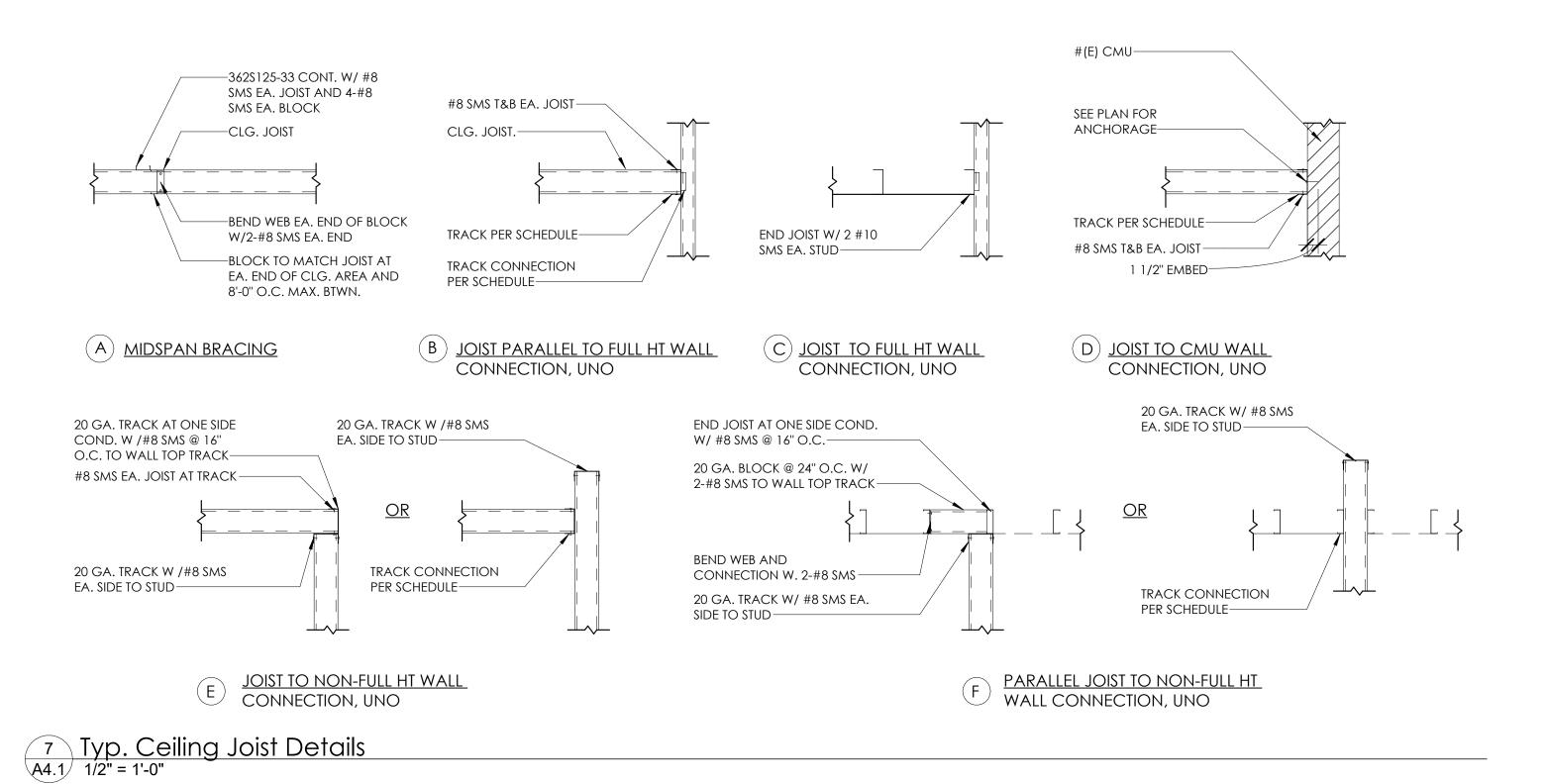
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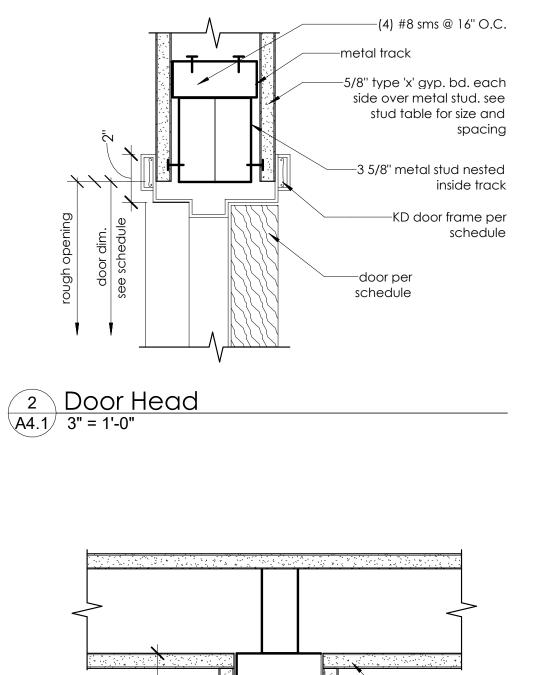


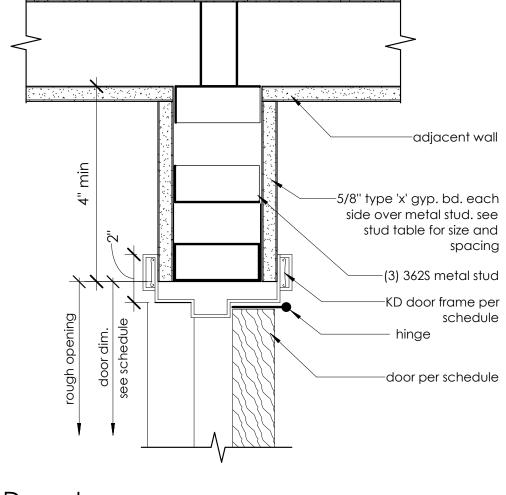
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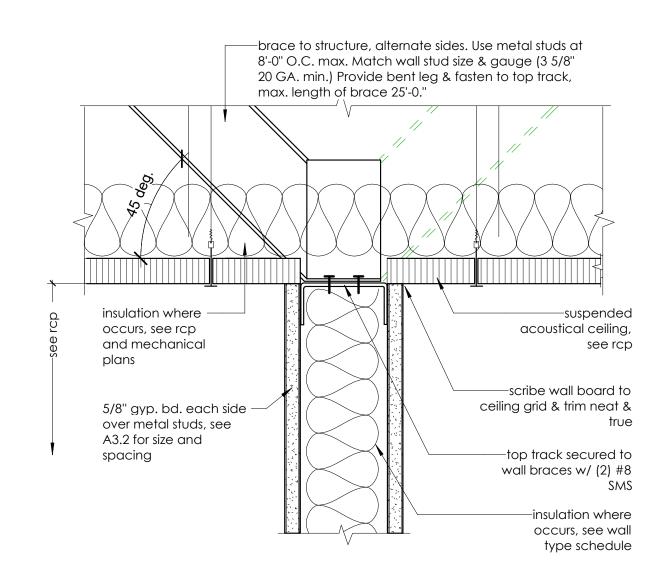
Reflective Ceiling Plan



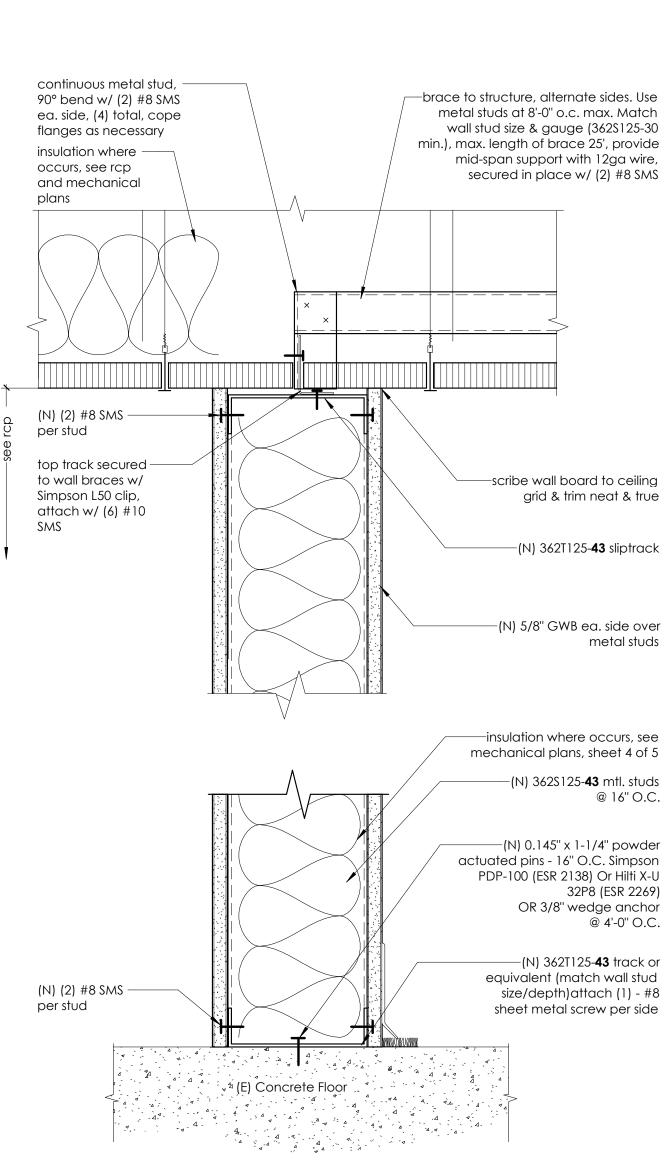








9 Alternate Diagonal Wall Bracing A4.1 3" = 1'-0"



P ; Ave 95357 Santa Φ \triangleleft LL 2000 Santa F Modesto, C/ 2000 CM Drawn By checker DEW 85380 Job # Noted Scale **Revision Schedule**

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Date Description A 4/12/04 BID SET



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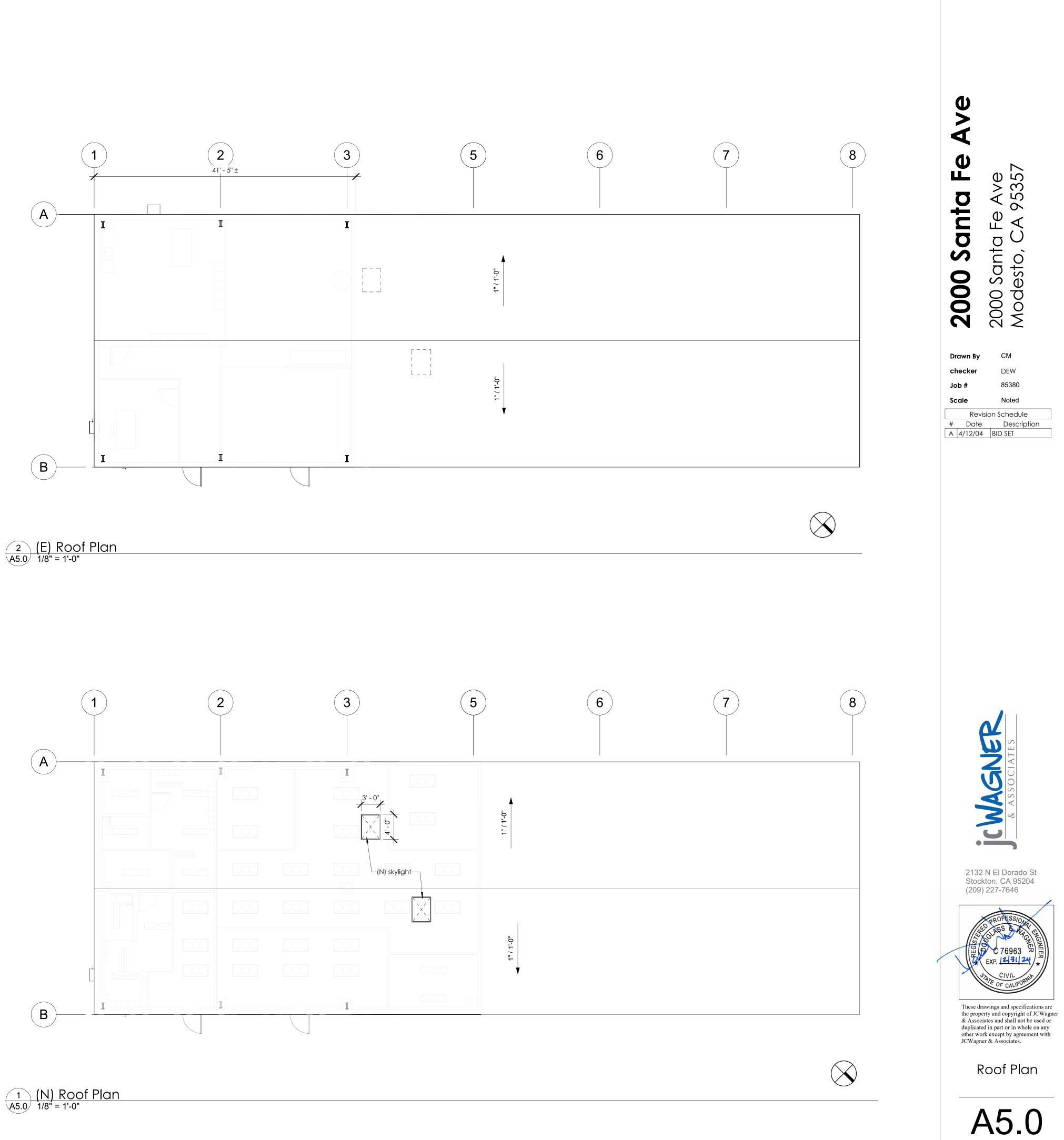


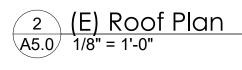
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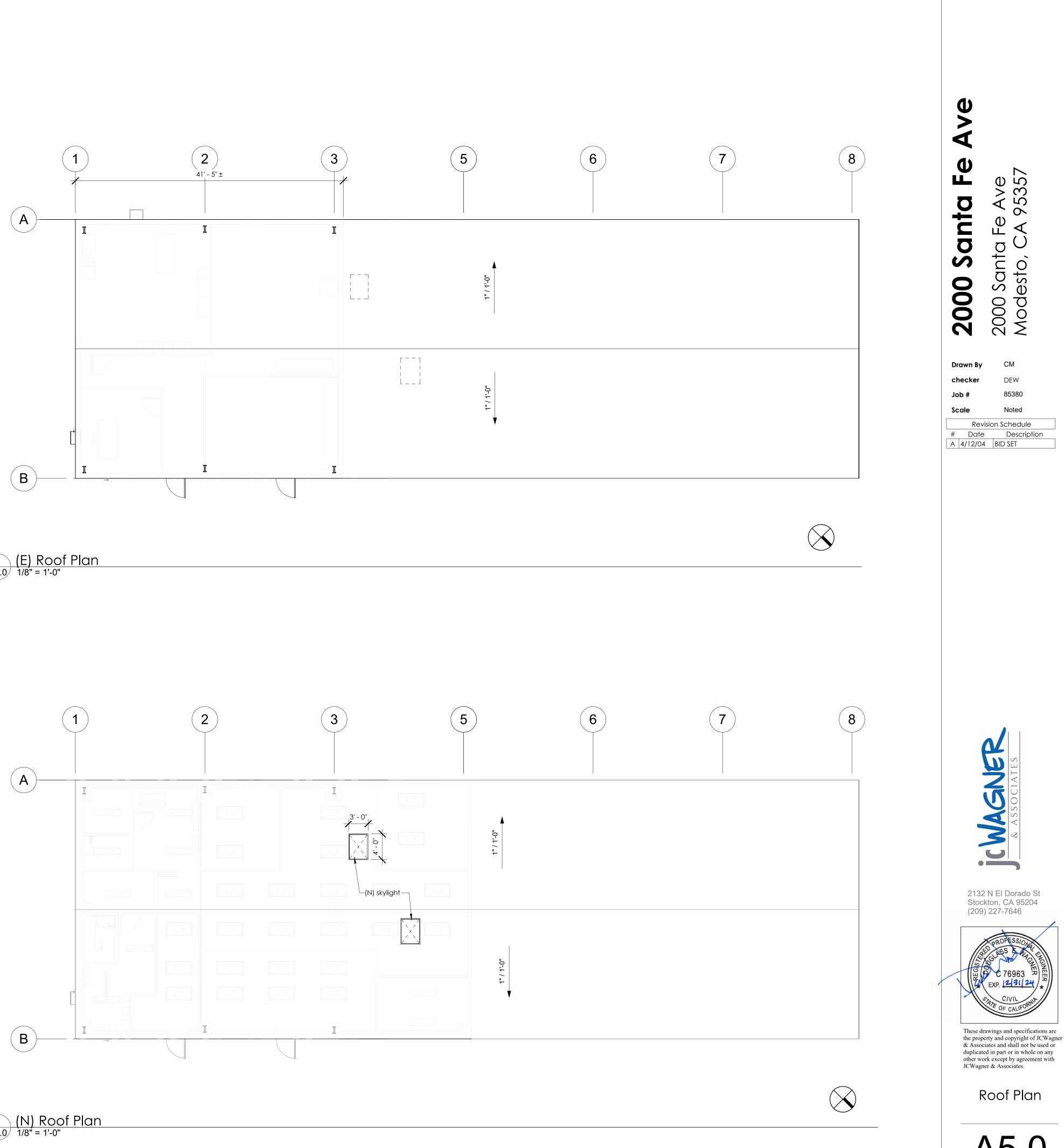
RCP Details

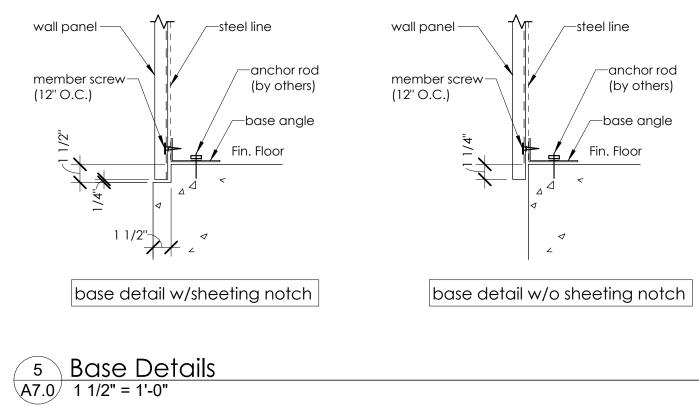


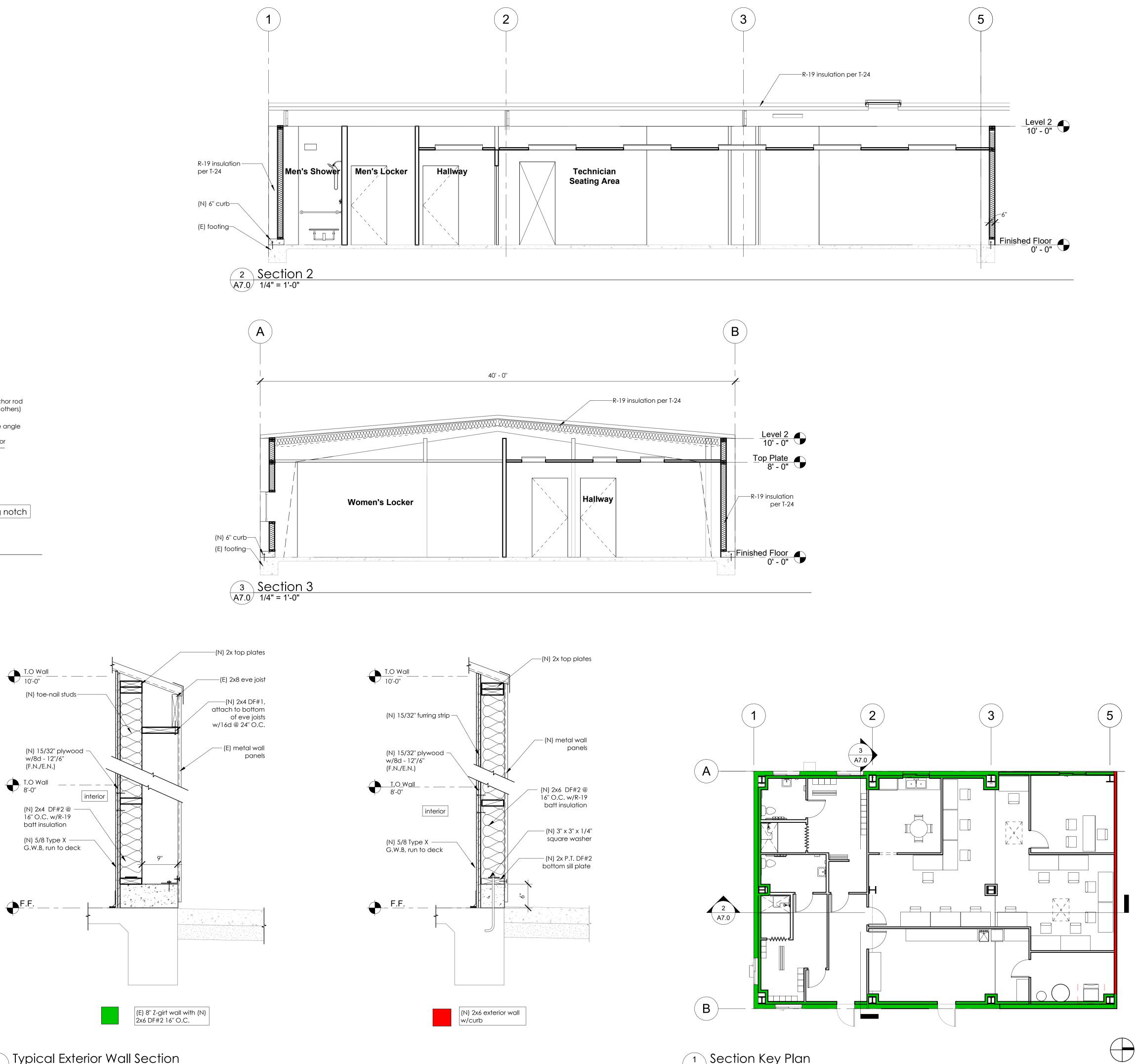
8 Standard Wall Section A4.1 3" = 1'-0"











4 Typical Exterior Wall Section A7.0 1" = 1'-0"

1 Section Key Plan A7.0 1/8" = 1'-0"

Ave 2000 Santa Fe 2000 Santa Fe Ave Modesto, CA 95357 CM Drawn By DEW checker 85380 Job # Noted Scale Revision Schedule <u># Date Description</u> A 4/12/04 BID SET D NS JC WA

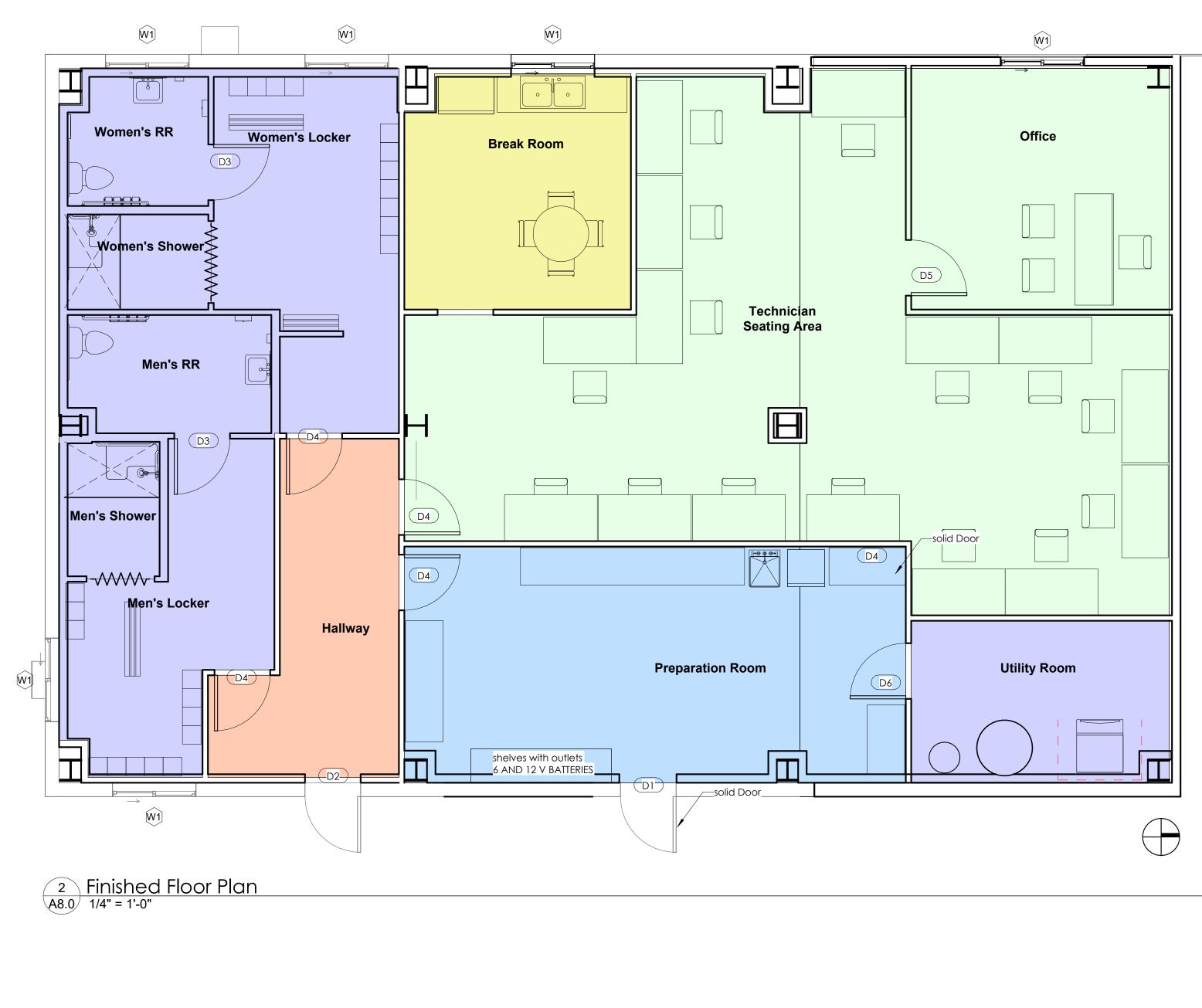
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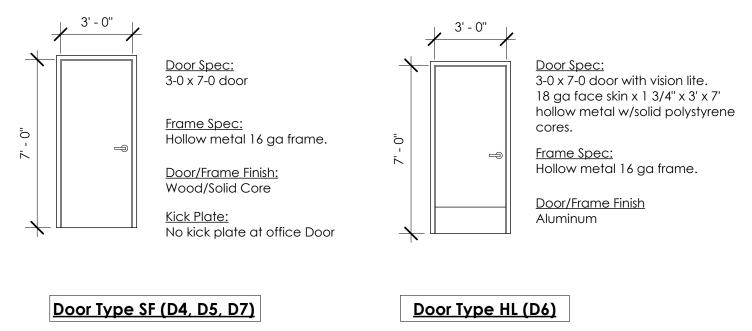


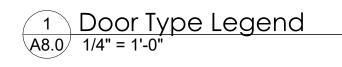
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Building Section



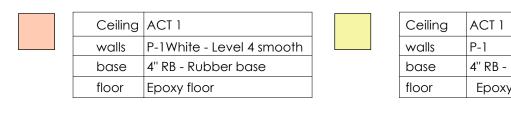






1 1 2	Exterior Door Exterior Door Interior Door	3' - 0'' 3' - 0'' 3' - 0''	7' - 0'' 7' - 0'' 7' - 0''	2" 2" 2"	Office Lock Function (Outside lever locked, inside lever operable) Office Lock Function (Outside lever locked, inside lever operable) Privacy Lock (push button	e N/A	hollow metal	metal metal	Yes Yes	kick plate - 10" H x 34" W stainless steel kickplate - PUSH SIDE ONLY kick plate - 10" H x 34" W stainless steel kickplate -	
					(Outside lever locked, inside lever operable) Privacy Lock (push button		hollow metal	metal	Yes	34" W stainless steel kickplate -	
2	Interior Door	3' - 0''	7' - 0''	2"						PUSH SIDE ONLY	
					lock)	TBD	hollow metal	wood/solid core	Yes	kick plate - 10" H x 34" W stainless steel kickplate - PUSH SIDE ONLY	
4	Interior Door	3' - 0''	7' - 0''	2"	Passage Latch/Storeroom Lock Function (Outside level locked, Inside lever operable)	TBD	hollow metal	wood/solid core	Yes	kick plate - 10" H x 34" W stainless steel kickplate - PUSH SIDE ONLY	
1	Interior Door	3' - 0''	7' - 0''	2"	Office Lock Function (Outside lever locked, inside lever operable)	e TBD	hollow metal	wood/solid core		kick plate - 10" H x 34" W stainless steel kickplate - PUSH SIDE ONLY	
1	Interior Door	3' - 0''	7' - 0''	2"	Passage Latch/Storeroom Lock Function (Outside level locked, Inside lever operable)	TBD	hollow metal	metal	Yes	kick plate - 10" H x 34" W stainless steel kickplate - PUSH SIDE ONLY	
otal: 10											
	(# (N) V	Vindow Sc	hedule							
ark	Count Width	n Heig	ht	Descript	tion Comments	;					
	1 tal: 10	1 Interior Door tal: 10 [Irk Count Width	1 Interior Door 3' - 0" tal: 10 # (N) V irk Count Width Heig	1 Interior Door 3' - 0" 7' - 0" tal: 10 # (N) Window Sc trk Count Width Height	1 Interior Door 3' - 0" 7' - 0" 2" tal: 10 # (N) Window Schedule irk Count Width Height Description	1 Interior Door 3' - 0" 7' - 0" 2" (Outside lever locked, inside lever operable) 1 Interior Door 3' - 0" 7' - 0" 2" Passage Latch/Storeroom Lock Function (Outside lever operable) 1 Interior Door 3' - 0" 7' - 0" 2" Passage Latch/Storeroom Lock Function (Outside lever operable) tal: 10 # (N) Window Schedule Inside lever operable	1 Interior Door 3' - 0" 7' - 0" 2" (Outside lever locked, inside lever locked, inside lever operable) 1 Interior Door 3' - 0" 7' - 0" 2" Passage Latch/Storeroom Lock Function (Outside lever operable) 1 Interior Door 3' - 0" 7' - 0" 2" Passage Latch/Storeroom Lock Function (Outside lever operable) tdl: 10 # (N) Window Schedule TBD trk Count Width Height Description Comments	1 Interior Door 3' - 0" 7' - 0" 2" (Outside lever locked, inside lever locked, inside lever locked, inside lever operable) TBD hollow metal 1 Interior Door 3' - 0" 7' - 0" 2" Passage Latch/Storeroom Lock Function (Outside lever operable) TBD hollow metal 1 Interior Door 3' - 0" 7' - 0" 2" Passage Latch/Storeroom Lock Function (Outside lever operable) TBD hollow metal 10 ## (N) Window Schedule # (N) Window Schedule Comments	1 Interior Door 3' - 0" 7' - 0" 2" (Outside lever locked, inside lever locked, inside lever operable) TBD hollow metal wood/solid core 1 Interior Door 3' - 0" 7' - 0" 2" Passage Latch/Storeroom Lock Function (Outside lever operable) TBD hollow metal metal 1 Interior Door 3' - 0" 7' - 0" 2" Passage Latch/Storeroom Lock Function (Outside lever operable) TBD hollow metal metal 10 # (N) Window Schedule #rk Count Width Height Description Comments	1 Interior Door 3' - 0" 7' - 0" 2" (Outside lever locked, inside lever operable) TBD hollow metal wood/solid core 1 Interior Door 3' - 0" 7' - 0" 2" Passage Latch/Storeroom Lock Function (Outside lever operable) TBD hollow metal metal Yes 1 Interior Door 3' - 0" 7' - 0" 2" Passage Latch/Storeroom Lock Function (Outside lever operable) TBD hollow metal metal Yes (N) Window Schedule irk Count Width Height Description Comments	1 Interior Door 3' - 0" 7' - 0" 2" Office Lock FUnction (Outside lever locked, inside lever operable) TBD hollow metal wood/solid core 34" W stainless steel kickplate - PUSH SIDE ONLY 1 Interior Door 3' - 0" 7' - 0" 2" Passage Latch/Storeroom Lock Function (Outside level locked, Inside lever operable) TBD hollow metal wood/solid core Steel kickplate - PUSH SIDE ONLY tal: 10 tal: 10 tal: 10 tal: 10 tal: 10 tal: 10 tal: 10

Hallway



walls P-1 Level 4 smooth

base 4" RB - Rubber base

floor Carpet Tile 24" x 24"

Technician Seating Area/Office

Ceiling ACT 1

Restroom/Utility Room

Break Room

Ceiling
walls
base
floor
wainscot

Preparation Room

Ceiling	ACT 1
walls	P-1
base	4" VB - cove base
floor	EP-1

<u>Finish Legend</u>

EP-1:	Style: Expoxy Floor Color: TBD
TC-1:	Mrf: TBD, Style: TBD, Color: TBD
B-1:	2.5" Base, Color: TBD
VB:	4" Rubber Base, Color: TBD

P-1: Mrf: **TBD**, Finished: **TBD**, Color: **TBD**

FRP-1: Marlite, 4'-0" high for all gender restroom, white pebble w PVC trim ACT-1: Armstrong, Second Look Tegular, 24" x 48"

Notes:

 All interior wall and ceiling finish materials shall comply with CBC Table 803.11 requirements for flame spread.

2. All interior wall and ceiling finish materials shall have a smoke development between 0 and 450

per CBC Section 803.1.1.

3. All surfaces of any building structural materials left exposed in wall/ceiling finishes shall be

considered the finished surface and shall comply with CBC Section 803.1.

Door Hardware Notes:

1. All door hardware to be Schlage Brand - medium commercial duty.

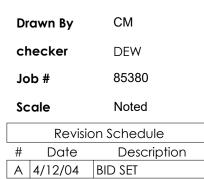
- 2. Non locking doors from sales to hall or stockroom. 3. Restroom to have push button style locks.
- 4. Rear exit door to have a peep hole.
- 5. Rear exit door to have alarming detect crash bar.
- 6. All doors to have door silencers.
- 7. Rear doors to have new weather stripping and door sweep installed. 8. Door chime: install on storefront and stockroom doors - ez-chime-color to match door.

base 4" RB - Rubber base Epoxy floor

P-1

GWB P-1 Restroom - Tile Cove Utility Room - 4" VB cove base Epoxy floor t FRP-1







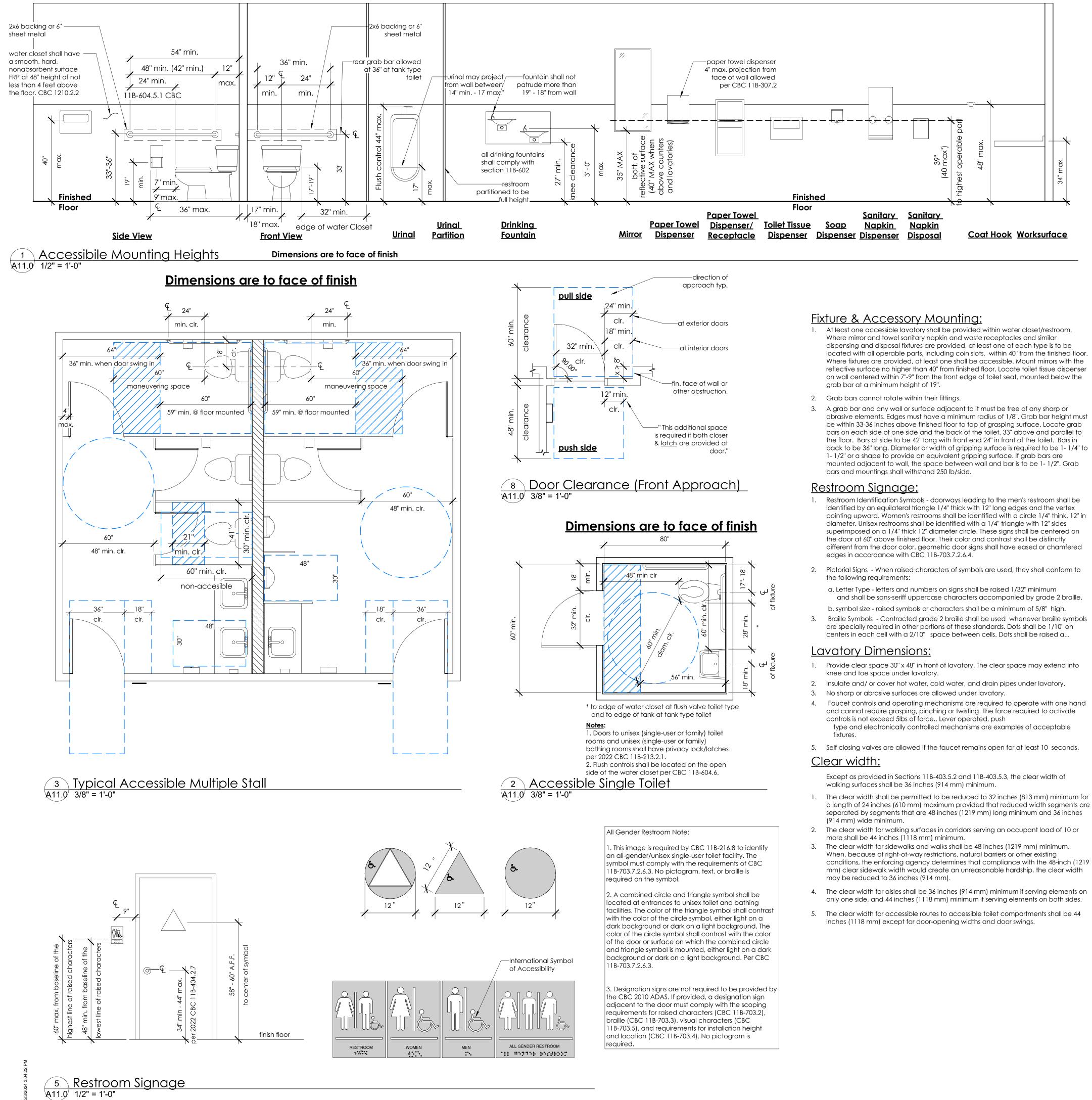
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> Finished Schedule





- 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
- conditions, the enforcing agency determines that compliance with the 48-inch (1219
- 4. The clear width for aisles shall be 36 inches (914 mm) minimum if serving elements on

X Exterior Accessibility Elements

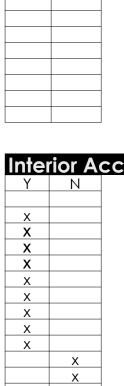
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located with all operable parts, including coin slots, within 40" from the finished floor. reflective surface no higher than 40" from finished floor. Locate toilet tissue dispenser

abrasive elements. Edges must have a minimum radius of 1/8". Grab bar height must back to be 36" long. Diameter or width of gripping surface is required to be 1-1/4" to

pointing upward. Women's restrooms shall be identified with a circle 1/4" think. 12" in



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Miscellaneous

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<u>/ N</u>		en's checklist	Reference:	Notes:
	Y N			
	Unisex		CBC 2022 Section 11B:	
	OTHISCX	Present	213.2	
		Allowable per occ. load <10	CPC 422.2(a)	
		Allowable per occ. loads B and $M < 50$	CPC 422.2 (b)	
Women's	Men's			
	X	Accessible Signage	703.7.2.6	
	X	60" turning space	304, 603.2	
	X	18" pull side clearance	404.2.4	
	X	12" push side clearance w/latch and closer	404.2.4	
	X	Lever hardware	404.2.7	
	X	Toilet seat 17" min-19" max height	604.4	
	X	Centerline of toilet fixture 17"-18" from wall	604.2	
	X	Toilet flush handle is on the wide side	604.6	
	X	Grab Bars present	604.5	
	X	33"-36" grab bar height @ top of bar	609.4	
	X	42" minimum side grab bar length	604.5.1	
	X	Side grab bar extends 24" in front of toilet bow1	604.5.1	
	X	36" min rear grab bar length	604.5.2	
	X	Toilet stall minimum dimensions	604	
		60" minimum stall width dimension	604.3.1	
	X		604.3.1	
	X	48" minimum clear in front of toilet	604.8.1.2	
	X	32" clear stall opening width		
	X	Minimum 29" clear under lavatory at front	306.3.3	
	X	Maximum 34" to top of sink	606.3	
	X	Lavatory faucet has lever or equivalent faucet handle	606.4	
	X	Lavatory faucet maximum 5 pound force to operate	606.4	
	X	40" maximum to bottom of mirror	603.3	
	X	Toilet paper roll minimum 19" high	604.7	
	X	Sanitary product dispenser & disposal 40" maximum high	603.5	
	X	Equivalent facilitation provided with. 48" minimum path	602	
	X	Accessible path to sanitary facilities	402	
	X	17" maximum urinal lip height	605.2	
	X	14" minimum, 17" maximum projection from wall	605.2	

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405.2

405.3

404.2.7

703.3

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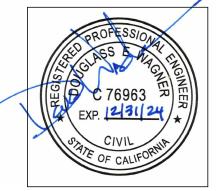
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Accessibility Standards



Hi-low fountain provided with	following dimensions	602	
Fountain projects minimum 18		602.8	
30" x 48" clear approach to fo		602.2	
Minimum 27" clear dimension		306	
Spout height maximum 36" fo		602.4	
Spout maximum of 5" from fro	ont of fountain	602.5	
Recessed alcove provided for	r fountain with the following dimensions:	-	
32" minimum clear width in al		602.9	
18" minimum deep alcove (fr	ont to back)	602.9	
Alcove alternates in existing b		-	
Wing wall alternate:		602.9, 305.7	
Minimum 32" clear between v	wing walls	602.9	
Wing walls project minimum o		602.9	
eous Accessible Items			
Storage/Alarms		Reference:	Notes:
Slorage/Alams		CBC 2022 Chp 11B Section	
Accessible fixed storage		804	•
30" X 48" minimum clear appi	raach	804, 811, 305	-
54" maximum height for side r		804, 811, 305	-
9" minimum height for side red		804, 811, 305	-
46" maximum height for react		804, 811, 305	
Complying hardware		811	
Strobes		215	
Audible alarm level		215	-
Public Phone		217	
30" X 48" minimum clear app	raaab	217	+
27" maximum clear under pho		217	
48" maximum height to opera		217	
Volume control present		217	
Text phone		217	
Elevator		407	
36" minimum clear door oper	vina	407	
54" x 80" minimum clear cab	size for center opening door	407	
68" x 54" minimum clear cab		407	
Control buttons		407	
48" maximum height for front	approach	407	+
54" maximum height for side		407	+
42" maximum height of call b		407	+
Floor number 60" above floor		407	+
Braillo controls		407	+

Braille controls Buttons minimum ¾" diameter, raised 1/8' Door stays open minimum of 5 seconds

Verify the following for all changes in level:

<u>Braille room signage on all rooms that have a sign</u>

Lever-type or panic hardware on all doors in accessible path of travel

Maximum 1:12 ramp slope

Braille exit signage at all exit signs

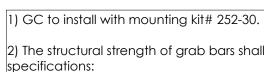
<u>Maximum 2% cross slope</u>

New ramp required?

Braille signage at stairs Drinking Fountain

Chair lift required?

Site & Parking	Reference:	Notes:
	CBC 2022 Chp 11B Section:	
Path from street accessible throughout its length	206.2.1	
5' minimum sidewalk width to entrances	403	
Ramp/sidewalk slopes:	403.3, 405.2	
2% cross slope for sidewalks and ramps	405.2	
New ramp required?	-	
Handrails required if slope > 1:20, length > 6'	405.8	
Complying handrails provided?	405.8	
Maximum 1:12 ramp slope	405.2	
Site access sign	216.6, 703.7.2	
Accessible parking provided (AP)?	208, 502	
AP van stall provided (9' parking + 8' unloading)	208.2.4, 502	
AP stall sign	216.5, 502	
60" to bottom if on pole or on building wall	216.5, 502	
AP closest to entrance	208.3.1, 502	
AP occupant required to go behind other cars? (Not Allowed)	502.3.4, 502	
Building Entrance	-	
5'x5' minimum landing	404.2	
32" minimum clear door opening	404.2.3	
Max 1/2" threshold above floor either side of door	404.2.5	
10" smooth kickplate at bottom of door	404.2.10	
24" clear @ pull side of door	404.2	
12" clear @ push side if door has latch & closer	404.2	
Landing dimension 42" minimum + door dimension @ ramp landing	405.7.5	
Lever-type or panic hardware at all doors	404.2.7	
Entrance signage showing accessible entrances	216.6	
Closer keeps door open minimum 3 seconds from 70 to 3 inches from	404.2.8	
Maximum 5 pound force to open exterior and interior doors	404.2.9	
Maximum 15 pound force to open fire-rated doors	404.2.9	
Access lift required ?	706.7, 206.7	
Access lift provided?	206.7	
Maximum 5 pound force to open exterior and interior doors Maximum 15 pound force to open fire-rated doors Access lift required ?	404.2.9 706.7, 206.7	



grab bar.

stress.

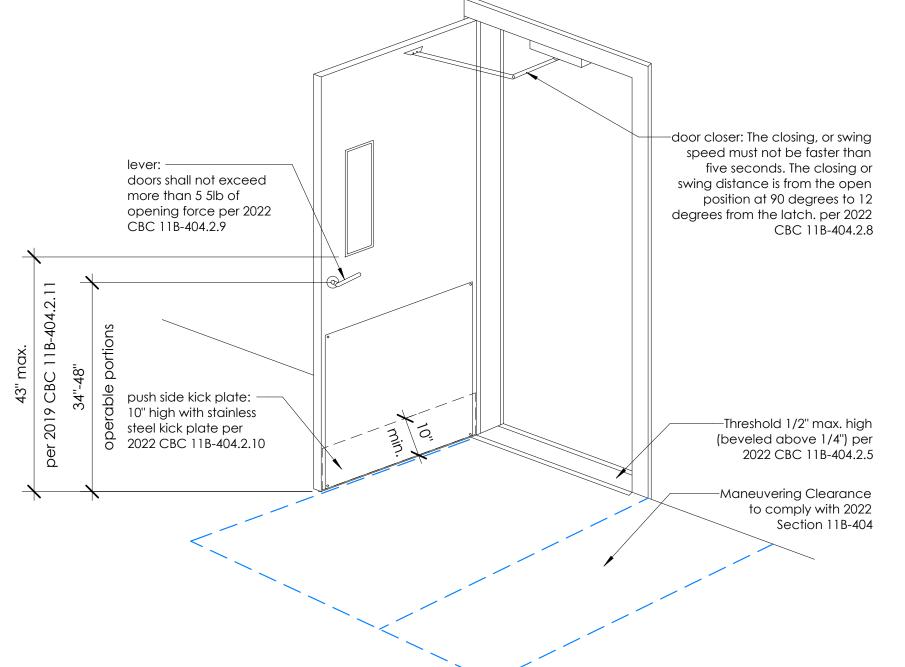
(C) Shear force induced in a fastener or mounting device from the application of 250 LBF (1112N) shall be less than the allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable loads. plaster or sheet rock.

(D) Tensile force induced in a fastener by a direct tension force of 250 LBF (1112N) plus the maximum moment from the application of 250 LBF(1112N) shall be less than the allowable withdrawal load between the fastener and the supporting structure. (E) Grab bars shall not rotate within their fittings.

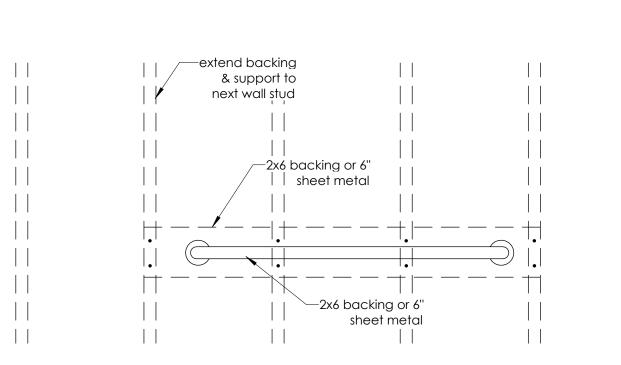
(F) Grab bars shall be vertical, diagonal, or horizontal, depending on space constraints and location.

maximum of $1 \frac{1}{2}$ ". a safe grip.

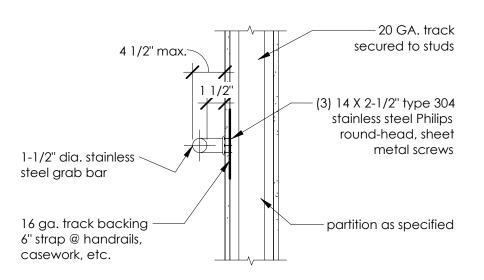
surface) or have smooth and rounded screw heads.

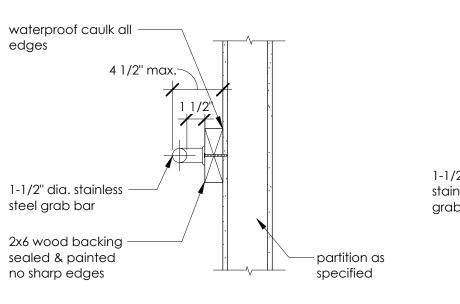


7 Accessible Door Requirements A11.1 1/2" = 1'-0"







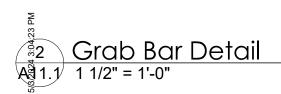


ALT: Surface mounted support

ALT: Conditioned w/blocking & support in wall

partition as

specified





<u>Note:</u>

1. Every required exit door shall be 36" wide x 6'-8" high minimum.

2. Exit doors shall be able to open at least 90 degrees and the clear width shall not be less than 32".

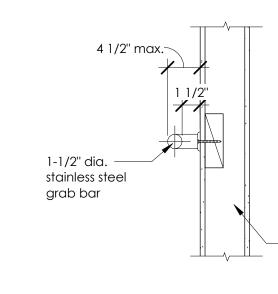
DOOR OPENING EFFORTS (per 2019 CBC 11B-404.2.9): Exterior Doors: 5 lbs max. Interior Doors: 5 lbs max. Firewall Doors: 15 lbs max.

3. Every required exit door shall have a tactile exit sign that complies with 2019 CBC 11B sections see signage notes on sheet A2.2.

4. Locate electrical & telephone/data outlets and switch boxes at nearest stud from scaled location on plan unless otherwise specified.

5. The lower 10" of the door surface is provided with a smooth surface for the full width of the door at the push side per CBC 11B-404.2.10.

4 Typical Door Mounting Heights A11.1 1/4" = 1'-0"



2) The structural strength of grab bars shall meet the following

(A) Bending stress in grab bar induced by the maximum bending moment from the application of 250 LBF (1112N) shall be less than the allowable stress for the material of the

(B) Shear stress induced in a grab bar by the application of 250 LBF (1112N) shall be less than the allowable shear stress for the material of the grab bar. If the connections between the grab bar and its mounting bracket or other support is considered to be fully restrained, then direct and erosional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear

(G) The minimum grab bar length shall be 18" for a vertical bar, or 24" for a horizontal bar. When space allows, use longer grab bars that are 36", 42", or 48" in length.

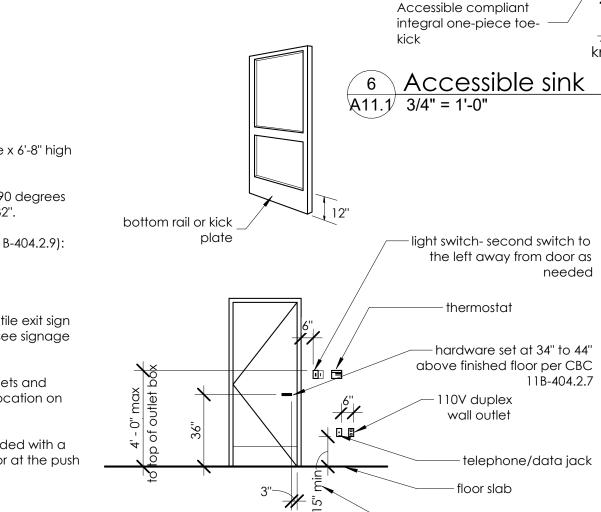
(H) Grab bar diameter shall be a minimum of 1 ¼" and a The clearance behind a grab bar shall be 1 1/2 " exactly for

(I) The clearance below a grab bar to a fixture, such as a toilet paper dispenser etc., shall be 1 1/2" minimum.

(J) There shall be no sharp edges on the grab bar surface or on the mounting plates. This includes screws, bolts, or fasteners which must be counter sunk (flush below the

(K) Stainless steel fasteners (screws) are recommended. They are strong and won't rust.

(L) Fasteners (screws) need to be long enough so they penetrate 1 1/4" into the frame. A 2" screw is usually long enough after going through 5/8" of plaster or sheet rock. Use longer screws when going through tile over mortar and plaster or sheet rock.

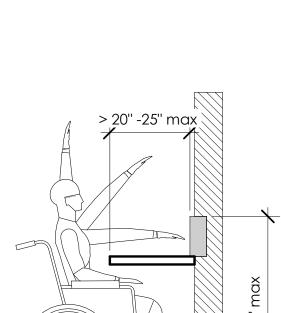


- to bottom of outlet box

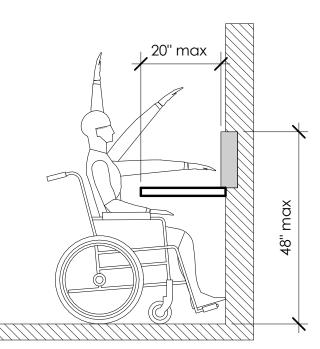
Unobstructed Forward Reach

Note: Refer to CBC-11B-308

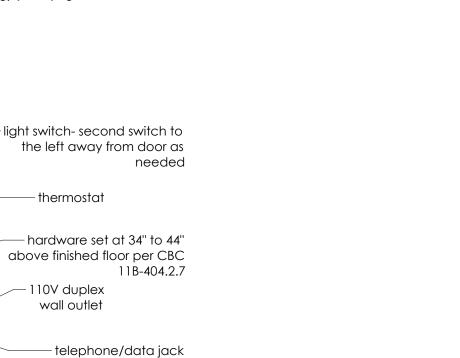
1 Reach Ranges 11B-308 A11.1 1/2" = 1'-0"



Obstructed High Forward Reach



Obstructed High Forward Reach



knee/toe clearance

24"

8" min

1/2"

5

3/4" backsplash w/

-3/4" x 3" stretcher, typ.

Accessible compliant

stainless steel sink w/

3/4" plastic laminate

adjacent drawers

1/4" melamine

back, typ.

required

hinge, typ.

false front to align with

All piping to be covered

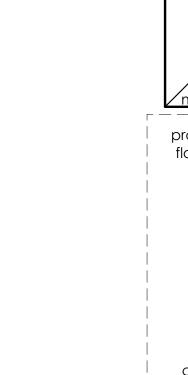
and/or insulated as

rameless concealed

offset drain

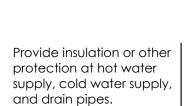
1/4" radius cove

3/4" countertop



Plan





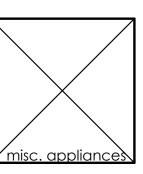






provide 30"x48" clr floor space at all appliances

clr floor spaces may overlap



operable parts to comply with reach ranges per CBC 11B-308. See detail

Note: Appliance doors and latching devices shall not be required to comply with CBC 11B-309.4

Note: Bottom-hinged appliance doors , when in the open position, shall not be required to comply with CBC 11B-309.3

Elevation

Specific Appliance Notes:

Dishwashers: Position clr floor space adjacent to door such that the door, when open, shall not obstruct the clear floor or ground space for the dishwasher or sink

Oven: For side-hinged ovens, position clr floor space adjacent to the latch side For bottom hinged ovens, position clr floor space adjacent to one side of the door

Refrigerator/Freezer: at least 50% of the freezer space shall be 54" maximum AFF. Position clr floor space for a parallel approach with the centerline of the clr floor space offset 24" max from the centerline

Washer/Dryers: position clr floor space for parallel approach, centered on the appliance.

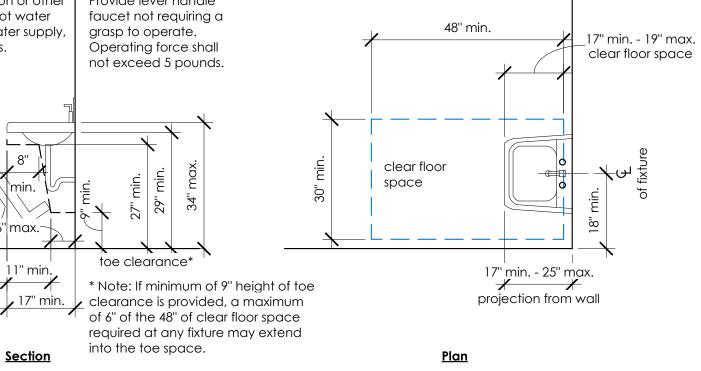


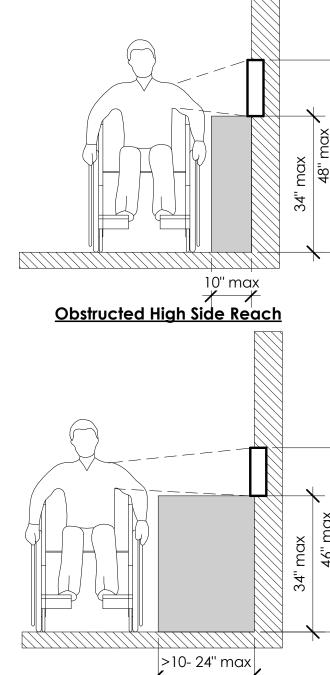
777773

10" max

 \mathbf{X}

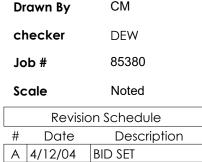
Unobstructed Side Reach











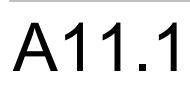


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Accessibility Standards 2



un Un	description of building elements	NUMBER AND TYPE OF FASTER
	Blocking between ceiling joists, rafters or trusses to top plate or other framing below.	ROOF 4-8d box (2-1/2" x 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0.
	Each end, toenail Blocking between rafters or truss not at the wall top plate, to rafter or truss. Each end,	or 3-3"14 gage staples, 7/16" crown 2-8d common (2-1/2" × 0.131") 2-3" × 0.131" nails 2-3" 14 gage staples
	toenail Blocking between rafters or truss not at the wall top plate, to rafter or truss. End nail	2-16 d common (3-1/2" × 0.162") 3-3" × 0.131" nails 3-3" 14 gage staples
	Flat blocking to truss and web filler. Face nail	16d common (3-1/2" × 0.162") @ 6" o.c., 3" × 0.131" nails @ 6" o.c., 3" × 14 gage s
	Ceiling joists to top plate. Each joist, toenail	4-8d box (2-1/2" x 0.113"); or 3-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0 or 3-3" 14 gage staples, 7/16" crown
	Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1). Face nail	3-16d common (3-1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails;
	Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table	Per Table 2308.7.3.1
	2308.7.3.1). Face nail Collar tie to rafter. Face nail	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-
	Rafter or roof truss to top plate (See Section 2308.7.5, Table 2308.7.5). 2 toenails on one side and 1 toenail on opposite side of rafter or truss (c)	3-10 common (3" × 0.148"); or 3-16d box (3-1/2" × 0.135"); or 4-10d box (3" × 0.12 crown
	Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam. End nail	2-16d common (3-1/2" × 0.162"); or 3-16d box (3-1/2" × 0.135"); or 3-10d box (3" >
	Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam. Toenail	or 3-3" 14 gage staples, 7/16" crown 3-10d common (3-1/2" × 0.148"); or 4-16d box (3-1/2" × 0.135"); or 4-10d box (3" or 4-3" 14 gage staples, 7/16" crown WALL
	Stud to stud (not at braced wall panels). 24" o.c. face nail	16d common (3-1/2" × 0.162");
	Stud to stud (not at braced wall panels). 16" o.c. face nail	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown
	Stud to stud and abutting studs at intersecting wall corners (at braced wall panels). 16" o.c. face nail	16d common (3-1/2" × 0.162")
	Stud to stud and abutting studs at intersecting wall corners (at braced wall panels). 12" o.c. face nail	16d box (3-1/2" × 0.135"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crowr
)	Built-up header (2" to 2" header). 16" o.c. each edge, face nail	16d common (3-1/2" × 0.162")
	Built-up header (2" to 2" header). 12" o.c. each edge, face nail	16d box (3-1/2" × 0.135")
	Continuous header to stud. Toenail Top plate to top plate. 16" o.c. face nail	4-8d common (2-1/2" × 0.131"); or 4-10d box (3" × 0.128"); or 5-8d box (21/2" x 0. 16d common (31/2" × 0.162")
	Top plate to top plate.12" o.c. face nail	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown
	Top plate to top plate, at end joints. Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)	8-16d common (3-1/2" × 0.162"); or 12-16d box (3-1/2" x 0.135"); or 12-10d box (3 12-3" 14 gage staples, 7/16" crown
	Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels).	16d common (3-1/2" × 0.162")
	16" o.c. face nail Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels).	
	12" o.c. face nail	16d box (3-1/2" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown
,	Bottom plate to joist, rim joist, band joist or blocking at braced wall panels. 16" o.c.face nail	2-16d common (3-1/2" × 0.162"); or 3-16d box (31/2" × 0.135"); or 4-3" × 0.131" no
	Stud to top or bottom plate. Toenail	3-16d box (3-1/2" x 0.135"); or 4-8d common (2-1/2" × 0.131"); or 4-10d box (3" × or 4-8d box (2-1/2" x 0.113"); or 4-3" 14 gage staples, 7/16" crown
	Stud to top or bottom plate. End nail	2-16d common (3-1/2" × 0.162"); or 3-16d box (3-1/2" x 0.135"); or 3-10d box (3" >
,	Top plates, laps at corners and intersections. Face nail	or 3-3" 14 gage staples, 7/16" crown 2-16d common (3-1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails;
	1" brace to each stud and plate. Face nail	3-8d box (2-1/2" x 0.113"); or 2-8d common (2-1/2" × 0.131"); or 2-10d box (3" × 0
		or 2-3" 14 gage staples, 7/16" crown
	1" × 6" sheathing to each bearing. Face nail	3-8d box (2-1/2" x 0.113"); or 2-8d common (2-1/2" × 0.131"); or 2-10d box (3" × 0
	1" × 8" and wider sheathing to each bearing. Face nail	3-8d common (2-1/2" × 0.131"); or 3-8d box (2-1/2" × 0.113"); or 3-10d box (3" × 0 Wider than 1" × 8" 3-8d common (2-1/2" × 0.131"); or 4-8d box (2-1/2" × 0.113");
		or 4-1-3/4" 16 gage staples, 1" crown
		FLOOR 4-8d box (2-1/2" × 0.113"); or 3-8d common (2-1/2" × 0.131"); or floor 3-10d box (3
	Joist to sill, top plate, or girder. Toenail	or 3-3" 14 gage staples, 7/16" crown
	Rim joist, band joist, or blocking to top plate, sill or other framing below. 4" o.c., toenail	
2	Rim joist, band joist, or blocking to top plate, sill or other framing below. 6" o.c., toenal	8d common (2-1/2" × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14
}	1" × 6" subfloor or less to each joist. Face nail	3-8d box (2-1/2" × 0.113"); or 2-8d common (2-1/2" × 0.131"); or 3-10d box (3" × 0
1 5	2 subfloor to joist or girder. Blind and face nail	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162")
	2" planks (plank & beam — floor & roof). Each bearing, face nail Built-up girders and beams, 2" lumber layers. 32" o.c., face nail at top and bottom	3-16d box (3-1/2" × 0.135"); or 2-16d common (3-1/2" × 0.162")
	staggered on opposite sides	20d common (4" × 0.192")
•	Built-up girders and beams, 2" lumber layers. 24" o.c. face nail at top and bottom staggered on opposite sides	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown
	Built-up girders and beams, 2" lumber layers. Ends and at each splice, face nail	And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails 3-16d common (3-1/2" × 0.162"); or 4-16d box (3-1/2" × 0.135"); or 4-10d box (3" >
7	Ledger strip supporting joists or rafters. Each joist or rafter, face nail	7/16" crown
}	Joist to band joist or rim joist. End nail	3-16d common (3-1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails;
)	Bridging or blocking to joist, rafter or truss. Each end, toenail	2-8d common (2-1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; o
)	WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF AN 3/8" — 1/2" [Edge/Intermediate Supports (inches) 6/12]	D INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING 6d common or deformed (2" × 0.113"); or 2-3/8" × 0.113" nail (subfloor and wall)
	3/8" - 1/2" [Edge/Intermediate Supports (inches) 6 (e)/6 (e)]	8d common or deformed (2-1/2" × 0.131"× 0.281" head) (roof) or RSRS-01 (2-3/8
	3/8" — 1/2" [Edge/Intermediate Supports (inches) 4/8]	1-3/4" 16 gage staple, 7/16" crown (subfloor and wall)
	3/8" — 1/2" [Edge/Intermediate Supports (inches) 3 (f)/3 (f)]	2-3/8" × 0.113"× 0.266" head nail (roof) 1-3/4" 16 gage staple, 7/16" crown (roof)
	$\frac{19/32'' - 3/4''}{19/32'' - 3/4''} $ [Edge/Intermediate Supports (inches) 6/12]	8d common (2-1/2" × 0.131"); or deformed (2" × 0.113") (subfloor and wall)
	19/32" — 3/4" [Edge/Intermediate Supports (inches) 6 (e)/6 (e)] 19/32" — 3/4" [Edge/Intermediate Supports (inches) 4/8]	8d common or deformed (2-1/2" × 0.131" × 0.281" head) (roof) or RSRS-01 (2-3/8 2-3/8" × 0.113"× 0.266" head nail; or 2" 16 gage staple, 7/16" crown
	7/8" — 1-1/4" [Edge/Intermediate Supports (inches) 6/12]	10d common (3" × 0.148"); or deformed (2-1/2" × 0.131" × 0.281" head)
	1/0" fiberboard shoathing /b) [Edge //starsed shot for the Control of Control	OTHER EXTERIOR WALL SHEATHING
	1/2" fiberboard sheathing (b) [Edge/Intermediate Supports (inches) 3/6]25/32" fiberboard sheathing (b) [Edge/Intermediate Supports (inches) 3/6]	1-1/2" × 0.120", galvanized roofing nail (7/16" head diameter); or 1-1/4" 16 gage 1-3/4" × 0.120" galvanized roofing nail (7/16" diameter head); or 1-1/2"
		NELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING
	3/4" and less [Edge/Intermediate Supports (inches) 6/12]	8d common (2-1/2" × 0.131"); or deformed (2" × 0.113"); or deformed (2"
	7/8" — 1" [Edge/Intermediate Supports (inches) 6/12] 1-1/8" — 1-1/4" [Edge/Intermediate Supports (inches) 6/12]	8d common (2-1/2" × 0.131"); or deformed (2-1/2" × 0.131"); or
		PANEL SIDING TO FRAMING
	1/2" or less [Edge/Intermediate Supports (inches) 6/12] 5/8" [Edge/Intermediate Supports (inches) 6/12]	6d corrosion-resistant siding (1-7/8" × 0.106"); or 6d corrosion-resistant casing (2" 8d corrosion-resistant siding (2-3/8" × 0.128"); or 8d corrosion-resistant casing (2-
		INTERIOR PANELING
	1/4" [Edge/Intermediate Supports (inches) 6/12]	4d casing $(1-1/2'' \times 0.080'')$; or 4d finish $(1-1/2'' \times 0.072'')$
<u></u>	3/8" [Edge/Intermediate Supports (inches) 6/12]	6d casing (2" × 0.099"); or 6d finish (2" × 0.092") (Panel supports at 24 inches)
	: All fasteners attached to pressure treated material shall be hot-dip galvanized (per ASTN 2022§ 2304.10.2.1]	n A 1933, stainless steel, silicon pronze, or copper material. Includes: anchor bolts,
	Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For permitted to be common, box or casing.	or nailing of wood structural panel and particleboard diaphragms and shear wa
	Spacing shall be 6 inches on center on the edges and 12 inches on center at intermedia	ate supports for nonstructural applications. Panel supports at 16 inches (20 inche
	unless otherwise marked).	
	Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this sc	neutre and the centry joist is rasiened to the top plate in accordance with this
	permitted to be reduced by one nail.	
	permitted to be reduced by one nail. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.	
5/3/2024 3:04:23 PM	RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667. Tabulated fastener requirements apply where the ultimate design wind speed is less tha	e ultimate design wind speed is greater than 130 mph in Exposure B or greater the signed per the AWC NDS.

NER
.128"); or 3-3" × 0.131" nails;
taples @ 6" o.c
128"); or 3-3" × 0.131" nails;
or 4-3" 14 gage staples, 7/16" crown
3" 14 gage staples, 7/16" crown
8"); or 4-3" × 0.131 nails; or 4-3" 14 gage staples, 7/16"
< 0.128"); or 3-3" × 0.131" nails;
< 0.128"); or 4-3" × 0.131" nails;
113")
" × 0.128"); or 12-3" × 0.131" nails; or
ils; or 4-3" 14 gage staples, 7/16" crown
0.128"); or 4-3" × 0.131" nails;
· · · · · · · · · · · · · · · · · · ·
: 0.128"); or 3-3" × 0.131" nails;
or 3-3" 14 gage staples, 7/16" crown
.128"); or 2-3" × 0.131" nails;
.128"); or 2-1-3/4" 16 gage staples, 1" crown
.128"); or 3-1-3/4" 16 gage staples, 1" crown
pr 3-10d box (3" × 0.128");
3" × 0.128"); or 3-3" × 0.131" nails;
gage staples, 7/16" crown
.128"); or 2-1-3/4" 16 gage staples, 1" crown
; or 3-3" 14 gage staples, 7/16" crown < 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples,
-0.120), or -0.101 mails, or 4-5-14 gage staples,
or 4-3" 14 gage staples, 7/16" crown
r 2-3" 14 gage staples, 7/16" crown
G TO FRAMING
' × 0.113") nail (roof) (d)
" × 0.113") nail (roof) (d)
staple with 7/16" or 1" crown
6 gage staple with 7/16" or 1" crown
' × 0.120")
× 0.120")
0.120")
× 0.099")
1/2" × 0.113")
hold-down anchors, plywood edge nails, etc.
lls, refer to Section 2305. Nails for wall sheathing are
s if strength axis in the long direction of the panel,
schedule, the number of toenails in the rafter shall be
f framing and to intermediate supports within nan 110 mph in Exposure C. Spacing exceeding
nod by generated and in the second
ned by acceptable engineering practice

<u>Reinforcing Steel:</u>

- 1. Reinforcing steel shall conform to the requirements of ASTM 615. Reinforcing steel shall be Grade 60 (Fy = 60 ksi) deformed bars for all bars #4 and larger including bars used for concrete walls, beams or columns. Reinforcing may be grade 40 (Fy = 40 ksi) deformed bars for all bars #3 and smaller unless otherwise noted on plans. Reinforcing shall be bent cold. Bars are allowed only one bend per detail, no straightening and re-bending is allowed.
- 2. Lap splices of reinforcing steel in concrete shall be according to ACI 318 Chapter 25 or lap schedule where present, unless otherwise noted. Stagger splices a minimum of one lap length. No tack welding of reinforcing bars is allowed. The latest ACI code and detailing manual apply. Provide bent corner bars to match and lap with horizontal bars at all corners and intersections per typical details. Vertical bars shall be spliced at or near floor lines. Splice top bars at center line of span and bottom bars at the...
- 3. Mechanical splice couplers shall have current ICBO approval and shall be capable of developing 125% of the bar strength.
- 4. Welding of reinforcing bars, metal inserts, and connections shall conform to AWS D.4, and shall be made only at locations shown on the plans or details. All reinforcing to be welded shall be ASTM A706, Grade 60 weldable steel.
- 5. Reinforcing bar spacing shown on plans are maximum on centers. All bars shall be detailed and placed per CRSI specifications handbook. Securely tie all bars in location prior to concrete placement.

<u>Structural Steel:</u>

1. Structural steel members shall conform to the following minimum standards and

material properties		
<u>Shape</u> W,WT	<u>Standard/Grade</u> ASTM A992 Grade 50	<u>Fy</u> 50 ksi
Channels & Angles Bars and Plates	ASTM A36 ASTM A36 ASTM A500 (Crada B)	36 ksi 36 ksi 42 ksi
HSS (round) HSS (rectangular)	ASTM A500 (Grade B) ASTM A500 (Grade B)	42 ksi 46 ksi
Cold Formed Shapes Bolts Nuts	ASTM A570 ASTM A325 ASTM A563	33 ksi
Hardened Steel Washers	ASTM F436	
Load Indicator Washers	ASTM F959	
Anchor Bolts	ASTM F1554	36 ksi
Shear Studs	ASTM A108 (type B)	
Threaded Rod	ASTM A36	36 ksi
	ASTM F959	
	ASTM F1554	
	ASTM A108 (type B)	
All holts shall be installed as	bearing type connections with	the threads included

- 2. All bolts shall be installed as bearing type connections with the threads included in shear planes (type "N" connection unless otherwise noted). All high strength bolts shall be fully pretensioned using load indicator washers or appropriate torque wrench. Foundation anchor bolts do not need to be pretensioned.
- 3. All galvanized bolts and nuts shall be of the same process as specified in the plans. Mixing of hot dipped galvanized bolts with mechanically galvanized nuts is prohibited.
- 4. All structural and miscellaneous steel shall be fabricated and erected in accordance with the latest edition of AISC specifications for design, fabrication and erection.
- 5. Welding shall be performed by welders holding valid certificates and having current experience in the type of welding shown on the plans. All welding shall use E70XX low hydrogen electrodes or 70ksi weldable wire unless otherwise noted on the plans. Shop welding may use 70ksi weldable wire. All welds involving reinforcing bars shall use E7018 electrodes. All welding shall conform to the latest edition of American Welding Society Standards. No tack welding of ASTM A325 or ASTM A490 bolts.
- 6. Grout beneath column bases or bearing plates shall be 5,000 psi (min) non-shrink flowable grout or drypack. Install grout under bearing plates before framing members are installed have been plumbed but prior to floor or roof installation. Grout depth shall be sufficient to allow grout or drypack to be placed beneath plate without voids (1-1/2" typical).

	•
	Retaining
	Max. Water
	Concrete S
2.	Concrete n
3.	All concret to ASTM C3
4.	Portland Ce
5.	No more th by Enginee
6.	Concrete n necessary forms befor steel or gre properties o subgrade n
7.	All items to conduits, e
8.	Concrete s square feet enclosed a
9.	Pipes shall r Engineer. <i>N</i> spacing sho
10.	Protect cor concrete, i

Fou	Jndo
1.	Excave constru of the 2
2.	Geoteo · Allo · Allo
3.	All foot noted
4.	Conve Geotee moister taken o materio
5.	Backfill until af system:
6.	Adequ provide
7.	Backfill or adjo
8.	Founda the rec excave

<u>Concrete:</u> 1. Min. 28 day compressive strength

	Slabs on Grade	2500 psi
	Footing	2500 psi desig
	Retaining Walls	2500 psi design
٩c	x. Water to Cement Ratio	0.50
c)	ncrete Slump	4''-6''

mix designs shall be done by a certified laboratory and approved by the Engineer.

ete shall be regular weight of 145-150 pounds per cubic foot using aggregates conforming C33. Water shall be clean and potable.

Cement shall be Type II and conform to ASTM C150.

than 90 minutes shall elapse between concrete batching and placement, unless approved er or Authorized Testing Agency.

mixing, transport, & placement shall be per ACI 304. Mechanically vibrate all concrete as when placed to achieve a uniform placement minimizing voids. Remove all debris from ore placing concrete. Concrete shall not be allowed to be dropped through reinforcing eater than 5 feet or any situation that may adversely affect the air entrainment or structural s of the concrete. Care must be taken when placing slabs on grade as to not disturb the material.

o be cast in concrete such as reinforcing steel, ducts, anchor bolts, dowels, pipes, sleeves, etc., shall be securely fastened to prevent movement during the concrete placement. slab on grade control joints shall be placed such that the enclosed area is less than 150 et(~12' x 12'), unless otherwise stated on plans or an approved mix design allowing greater area is approved.

I not be embedded in structural concrete unless stated on the plans or approved by the Maximum pipe size shall be 1/3 of the slab thickness, located at mid-depth. Minimum hall 3 times the pipe diameter. Pipes/sleeves shall not impair the strength of the member.

oncrete from hot or cold weather conditions, which can reduce strength or damage in accordance with ACI 305 and 306.

11. Anchor bolts for general use and at hold down locations shall be ASTM F1554 Gr. 36 bolts, with A563 Grade A heavy hex nuts & F436 Type I washers.

<u>lation:</u>

ations and soil work, including all required inspections during ruction, shall comply with the requirements of Chapter 18 e 2022 CBC

echnical parameters used for foundation design: owable Net Soil Beaing..... ..1500 psf owable Passive Soil Pressure.....100 pcf

otings shall extend below grade the minimum embedment depth as on plans. Grade shall be defined as the lowest of the following: building pad subgrade lowest surrounding soil grade within 5'-0" of the building

entional concrete slabs on grade shall be supported per the echnical Report if provided. Fill material or subgrade material shall be ened, but not saturated, prior to concrete placement. Care shall be as to not damage the integrity of the fill or subgrade rial/preparation.

lling against foundation walls or exterior walls shall not commence after the top of the walls are restrained by the completed floor or roof

uate drainage away from structural wall or foundation shall be ded by Contractor as required.

ill and re-compaction of all trenches prior to any construction above jacent to trench is to be done per soils report (min. 95% compaction). dation excavations should be properly prepared in accordance with commendations of the geotechnical engineer. All footing and pier vations should be observed by a representative of of the

geotechnical engineer prior to placement of reinforcing steel, in order to examine competency of soils.

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Scal	e	Noted
	Revision	Schedule
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A 4/12/04 BID SET



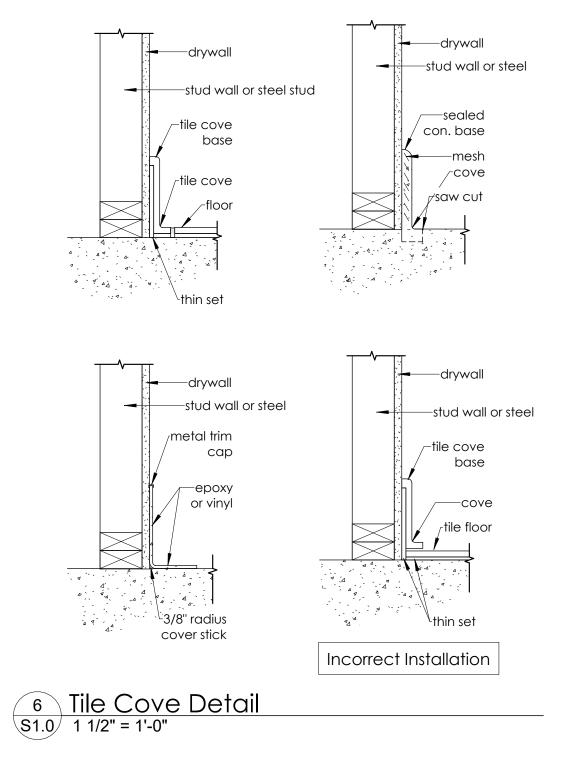
2132 N El Dorado St Stockton, CA 95204 (209) 227-7646

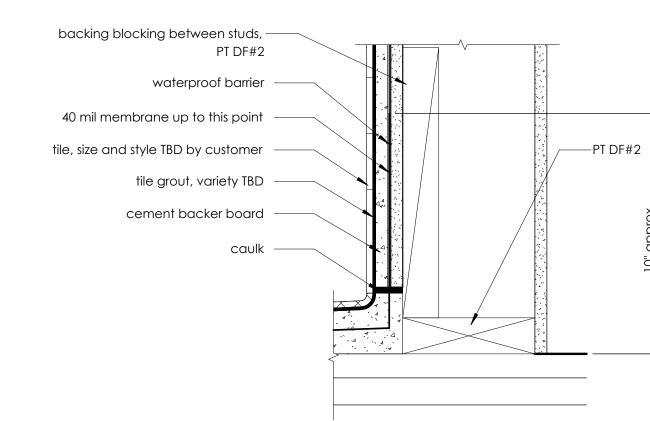


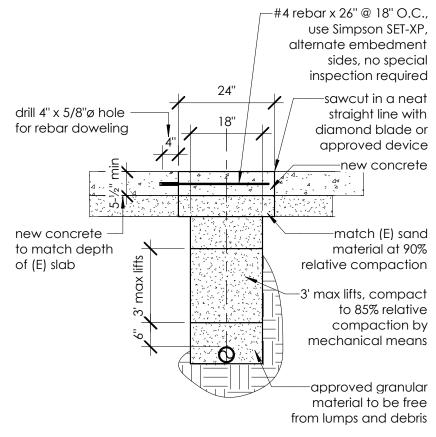
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> Structural Notes

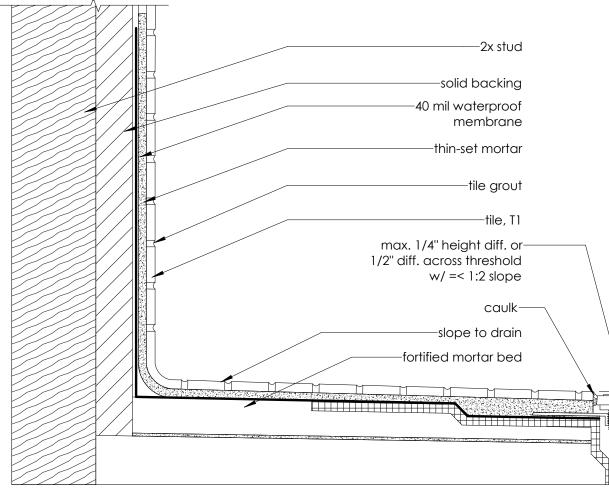




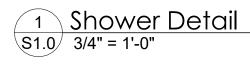


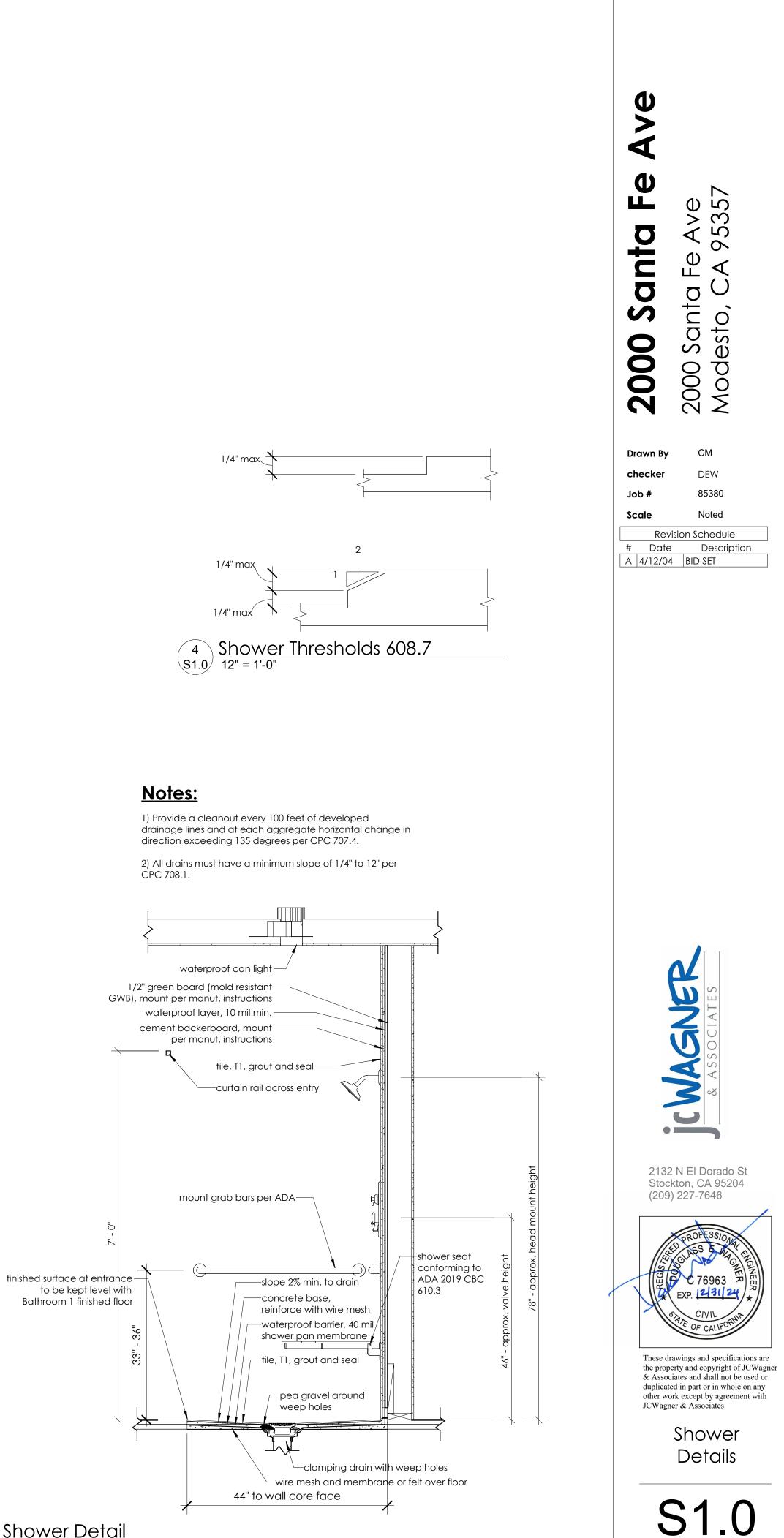


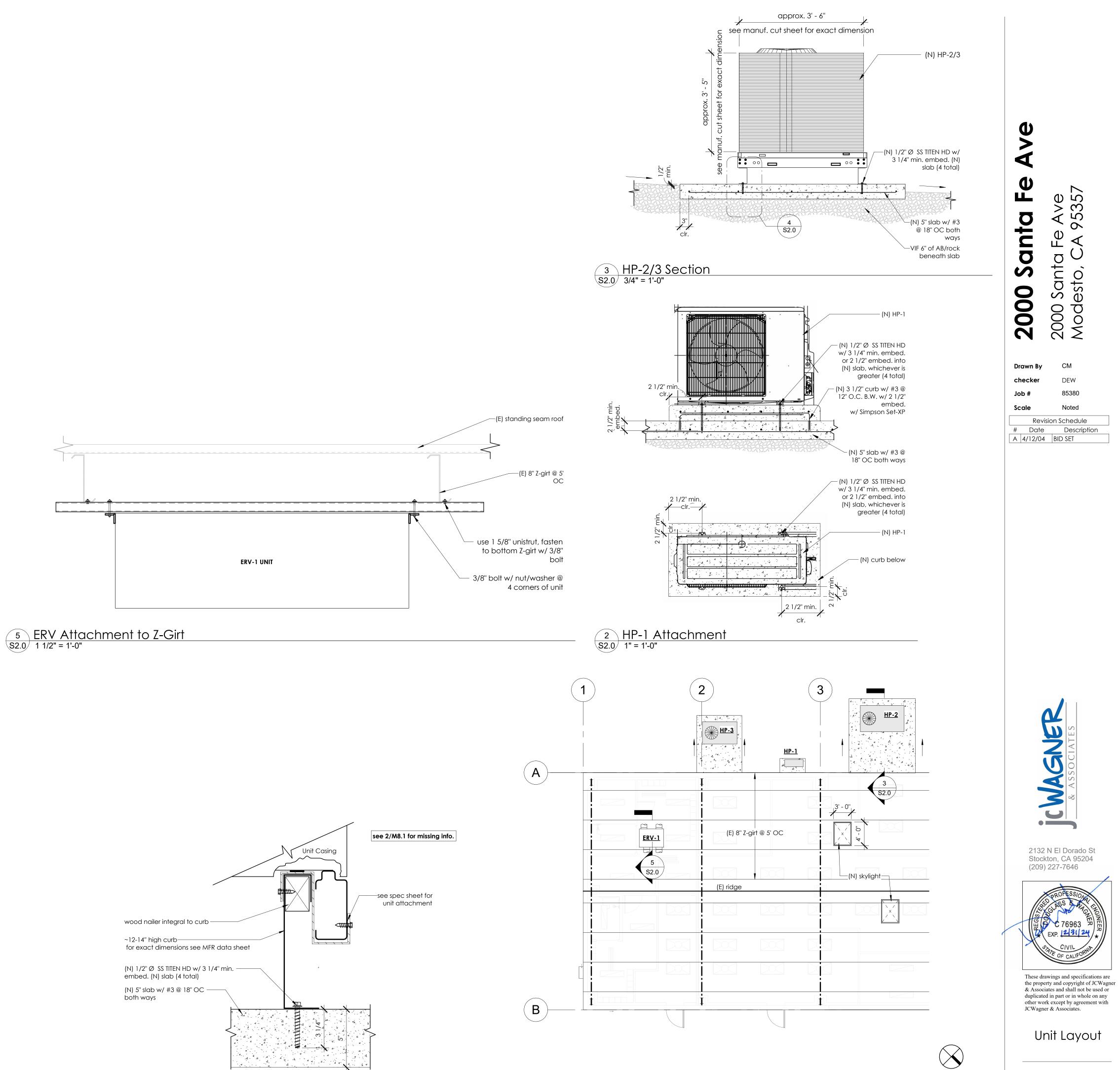




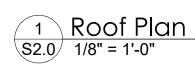




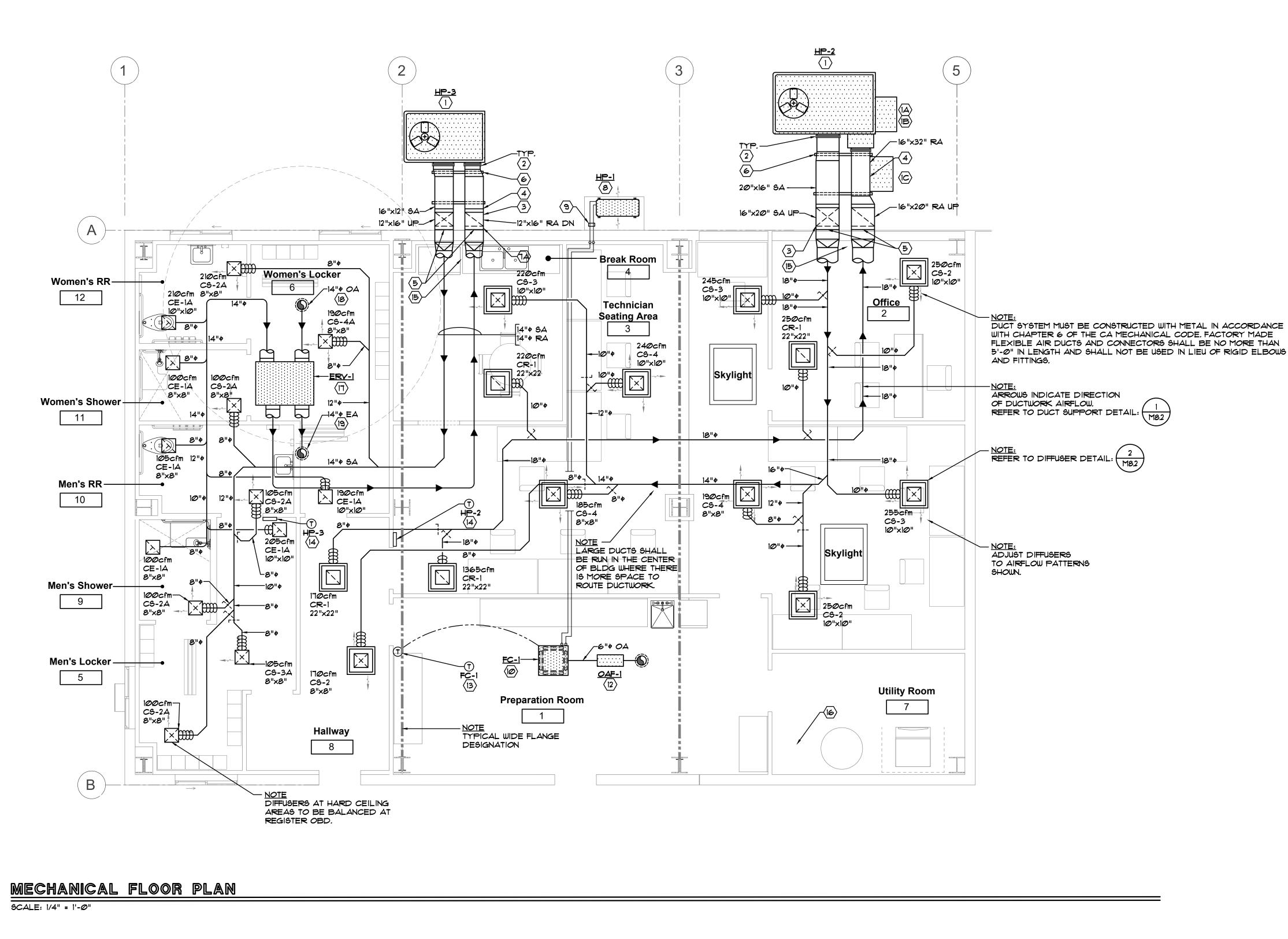


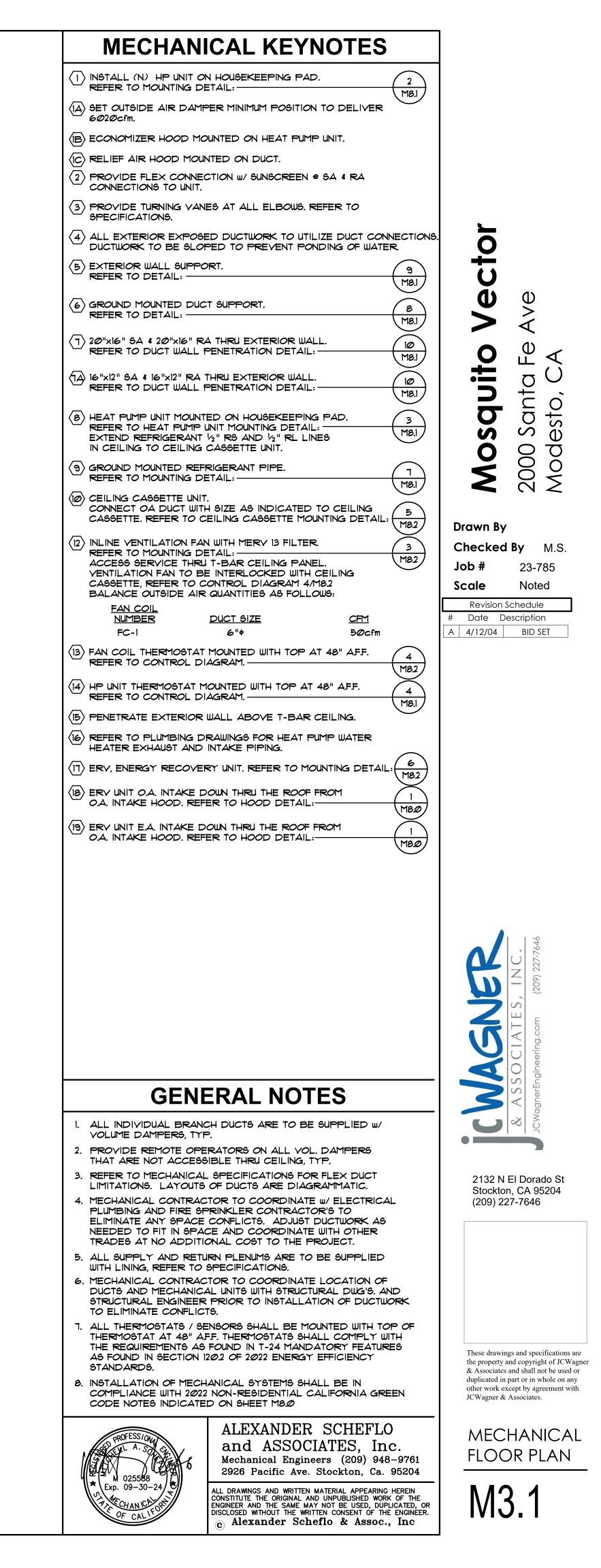


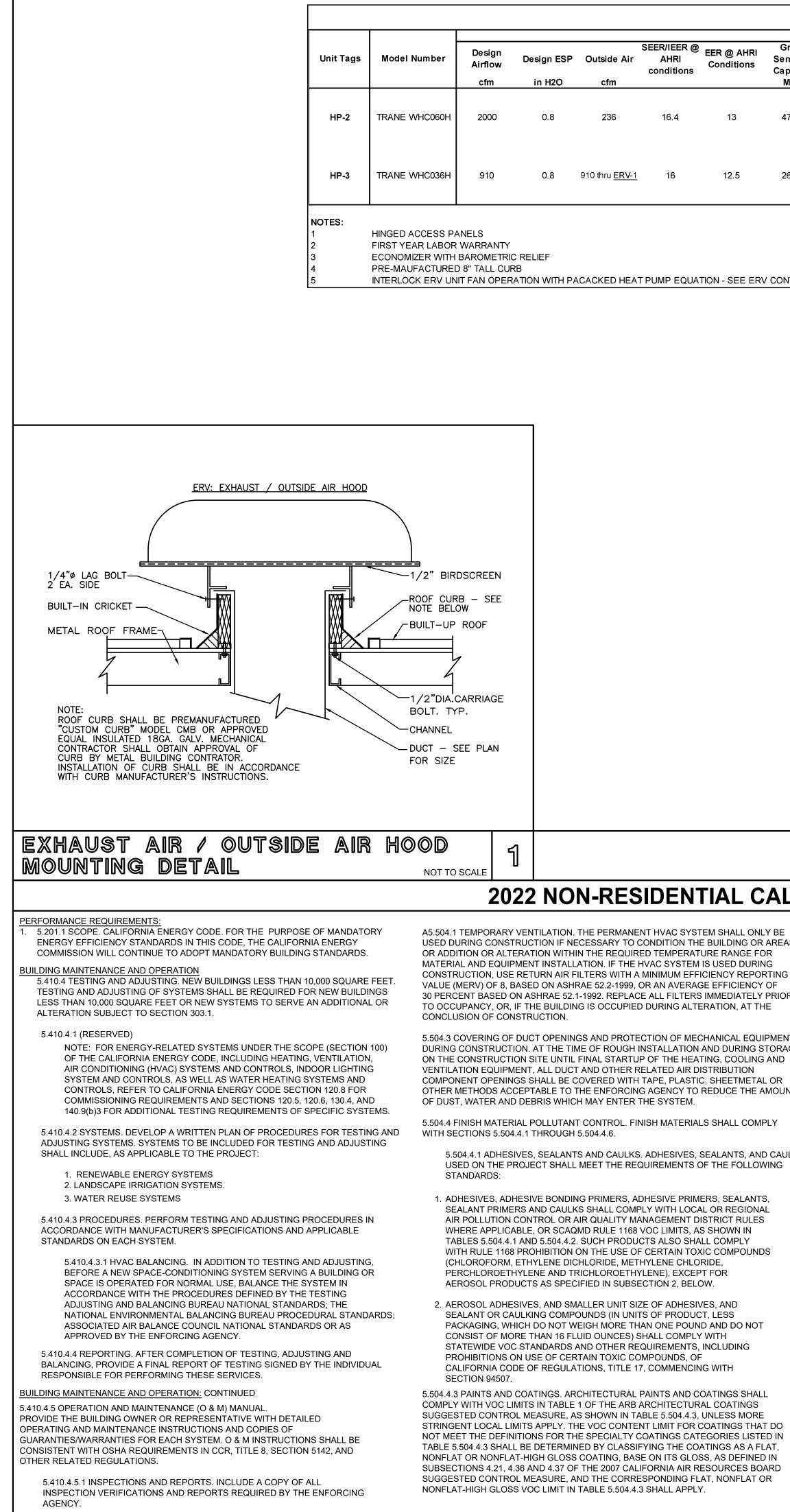












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	MBh	MBh	F	F	F	F	temp F	MBh	F	F		MBh	power bhp		A	Α	lb	A	VOLTAGE		MOCF		
13	47.11	56.62	105	80	67	59.73	30	42.41	70	19.64	6 kW	20.49	0.78	208-230/60/3	43	50	678	12.5	208-230/3	8	14.4	1,2,4	
12.5	26.56	33.54	105	80	67	60.89	30	22.99	70	17.74	6 kW	20.49	0.52	208-230/60/3	36	40	514	12.5				1,2,3,4,5	
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ION - SEE ERV	CONTROL [DIAGRAM 11/M8	3.1																				
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					F		NE/MITSUBISH A0A0121EA80/		53	50	- 14.0 12.	.80 40 10	D.68 12.0	2 <u>6.9</u> 6.4 FLA	.28 –				.28 1.0 20	08/ 1 30 1	OPER. WT.= 4	"	ant to,
					н		NE/MITSUBISH ZAO12KA70NA				TO MATCH FA	AN COIL UNIT		— FLA			.50	12.0 7.0	7.5 11.0 20	08/ 1 C	OPER. WT.=	105#	S S S S S
		MAKE &			FA	N EQU	JIPMER		HEDULI									AIRE ERV E10IN: E	SCHEDU	LE			2000 Mod
	MAF OAF	RK MODEL		CONTROL RLOCK WITH COIL SEE DETA 8.2			S.P. RPM 40	SONES		AD VOLTS	Ø REFERI				in D	-	SPE	CIFICATIONS		Options:		_	
	FAI	N EQUIPM		8.2											2		Airfiov	late, heat and humidity tr Range: 250–1100 CFM 060 Certified Core: 25-65	(DESIGN-910cfr	860W 460V/3Ph/60Hz Fused disconnect	(Advanced), 60Hz (Advanced), (Advanced)		Drawn By Checked By M.S.
	KE	PROVIDE OUT	SCHEDUL			MARK	MAKE	MODEL					REMARKS	-	n	14	Non-fu 24VAC Cross-	rd Features: sed disconnect transformer/relay packag core differential pressure indent blower control	ports	Integrated programmable Bypass economizer damp dry-bulb temperature enthalpy controls (opti- Class 1 low leakage moto	ver (see DIM drawing): controls (standard), on) prized isolation dampers:	nium	Job # 23-785 Scale Noted
		THE FOLLOWI	NG OPTIONS: WIRING DIAC	: GRAM 4/M8.2		CS-2	NAILOR		L SEE PLAN		MOUNTING T- PA CEILING Y		(SEE BELOW) W/ AW APPL WHITE FINISH	ANCE			Unit W	2. MERV 13: 2 eight: 10 lbs., varies by option(s)		FA, EA or both airstreau Factory mounted filter ala Double wall construction Exterior paint: white, custo Accessories:	rms: both airstreams	_	Revision Schedule # Date Description
		2. PROVIDE S BALANCE				CS-3	NAILOR	7500-0-	-L SEE PLAN		CEILING Y		W/ AW APPL WHITE FINISH	ANCE	Energy recovery core is A	NHRI Certified [®]	60" L 2 385 lb: Motor			Filters: MERV 13, 2" (ship) Backdraft damper: 12" Automatic balancing dam Hooded wall vent 12": gal Potentiometer speed cont	per: 4", 5", 6" Ivanized, paintable galvan	ineal	A 4/12/04 BID SET
		 3. PROVIDE W 5. ACCESS TH 				CS-4	NAILOR			<u>+</u> -		ES TES	W/ AW APPL WHITE FINISH W/ AW APPL	ANCE		TIFIED®		370W ea., Direct drive EC eller packages (208–230)	V/1Ph/60Hz)	Digital time clock: wall mo in exterior enclosure (1 Carbon dioxide sensor/con wall mount (CO2-W), d IAQ sensor: wall mount (IA	ount (TC7D-W), TC7D-E) ntrol: Juct mounit (CO2-D)	b	
		J. AUCESS IF	IKU I-DAK	FANEL.		CR-1 CS-2A	NAILOR	6145H 7500-0-	24"x24" -S SEE PLAN				WHITE FINISH W/ AW APPL WHITE FINISH	6	Ale-Co-Ale ERV HAR Standard 1060 Harry Reservey Driventert is callinge, Act activated equational intervents	tes f partameter				Motion occupancy sensor, celling mount (MC-C), Smoke detector: duct mou BACnet fan control: wall n Indoor electric duct heate	/control: wall mount (MC-W) unt (SD-D) nount (BACNETFC-W)		
						CS-3A	NAILOR	7500-0-	-S SEE PLAN		CEILING	NO YES	W/ AW APPL WHITE FINISH							EK series (1–175 kW); Indirect gas-fired duct fun Installed downstream Hanging bracket kit Hanging spring vibration i	nace: GH series (50–400 l of any fans	MBH);	
						CS-4A CE-1A	NAILOR	7500-0- 5145H	-S SEE PLAN	- 			W/ AW APPL WHITE FINISH W/ AW APPL	1.0	EC MOTOR O	<u> 13 31 1 3 - 13 19</u>	IGE AND FAN P	ERFORMANCE		Duct flange kit: square 14	" x 14", 2 flanges	_	
													WHITE FINISH		40 (15)	HELUMENT HEAT CANAL	- 09/200		flow	MOTOR 1P/120V Options Advanc External Static Pressure	ed EC Unit Power Consumption		
																1		21	00	(inches Water Column) 3.00 3.00	(Watts) 673 989	_	
															1 1		~	5	95 80 75 70	2.73 2.45 2.13 1.80	1027 1060 1087 1105		
		ORNIA	GRE															9	65 60 155	1.46 1.11 0.75	1113 1113 1103		
											ORING IN CLAS			- ,	Advanced EC motor	Recommended Operating Range	(DESIGN-910cfr	n)11	50 50 formance includes effect of	0.37 0.00 f clean, standard filter supp	1084 877 Diled with unit.	-	-7646
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CIENCY REPOR E EFFICIENCY C IMMEDIATELY F	TING DF	AND (d)(2) SECTION QUALITY I) OF CALIFORN 94520; AND IN MANAGEMENT	NIA CODE OF RE AREAS UNDER I DISTRICT ADD	EGULATIONS, T THE JURISDIC	ITLE 17, COMM FION OF THE B MPLY WITH TH	/IENCINĜ ŴITH BAY AREA AIR	PR AN	OOF MANNER I D 1829mm) ABC	N EACH CLA OVE THE FLC	HALL BE PERMA	VEEN 3 AND 6 F	EET (916mm		ы. Э			(CFM)	Standard EC kternal Static Un Pressure Con	Pre	Advanced EC		TES,
RATION, AT THE		5.504.4.3.2 VER	IFICATION. VE		COMPLIANCE V	VITH THIS SE	CTION	2. WH CO	NTROL (EMCS)	OR OR SEN	SOR IS NOT INT FOR OR SENSOI	R SHALL DISPL	AY THE CARBO	DN	71	1		200 295	2.95 2.84	Watts) Col 571 3 658 3	Water Constraint (Wa 8.00 67 8.00 80	72 09	
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S SHALL COMPL	Y	5.504.5.3 FILTER OCCUPIED ARE AND RETURN A	AS OF THE BL	JILDING WITH A	IR FILTRATION	MEDIA FOR O	UTSIDE AIR	4. A M AT	IONITOR OR SE MINIMUM 15-MI	ENSOR SHAL	LL MEASURE CA RVALS AND SHA IENTS OF NOT L	LL MAINTAIN A	A RECORD OF F		Standard	Advanced EC motor	Recommend Operating Range	1150 1150		900 0 0	0.59 12: 0.00 87	32	
EALANTS, AND F THE FOLLOWI	CAULKS	(MERV) OF 13. M RECOMMENDA INCLUDED IN TH	TIONS FOR MA	AINTENANCE W	ITH FILTERS OF	THE SAME V		5. A M HAV	ONITOR OR SE /E THE CAPACI	NSOR USED) TO MEASURE (SURE CARBON [CARBON DIOXI	IDE LEVELS SH	ALL		(DE	SIGN-910cfm)-		and the second se	File		Max.	2132 N El Dorado St Stockton, CA 95204
RS, SEALANTS,								6. THE		SENSOR SH	TER. IALL BE CERTIF) 1,000ppm CARI							(EE) Standard	the second s		Amps Pro D 1.73 3.9	20	(209) 227-7646
L OR REGIONAL STRICT RULES SHOWN IN LL COMPLY		THE MANU 5.504.7 ENVIRO	UFACTURER IN		MERV RATING	L. WHERE OU ^T	IDOOR AREAS	NO	MORE FREQUE		THE MANUFACT ONCE EVERY 5		UIRE CALIBRA	ΓΙΟΝ				[AA] Advance	d 680 208-230		5 11.3	15 15	
IC COMPLIA IC COMPOUNDS RIDE, I FOR)	ARE PROVIDED ENTRIES, OUTE AS ALREADY PE	DOOR AIR INTA ROHIBITED BY	AKES AND OPER OTHER LAWS	RABLE WINDOW OR REGULATIO	/S AND WITHII NS; OR AS EN	N THE BUILDING	HVAC, I	OZONE DEPLE	N AND FIRE	REENHOUSE G/ SUPPRESSION												
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T, LESS AND DO NOT WITH		TO INFORM BUI	ILDING OCCUF	PANTS OF THE F	PROHIBITIONS.			5.	508.1.2 HALONS	S. INSTALL H	IVAC, REFRIGER	RATION, AND F	IRE								5588		These drawings and specifications the property and copyright of JCW
NCLUDING G WITH		PROVISIO (VENTILAT	NS OF CALIFC	JRE CONTROL. DRNIA BUILDING APTER 14 (EXTE IS CODE	G CODE, CCR TI	TLE 24, PART	2, SECTIONS 12	202												★ Exp. 09	-30-24		& Associates and shall not be used duplicated in part or in whole on a other work except by agreement w JCWagner & Associates.
OATINGS SHALL		INDOOR AIR QL 5.506.1 OL	JALITY JTSIDE AIR DE	ELIVERY. FOR M)											ALEX	ANDER	SCHEFI	LO	MECHANICA SCHEDULES
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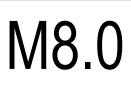
			IKA	INE PA	CKAGE H		UNIT E	KUITMEN	NI 30		_	1.1						B.611/7	B011	B.411	Notes
Bross nsible pacity MBh	Gross Total Capacity MBh	Ambient Temperature F	Cooling EDB	Cooling EWE	3 Cooling LDB F	Heating ambient temp F	Output htg capacity MBh	Heating EAT F	Heating delta T F	Heating capacity	Electric heat output MBh	Indoor mtr operating power bhp	Voltage	MCA	МОР	Min. unit operating weight Ib	Electric Hea FLA A	t POWER EXHAUST VOLTAGE	POWER EXHAUST MCA	POWER EXHAUST MOCP	
.11		<u>г</u>	<u>г</u>	<u>г</u> 67	F 72	<u>-</u>		70	Г 10.64	6 1.147		-	208-230/60/3	A 40	<u> </u>		10.5	208-230/3	8		10.4
11	56.62	105	80	67	59.73	30	42.41	70	19.64	6 kW	20.49	0.78	208-230/60/、	3 43	50	678	12.5	208-230/3	8	14.4	1,2,4
56	33.54	105	80	67	60.89	30	22.99	70	17.74	6 kW	20.49	0.52	208-230/60/3	3 36	40	514	12.5				1,2,3,4
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MAR	MAKE &		ONTROL	ENERGY STAR		S.P. RPM		ECTRICAL C			NOTE RENCE REMAR	RKS					HE10IN: E				
OAF-	1 BROAN FIN-180	B-HW FAN (4/M8	RLOCK WITH COIL SEE DETA 3.2	AIL		ł0 ––	1.0	WATTS 22.		1	OP.WT.:	=15#				Vent	llation Type: plate, heat and humidity			otorized impeller packag iz (Advanced),	
	I EQUIPM						DI	FUSE	r sc	HEDUL	.5			.2	V/	One Stan	1060 Certified Core: 125-G5 dard Features:	(DESIGN-910cfr	 680W 208-230V/1Ph 860W 460V/3Ph/60H Fused disconnect 	n/60Hz (Advanced), Iz (Advanced) le controls: enhanced, pri	
	PROVIDE OUT	SIDE AIR FAN			MARK	MAKE	MODEL				-BAR OBD	REMARKS				24VA Cross Indep	fused disconnect C transformer/relay packa s-core differential pressure eendent blower control rs: 2, MERV 13:	igë 9 ports	dry-bulb temperature enthalpy controls (op Class 1 low leakage mot FA, EA or both airstre	r controls (standard), tion) torized isolation dampers ams	¢.
	THE FOLLOWIN 1. REFER TO WITH 24v	NG OPTIONS: WIRING DIAG TRANSFORME	RAM 4/M8.2		CS-2	NAILOR		L SEE PLAN				(SEE BELOW) W/ AW APPL WHITE FINISH		1		Unit 194-	Weight: 350 lbs., varies by option(s	s)	Factory mounted filter al Double wall construction Exterior paint: white, cus Accessories	tom colors	_
		SPEED CONTR			CS-3	NAILOR	7500-0	L SEE PLAN		CEILING	YES YES	W/ AW APPL WHITE FINISH	IANCE	Energy recovery core is	AHRI Certified®	60" 385 Mote		C motorized	Potentiometer speed con	mper: 4", 5", 6" alvanized, paintable galv htrol: remote installed	anneal
		WITH MERV 1			CS-4	NAILOR		L SEE PLAN			TES TES	W/ AW APPL WHITE FINISH W/ AW APPL		AHRI CE	RTIFIED [®]		peller packages (208–23)	0V/1Ph/60Hz)	Digital time clock: wall n in exterior enclosure Carbon dioxide sensor/co wall mount (CO2-W).	nount (TC7D-W), (TC7D-E) ontrol: duct mount (CO2-D)	
	5. ACCESS IF	HRU T—BAR I	PANEL.		CR-1 CS-2A	NAILOR	6145H 7500-0-	24"x24" S SEE PLAN	+			WHITE FINISH	IANCE	Apt-to-Air ERV AHRI Standard 1060 Energy Recovery Diversitient to cause and in packaged equational may very	fotos di porter masoc				Motion occupancy senso celling mount (MC-C) Smoke detector: duct mo BACnet fan control: wall), wall mount (MC-W) ount (SD-D) mount (BACNETFC-W)	
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					CS-4A	NAILOR	7500-0-	S SEE PLAN		CEILING	NU TES	W/ AW APPL WHITE FINISH		EC MOTOR	PERATING RA	NGE AND FAN I	PERFORMANCE		Hanging spring vibration Duct flange kit: square 1	isolation kit 4" x 14", 2 fianges	
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														16 16+	~		ļ0	CEM)	External Static Pressure (Inches Water Column) 3.00	Unit Power Consumption (Watts)	1
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IFC	ORNIA	GRE	EN CO	DE N	OTES									1	ar an Aria) > 1	800 x000		960 055 1150 1150	1.11 0.75 0.37 0.00	1113 1103 1084 877	
					SOL PAINTS AND N 94522(a)(3) AN		EACH PUBL	C K-12 SCHOÒI	_ CLASSROO	OM, AS LISTED	SSROOMS. (DSA) IN TABLE 120.1	-A OF THE		Advanced EC motor	Recommended Operating Ran	(DESIGN-910ct J ^e	^r m)—/	erformance includes effect of		1	
	REQUIREN COMPOUN	MENTS, INCLU NDS AND OZOM	DING PROHIBI ⁻ NE DEPLETING	TIONS ON USE	OF CERTAIN TO 6, IN SECTIONS 9 TITLE 17, COMM	0XIC 04522(c)(2)	OR SENSOR	THAT MEETS 1	THE FOLLOV	WING REQUIRE	ITH A CARBON I EMENTS. ANENTLY AFFIX				PERATING RAN	IGE AND FAN F	PERFORMANCE		TOR 1P/208-230V Opt	tions	
	SECTION SECTION	94520; AND IN MANAGEMENT	AREAS UNDER	R THE JURISDI	CTION OF THE B	AY AREA AIR	PR(ANI	OF MANNER IN	N EACH CLA VE THE FLO	SSROOM BET	WEEN 3 AND 6 F EAST 5 FEET (15	EET (916mm					(CEM)	(Inches Water Con	sumption (Inch	tes Water Cons	Power umption /atts)
	5.504.4.3.2 VERI		RIFICATION OF	COMPLIANCE	WITH THIS SEC	TION	2. WH COI	EN THE MONIT(ITROL (EMCS),	OR OR SENS	SOR IS NOT IN OR OR SENSO	TEGRAL TO AN OR SHALL DISPL	AY THE CARBO	N	17 II	1		200 295 390	2.95 2.84	571 Co	olumn) (V 3.00 3.00	672 809 953
-	OCUMENTATI		IDE, BUT I SNO	T LIMITED TO,	NG AGENCY. THE FOLLOWIN	G:	EM		N DIOXIDE	READINGS SH	THE SENSOR IS ALL BE AVAILAE)	1	495 580 675	2.50 2.30	813 864	3.00 2.71	822 158 190
		ACTURER'S PE			AINERS		THE	MONITOR WH	EN THE CAF		THROUGH A VIS LEVELS IN THE		DR ON	a the state of the		X	770 865 966	1.60 1.20	900 900	2.05	215 231 239
(OCCUPIED ARE	EAS OF THE BU	ILDING WITH A	AIR FILTRATIO	NGS, PROVIDE F N MEDIA FOR OL	ITSIDE AIR	4. A M		NSOR SHAL		ARBON DIOXIDI ALL MAINTAIN A		PREVIOUS	Standard	Artimated EC motor	Recommend Operating Range	1150 1150		900	0.59	239 232 877
(SF	MERV) OF 13. N RECOMMENDA	MERV 13 FILTE TIONS FOR MA	RS SHALL BE I	NSTALLED PR /ITH FILTERS (EFFICIENCY REP IOR TO OCCUPA DF THE SAME VA	NCY, AND	E CAF 5. A M	BON DIOXIDE	MEASUREM NSOR USED	ENTS OF NOT	LESS THAN 30	DAYS DURATIC DE LEVELS SH	DN. IALL		(Column)	ESIGN-910cfm)		erformance includes effect o	l clean, standard filter si	upplied with unit.	
I		HE OPERATION			AL.		400p	pm TO 2000ppn	n OR GREAT	FER.	DIOXIDE LEVEL						Option	Watts Volts	Hz Phase Fi		Max. vercurrent rotection Device
		1 LABELING. IN UFACTURER IN			CLEARLY LABE	LED BY	ACC AND	JRATE WITHIN	75ppm AND RTIFIED BY T	1,000ppm CAF THE MANUFAC	RBON DIOXIDE (TURER TO REQ	CONCENTRATIO	ON				[EE] Standa [AA] Advanc	480 120 ed 680 208-230	60 Single 60 Single	1.73 3.9 6.5 14.6 5 11.3 1.22 2.7	20 15 15
ŀ	5.504.7 ENVIRO ARE PROVIDED	NMENTAL TOB	ACCO SMOKE G, PROHIBIT SI	(ETS) CONTRO MOKING WITHI	OL. WHERE OUT IN 25 FEET OF BI	JILDING	OUDOOR AIR	QUALITY			SAS REDUCTION	IS INSTALLATI						860 460	60 Three	1.22 2.7	15
/ (AS ALREADY PE DRDINANCES, F	ROHIBITED BY REGULATIONS	OTHER LAWS	OR REGULATI OF ANY CITY,	WS AND WITHIN ONS; OR AS ENF COUNTY, CITY A	ORCED BY ND COUNTY,	HVAC, F		AND FIRE	SUPPRESSION	N EQUIPMENT S										
(\	OR CAMPUS OF VHEN ORDINAN	F THE UNIVERS NCES, REGULA	SITY OF CALIFO	ORNIA, WHICH LICIES ARE NO	LIFORNIA STATE EVER ARE MORE OT IN PLACE, POS	E STRINGENT.). INSTALL HVA(NOT CONTAIN (TION AND						AN AND PROFIL	A. STORAL	
	NDOOR MOIST	ILDING OCCUP <u>URE CONTROL</u> DOOR MOISTU	<u>_</u>		S. HALL MEET OR E	ХСЕЕЛ ТНЕ				•	ERATION, AND F CONTAIN HALO									25588	
	PROVISIO (VENTILAT	ONS OF CALIFO	RNIA BUILDING APTER 14 (EXT	G CODE, CCR ⁻	TITLE 24, PART 2). FOR ADDITION	, SECTIONS 12													CALLER OF	9-30-24	
<u>I</u>	NDOOR AIR QU 5.506.1 OL	<u>JALITY</u> UTSIDE AIR DE	LIVERY. FOR I		Y OR NATURALL)											ALEX	ANDER	SCHEF	LO
	SPACES II	N BUILDINGS I	MEET THE MIN	IMUM REQUIR	EMENTS OF SEC	TION 120.1														ATES,	

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).

ante Ο σ St S S () 000 0 σ Ο S Ž S wn By e**cked By** M.S 23-785 le Noted evision Schedule

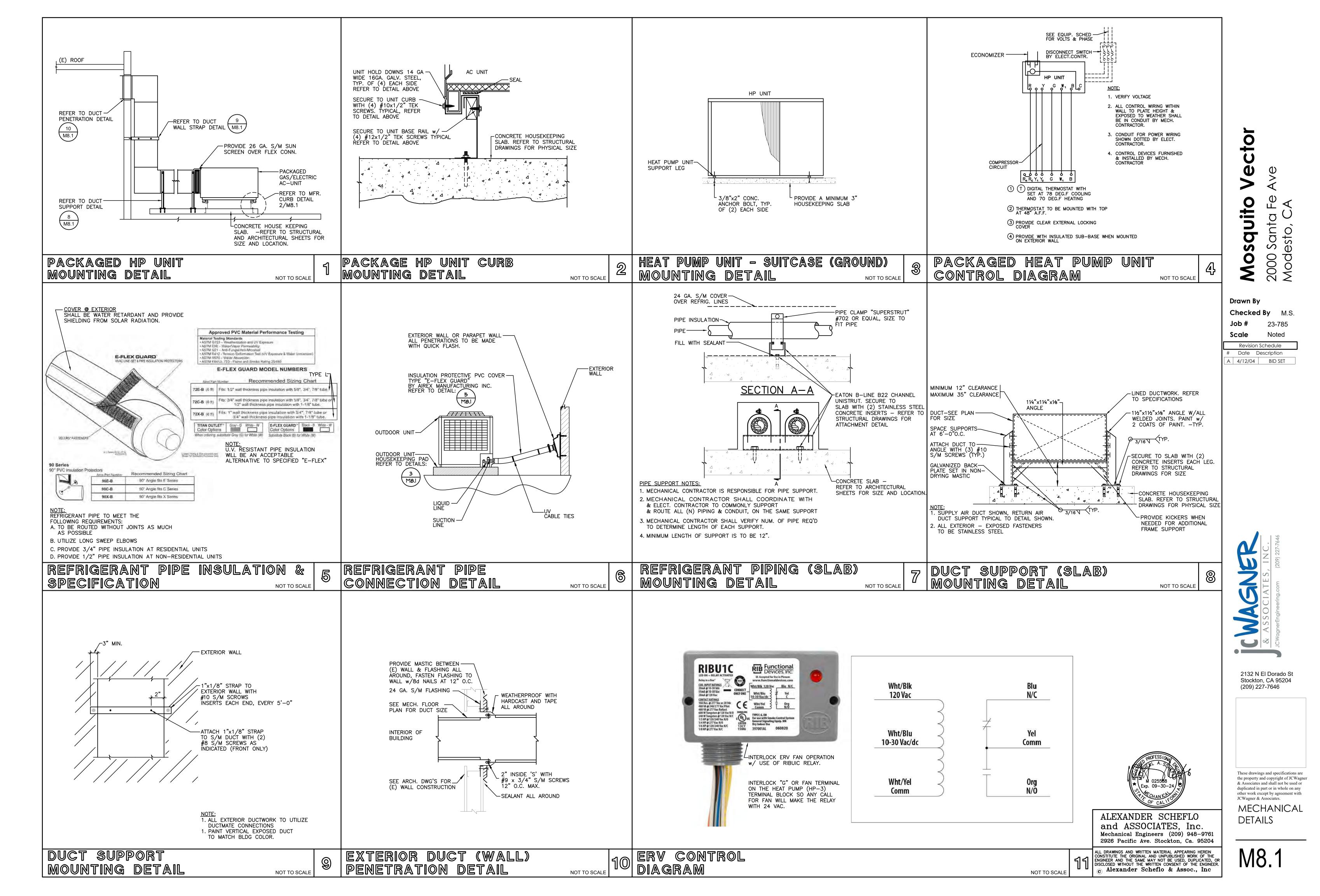
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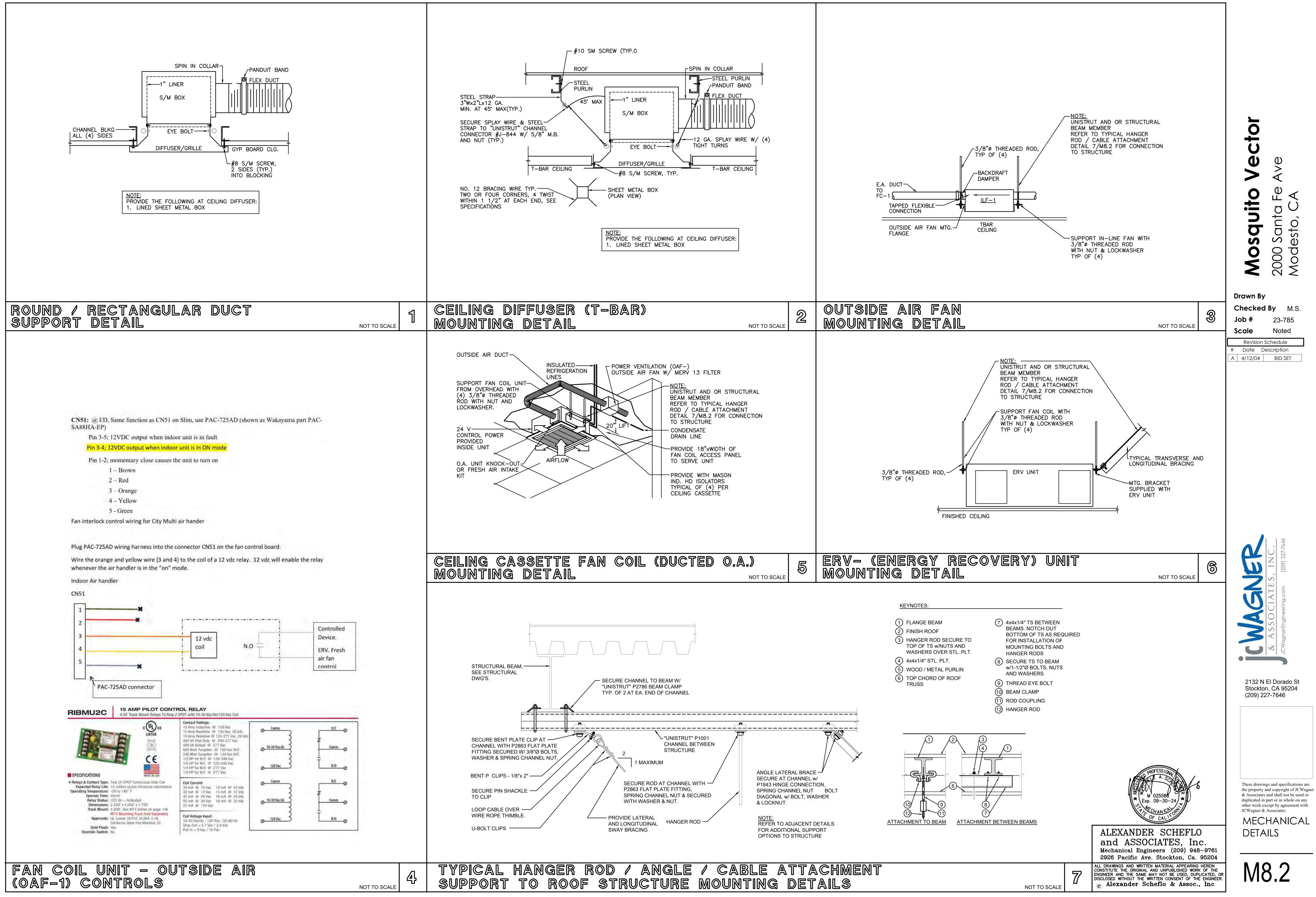
*N***ECHANICAL** CHEDULES



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e Alexander Scheflo & Assoc., Inc





CE		NRESIDENTIAL PERFORMANCE COMPLIANCE METH	HOD				NRCC-PRF-E
No	nresidential Performance Compl	iance Method					(Page 1 of 14)
Pro	ject Name:			2000 Santa Fe Ave Da	ate Prep	pared:	2024-03-25
A. 6	ieneral Information						
1	Project Name	2000 Santa Fe Ave					
2	Run Title	Title 24 Analysis					
3	Project Location	2000 Santa Fe Ave					
4	City	Modesto	5	Standards Version		Compliance 2022	
6	Zip code	95357	7	Compliance Software (ve	ersion)	EnergyPro 9.2	
8	Climate Zone	12	9	Building Orientation (de	g)	45	
10	Building Type(s)	Nonresidential	11	Weather File		MODESTO-CITY_STYP20.epw	
12	Project Scope	• Existing alteration	13	Number of Dwelling Unit	its	0	
14	Total Conditioned Floor Area in Scope (ft ²)	2065	15	Total # of hotel/motel ro	ooms	0	
16	Total Unconditioned Floor Area (ft ²)	0	17	Fuel Type		Natural gas	
18	Nonresidential Conditioned Floor Area	2065	19	Total # of Stories (Habita Above Grade)	able	1	
20	Residential Conditioned Floor Area	0					

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E										
Nonresidential Performance Compliance Method			(Page 4 of 14)							
C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft ² - yr)										
COMPLIES ²										
Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹							
Space Heating	32.72	34.78	-2.06							
Space Cooling	75.08	63.88	11.2							
Indoor Fans	123.91	104.39	19.52							
Heat Rejection	0	0	0							
Pumps & Misc.	0	0	0							
Domestic Hot Water	19.86	19.86	0							
Indoor Lighting	30.62	30.62	0							
Flexibility										
EFFICIENCY COMPLIANCE TOTAL	282.19	253.53	28.66 (10.2%)							
Photovoltaics										
Batteries										
TOTAL COMPLIANCE	282.19	253.53	28.66 (10.2%)							

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Generated: 2024-03-25 15:54:35 Report Version: 2022.0.000 Compliance ID: EnergyPro-3687-0324-0179 Schema Version: rev 20220601

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E (Page 7 of 14) Nonresidential Performance Compliance Method C8. ENERGY USE INTENSITY (EUI) Standard Design (kBtu/ft² / yr) Proposed Design (kBtu/ft² / yr) Margin (kBtu/ft² / yr) Margin Percentage GROSS EUI¹ 53.9 42.66 11.24 20.85 NET EUI¹ 53.9 42.66 11.24 20.85 ¹ Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area. D1. EXCEPTIONAL CONDITIONS • The project uses the Simplified Geometry Performance Modeling Approach which is not capable of modeling daylighting controls and assumes the prescriptive Secondary Daylit Control requirements are met. PRESCRIPTIVE COMPLIANCE documentation (form NRCC-LTI-02-E) for the requirements of section 140.6(d) Automatic Daylighting Controls in Secondary Daylit Zones is required. • The building does not include service water heating. Verify that service water heating is not required and is not included in the design. G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only) 04 low to Wall Ratio (%) 0

Roof

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Window to Wall Rat
North-Facing ¹	0	0	0
East-Facing ²	464.9	11.25	2.42
South-Facing ³	515.6	11.25	2.18
West-Facing ⁴	488.3	22.5	4.61
Total	1468.8	45	3.06

¹North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW), ²East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE), ³South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE), ⁴West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),

2065

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

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1.16

CERTIFICATE OF COMPLIANC	E - NONRESID	DENTIAL PERFORI	MANCE COMPLIANCE METH	IOD	1		NRCC-PRF-E
Nonresidential Performance	Compliance I	Vethod					(Page 2 of 14)
B. PROJECT SUMMARY							
Table B shows which building of permit application.	components a	re included in the	e performance calculation. Ij	f ina	licated as not inc	luded, the project must show compliance prescri	ptively if within the
В	uilding Comp	onents Complyin	ng via Performance			Building Components Complying Pre	scriptively
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water		Performance	The following building components are ONLY eligible for and should be documented on the NRCC form listed if v	
Livelope (see lable d)	MultiFam	Not Included	Heating (See Table I3)		Not Included	permit application (i.e. compliance will not be shown	
Mechanical (See Table H)	Nonres	Performance	Covered Process: [Commercial Kitchens (see - Table J)		Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included			Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Not Included	Covered Process: Laboratory Exhaust (see		Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
Table I)	MultiFam	Not Included	Table J)	\boxtimes	Not Included	Building Components Complying with Man	datory Measures
Lighting (Indoor Conditioned, see Table K)	Nonres	Performance	Photovoltaics (see Table F)		Performance	Electrical power systems, commissioning, solar escalator requirements are mandatory and sho on the NRCC form listed if applicable (i.e. com shown on the NRCC-PRF-E.)	ould be documented opliance will not be
	MultiFam	Not Included		X	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)		Performance	Commissioning 120.8	NRCC-CXR-E is required
			ballery (see lable F)	×	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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C1. COMPLIANCE SUMMARY

are not exceeded

Nonresidential Performance Compliance Method			CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E										
Nonresidential Performance Compliance Method (Page 5 of 14)													
C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS ¹													
Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹										
Receptacle	75.91	75.91											
Process													
Other Ltg													
Process Motors													
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	358.1	329.44	28.66 (8%)										
¹ Notes: This table is not used for Energy Code Compliance.													

This project is pursuing CalGreen Tier 1

This project is pursuing CalGreen Tier 2

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

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Energy ComponentStandard, Singhy ComponentProposed, Singhy ComponentName ComponentName ComponentName ComponentName ComponentSpace heating <t< th=""><th>C7. ENERGY USE SUMMARY</th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	C7. ENERGY USE SUMMARY						
Process Process <t< th=""><th>Energy Component</th><th></th><th></th><th>-</th><th></th><th></th><th></th></t<>	Energy Component			-			
Indoor Fans 8.9 7.6 1.3 Heat Rejection	Space Heating		2.3		23.9		
Heat Rejection Image: Marcine intermediate	Space Cooling	3.9	3.1	0.8			
Pumps & Misc. Image: Misc.	Indoor Fans	8.9	7.6	1.3			
Domestic Hot Water 0.6 0 10.3 10.3 0 Indoor Lighting 2.6 0 <td>Heat Rejection</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Heat Rejection						
Indoor Lighting Indoor Lig	Pumps & Misc.						
Heat Heat <th< td=""><td>Domestic Hot Water</td><td>0.6</td><td>0.6</td><td>0</td><td>10.3</td><td>10.3</td><td>0</td></th<>	Domestic Hot Water	0.6	0.6	0	10.3	10.3	0
EFFICIENCY TOTAL1616.2-0.234.210.323.9PhotovoltaicsBatteriesENERGY USE SUBTOTAL16616.2	Indoor Lighting	2.6	2.6	0			
Image: Constraint of the state of	Flexibility						
Image: A state of the state	EFFICIENCY TOTAL	16	16.2	-0.2	34.2	10.3	23.9
ENERGY USE SUBTOTAL 16 16.2 -0.2 34.2 10.3 23.9 Receptacle 6.6 0	Photovoltaics						
Image: And the second	Batteries						
Process <th< td=""><td>ENERGY USE SUBTOTAL</td><td>16</td><td>16.2</td><td>-0.2</td><td>34.2</td><td>10.3</td><td>23.9</td></th<>	ENERGY USE SUBTOTAL	16	16.2	-0.2	34.2	10.3	23.9
Other Ltg	Receptacle	6.6	6.6	0			
Process Motors	Process						
	Other Ltg						
ENERGY USE TOTAL 22.6 22.8 -0.2 34.2 10.3 23.9	Process Motors						
	ENERGY USE TOTAL	22.6	22.8	-0.2	34.2	10.3	23.9

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CERTIFICATE O	F COMPLIANCE -	NONRESIDE	NTIAL PERFO	RMANCE CO	MPLIANCE N	VETHOD			1	NRCC-PRF-E
Nonresidentia	Performance Co	mpliance Me	ethod						(Pa	age 8 of 14)
G4. NONRESIDE	NTIAL AIR BARRIER									
		01							02	
		Building Sto	ry Name						Air Barrier	
		Com-Flo	or 1						No air barrier	
G5. OPAQUE SUF	RFACE ASSEMBLY S	UMMARY								
01	02	03	04	05	0	06	07	08	09	10
Surface Name	Construction	Area (ft ²)	Framing	Cavity	Continuo	us R-Value	Units	Value	Description of Assembly Layers	Status ¹
Surface Marine	Туре		Туре	R-Value	Interior	Exterior		Value	Description of Assembly Layers	Status
Slab On Grade7	Underground Floor	2,065	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	E
R-19 Metal Bldg. Roof9	Roof	2,065	N/A	19	N/A	N/A	U-factor	0.0696	Metal Standing Seam - 1/16 in. Composite-1 Air - Cavity - Wall Roof Ceiling - 4 in. or more Acoustic Tile - 1/2 in.	A
R-19 Metal Bldg. Wall11	Exterior Wall	470.8	N/A	19	N/A	N/A	U-factor	0.0678	Metal Siding - 1/16 in. Composite-2 Gypsum Board - 1/2 in.	А
R-21 Metal Framed Demisin13	Interior Wall	539.1	Metal	21	N/A	N/A	U-factor	0.1385	Metal Siding - 1/16 in. Plywood - 1/2 in. Composite-3 Gypsum Board - 5/8 in.	A
R-21 Metal Framed Demisin131	Exterior Wall	998	Metal	21	N/A	N/A	U-factor	0.149	Metal Siding - 1/16 in. Plywood - 1/2 in. Composite-3 Gypsum Board - 5/8 in.	A
¹ Status: N - Nev	v, A - Altered, E -	Existing			-	-	-	-		•

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

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NRCC-PRF-E (Page 3 of 14)

СОМР	LIES ³

	Time D	Dependent Valuaton (TDV)	Source Energy Use
	Efficiency ¹ (kBtu/ft ²	- yr) Total ² (kBtu/ft ² - yr)	Total ² (kBtu/ft ² - yr)
Standard Design	282.19	n/a	n/a
Proposed Design	253.53	n/a	n/a
Compliance Margins	28.66	n/a	n/a
	Pass	n/a	n/a
 ¹ Efficiency measures include improvements like a bett ² Compliance Totals include efficiency, photovoltaics an ³ New Construction, Complete Addition Scope: Building 	nd batteries		al to zero and unmet load hour limits

ompliance margins are great in ejjiciency und Existing, Addition and Alteration Scope: Building complies when efficiency compliance margin is greater than or equal to zero and unmet load hour limits are not exceeded

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD	NRCC-PRF-E
Nonresidential Performance Compliance Method	(Page 6 of 14)

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Report Generated: 2024-03-25 15:54:35 Compliance ID: EnergyPro-3687-0324-0179

Mosquito Vecto	2000 Santa Fe Ave	Modesto, CA
Drawn By		J.V.A
Checked	By	M.S.
Job #	23-7	785
Scale	Note	
Revision S # Date De		
A 4/12/04	BID S	Set



2132 N El Dorado St Stockton, CA 95204 (209) 227-7646

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ENERGY COMPLIANCE

⁻24.



ALEXANDER SCHEFLO and ASSOCIATES, Inc. Mechanical Engineers (209) 948-9761 2926 Pacific Ave. Stockton, Ca. 95204

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHO	D NRCC-PRF-
Nonresidential Performance Compliance Method	(Page 9 of 14

G7A. FENESTRATION	ASSEMBLY SUMMARY (NONRESIDENTIAL)							
01	02	03	04	05	06	07	08	09
Fenestration Assembly Name	Fenestration Type/ Product Type / Frame Type	Certification Method ¹	Assembly Method	Area (ft ²)	Overall U-factor	Overall SHGC	Overall VT	Status ²
Skylight	Skylight Fixed window N/A	NFRC	Manufactured	24	0.46	0.25	0.5	N
Windows	Vertical fenestration Operable window N/A	NFRC	Manufactured	45	0.34	0.23	0.5	N
,		•	•	-			•	

01	02	03	04	05 06 07 08 09		10	11	12			
			Heating					Cooling			
Equipment Name	Equipment Type	Qty	Total Heating Output (kBtu/h)	Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status ¹
HP-1 / FC-1	Single Zone Heat Pump (SZHP) Air System	1	14.58	0	COP HSPF2	4.5 10.9	11.52	EER2 SEER2	16.4 26.9	No Economizer	N
HP-2	Single Zone Heat Pump (SZHP) Air System	1	44.17	0	COP HSPF2	3.95 9	52.42	EER2 SEER2	13 16.4	Differential DB	N

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CERTIFICATE OF COMPLIAN	ICE - NONRESIDENTIAL PERFOR	MANCE COMPLIANCE METH	IOD		NRCC-PRF-
Nonresidential Performanc	e Compliance Method				(Page 12 of 14
K1. INDOOR CONDITIONED LIC	GHTING GENERAL INFO				
01	02	03	04	05	06
		Installed Lighting Device	Liebting Control Credito	Additional (Cus	tom) Allowance
Occupancy Type ¹	Conditioned Floor Area ² (ft ²)	Installed Lighting Power (Watts)	Lighting Control Credits (Watts)	Area Category Footnotes (Watts)	Area Category Footnotes (Watts)
Corridor	139	55.6	0	0	0
Locker/Dressing Room	508	228.6	0	0	0
Lounge	152	83.6	0	0	0
Office (250 square feet)	1076	645.6	0	0	0
Office (250 square feet)	190	123.5	0	0	0
Building Totals:	2065	1136.9	0	0	0
K4. INDOOR CONDITIONED LIC	g spaces modeled is not included i SHTING MANDATORY LIGHTING C controls CERTIFICATES OF INSTALLATION				
	tion Author indicate which Certifi spector during construction and c		bmitted for the features to be re	ecognized for compliance. These	documents must be retained
Building Component			Form/Title		
Envelope		e submitted for all buildings			
Envelope	NRCI-ENV-E - Envelope (
Mechanical		pe submitted for all buildings			
Mechanical	NRCI-MCH-E - For all bu NRCI-LTI-E - Indoor Light		ims		

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CERTIFICATE OF COMPLIANCE				С		
						NRCC-PLB-I
	mpliance for nonresidential occupancies v copes using the prescriptive path. For higi					
	th requirements 180.1 for additions and 1		nel/moter occupuncies con	inpliance is demonst	inited with requirer	nents III
Project Name:		Report Page:				(Page 1 of 3
Project Address:		anta Fe Ave Date Prepare	d:			3/25/2024
		•				
A. GENERAL INFORMATION 01 Project Location (city)	Modesto	02	Climate Zone		12	
01 Project Location (city) 03 Occupancy Types Within Proj		02	Climate zone		12	
Office • Support Areas • All Other C	ccupancies	· · · · · · · · · · · · · · · · · · ·				
B. PROJECT SCOPE						
This table includes domestic water heati	ng systems that are within the scope of th	e permit application an	d are demonstratina comp	liance usina the pre	scriptive paths out	lined in 140./
	2N / 180.2 for additions or alterations. So					
hydronic water heating systems are doci	mented on the NRCC-MCH compliance do	ocument.				
01			02		03	
My project consists of	check all that apply):	Syste	n Type ^{1,2}	S	stem Components	
New system (DHW system being ins	alled for the first time)			🗌 Equipment	Distribution	Controls
□ System Alteration (equipment, distr	bution or controls)			Equipment	Distribution	Controls
¹ FOOTNOTES: Point of use water heater	or other non-central systems used to ser		s, are considered individua	Il systems.		
-						
² Dwelling units refers to hotel/motel gu						
² Dwelling units refers to hotel/motel gu	est rooms and units in a multifamily reside g units are considered "Central Systems"		ncies			
² Dwelling units refers to hotel/motel gu			ncies			
² Dwelling units refers to hotel/motel gu ³ DHW systems serving 2 or more dwellin C. COMPLIANCE RESULTS		for multifamily occupat		le says "DOES NOT	COMPLY" or "COMI	PLIES with
² Dwelling units refers to hotel/motel gu ³ DHW systems serving 2 or more dwellin C. COMPLIANCE RESULTS Table C will indicate if the project data in	g units are considered "Central Systems"	for multifamily occupai pliant with water heati		le says "DOES NOT	COMPLY" or "COMI	PLIES with
² Dwelling units refers to hotel/motel gu ³ DHW systems serving 2 or more dwellin C. COMPLIANCE RESULTS Table C will indicate if the project data in	g units are considered "Central Systems" put into the compliance document is com	for multifamily occupai pliant with water heati			COMPLY" or "COMI	PLIES with
 ² Dwelling units refers to hotel/motel gu ³ DHW systems serving 2 or more dwellin C. COMPLIANCE RESULTS Table C will indicate if the project data in Exceptional Conditions" refer to Table D. 	g units are considered "Central Systems" put into the compliance document is com or the table indicated as not compliant fo	for multifamily occupai pliant with water heati r guidance.	ng requirements. If this tab		04	PLIES with
 ² Dwelling units refers to hotel/motel gu ³ DHW systems serving 2 or more dwellin C. COMPLIANCE RESULTS Table C will indicate if the project data in Exceptional Conditions" refer to Table D. 01 	g units are considered "Central Systems" put into the compliance document is comp or the table indicated as not compliant fo 02	for multifamily occupan pliant with water heating r guidance. 03	ng requirements. If this tab			PLIES with
 ² Dwelling units refers to hotel/motel gu ³ DHW systems serving 2 or more dwellin C. COMPLIANCE RESULTS Table C will indicate if the project data in Exceptional Conditions" refer to Table D. 01 Domestic Hot Water Equipment 	g units are considered "Central Systems" put into the compliance document is comp or the table indicated as not compliant fo 02 Distribution Systems	for multifamily occupan pliant with water heating r guidance. 03 Contro	ng requirements. If this tab	Complia	04	PLIES with
 ² Dwelling units refers to hotel/motel gu ³ DHW systems serving 2 or more dwelling C. COMPLIANCE RESULTS Table C will indicate if the project data in Exceptional Conditions" refer to Table D. 01 Domestic Hot Water Equipment Table F Yes 	g units are considered "Central Systems" put into the compliance document is compor the table indicated as not compliant fo 02 Distribution Systems Table G	for multifamily occupan pliant with water heating r guidance. 03 Contro Table I	ng requirements. If this tab	Complia	04 nce Results	PLIES with
 ² Dwelling units refers to hotel/motel gu ³ DHW systems serving 2 or more dwelling C. COMPLIANCE RESULTS Table C will indicate if the project data in Exceptional Conditions" refer to Table D. 01 Domestic Hot Water Equipment Table F Yes 	g units are considered "Central Systems" put into the compliance document is compor the table indicated as not compliant fo 02 Distribution Systems Table G Yes	for multifamily occupan pliant with water heating r guidance. 03 Contro Table I Yes	ng requirements. If this tab s	Complia	04 nce Results	PLIES with
 ² Dwelling units refers to hotel/motel gu ³ DHW systems serving 2 or more dwelling C. COMPLIANCE RESULTS Table C will indicate if the project data in Exceptional Conditions" refer to Table D. 01 Domestic Hot Water Equipment Table F Yes 	g units are considered "Central Systems" put into the compliance document is compor the table indicated as not compliant fo 02 Distribution Systems Table G	for multifamily occupan pliant with water heating r guidance. 03 Contro Table I Yes	ng requirements. If this tab s	Complia	04 nce Results	PLIES with

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101 Compliance ID: EnergyPro-3687-0324-0631 Report Generated: 2024-03-25 15:55:30

CERTIFICATE OF C		CE - NONRE	DENTIAL PI	RFORMANC		NETHOD					r	NRCC-PRF		CERTIFICATE OF COMPLIA	NCE - NONRESIDE
Nonresidential Pe	erformand	e Complian	e Method								(Pa	ge 10 of 1		Nonresidential Performan	nce Compliance M
H1. DRY SYSTEM EC	DUIPMENT	(FURNACES.	IR HANDLING	UNITS. HEAT	PUMPS. VRF. ECON	IOMIZERS ETC	.)						1		
01	02		03	04	05	06	07	08	09	10	11	12	-	H8. SYSTEM SPECIAL FEATURE	ES
01			05		Heating		07	00	Cooling	10		12	-	01	
				Total				Total			Economizer			System Name	e
Equipment Name	Equipme	nt Type	Qty	Heating	Supp Heat Output	ficiency		Cooling	Efficiency	Efficiency	Type (if	Status ¹	Status ¹	HP-2	
				Output (kBtu/h)	(kBtu/h)	Unit	Efficiency	Output (kBtu/h)	Unit	Efficiency	present)			Notes: This table includes contr NRCC-MCH-E.	rols related to the p
	Single Zor Pump (SZ	HP) Air	1	23.94	0	COP HSPF	3.4 8.8	25.5	EER SEER	12.5 16	No Economizer	N		¹ Yes = interlocks are provided,	, No = interlocks are
	Syste												-	H9. NONRESIDENTIAL / COM	MON USE AREA & H
\cdot Statuc \cdot N $=$ NOW /	A - Alterea	, E - Existing												01	02
510103. 14 - 14640, 7															
H3. NONRESIDENTI	IAL / COMN	10N USE ARE	FAN SYSTEM	SUMMARY									7		
H3. NONRESIDENTI	· .	-			06	07	08	09	10	11	12	13		Zone Name	Ventilation Functio
	IAL / COMN 02	03	04	05	06 Supply Fan	07	08	09	10 Return / Reli	11	12	13	-	Zone Name	Ventilation Function
H3. NONRESIDENTI	02	03	04	05	Supply Fan		08 Fan Ty		10 Return / Reli	ef Fan		Statu		Zone Name 1-Open Office Zone 2-Break Zone	Ventilation Function Office - Office spa Office - Breakroor Office - Office spa
H3. NONRESIDENTI	02	03 Design O	04	05	Supply Fan		Fan Ty fol N/A	pe CFM	Return / Reli	ef Fan Power U N/A	nits Control	Statu	-	Zone Name 1-Open Office Zone 2-Break Zone	Ventilation Function Office - Office spa Office - Breakroor Office - Office spa General - Corrido
H3. NONRESIDENTI. 01 Name or Item Taj	02 ng Qty	03 Design O CFM	04 CFM	05 Powe	supply Fan Power Unit BHP	5 Control	Fan Ty ol N/A	pe CFM N/A N/A	Return / Reli Power N/A N/A	ef Fan Power Un N/A	nits Control N/A N/A	Statu	-	Zone Name 1-Open Office Zone 2-Break Zone	Ventilation Function Office - Office spa Office - Breakroor Office - Office spa General - Corrido Exhaust - All othe
H3. NONRESIDENTI, 01 Name or Item Taj HP-1 / FC-1	02 og Qty	03 Design O CFM 0	04 CFM 530	05 Powe 0.04	Fan Power Unit	Control	Fan Ty ol N/A	pe CFM N/A N/A	Return / Reli Power N/A	ef Fan Power U N/A	nits Control N/A N/A	Statu	-	Zone Name 1-Open Office Zone 2-Break Zone	Ventilation Function Office - Office spa Office - Breakroor Office - Office spa General - Corrido
H3. NONRESIDENTI 01 Name or Item Ta HP-1 / FC-1 HP-2	02 Ng Qty 1 1 1	03 Design O CFM 0 236.35 0	04 CFM 530 2,000	05 Powe 0.04 0.78	Fan Power Unit	Constant V Constant V	Fan Ty ol N/A	pe CFM N/A N/A	Return / Reli Power N/A N/A	ef Fan Power Un N/A	nits Control N/A N/A	Statu N N		Zone Name 1-Open Office Zone 2-Break Zone	Ventilation Function Office - Office spa Office - Breakroor Office - Office spa General - Corrido Exhaust - All othe locker rooms
H3. NONRESIDENTI 01 Name or Item Ta HP-1 / FC-1 HP-2 HP-3	02 ng Qty 1 1 - Altered, E	03 Design O CFM 0 236.35 0 - Existing	04 CFM 530 2,000	05 Powe 0.04 0.78	Fan Power Unit	Constant V Constant V	Fan Ty ol N/A	pe CFM N/A N/A	Return / Reli Power N/A N/A	ef Fan Power Un N/A	nits Control N/A N/A	Statu N N		Zone Name 1-Open Office Zone 2-Break Zone 3-Locker Zone	Ventilation Function Office - Office spa Office - Breakroor Office - Office spa General - Corrido Exhaust - All othe locker rooms
H3. NONRESIDENTI 01 Name or Item Ta HP-1 / FC-1 HP-2 HP-3 Status: N - New, A -	02 ng Qty 1 1 - Altered, E	03 Design O CFM 0 236.35 0 - Existing	04 CFM 530 2,000 1,200	05 Powe 0.04 0.78	Fan Power Unit	Constant V Constant V	Fan Ty ol N/A	pe CFM N/A N/A	Return / Reli Power N/A N/A N/A	ef Fan Power Un N/A	nits Control N/A N/A	Statu N N		Zone Name	Ventilation Function Office - Office spa Office - Breakroor Office - Office spa General - Corrido Exhaust - All othe locker rooms RMINAL UNIT SUMM
H3. NONRESIDENTI 01 Name or Item Ta HP-1 / FC-1 HP-2 HP-3 Status: N - New, A -	02 1 1 1 - Altered, E UST FAN SI	03 Design O CFM 0 236.35 0 - Existing	04 CFM 530 2,000 1,200	05 Powe 0.04 0.78 0.52	Fupply Fan Power Unit BHP BHP BHP	Constant V Constant V	Fan Ty ol N/A ol N/A	pe CFM	Return / Reli Power N/A N/A N/A N/A	Power Ui N/A N/A N/A	nits Control N/A N/A N/A N/A	Statu N N N		Zone Name	Ventilation Function Office - Office spa Office - Breakroor Office - Office spa General - Corrido Exhaust - All othe locker rooms RMINAL UNIT SUMI
H3. NONRESIDENTI 01 Name or Item Ta HP-1 / FC-1 HP-2 HP-3 Status: N - New, A - H5. GENERAL EXHA 01 System ID	02 1 1 1 - Altered, E UST FAN SU	03 Design O CFM 0 236.35 0 - Existing JMMARY 02 one Name	04 CFM 530 2,000 1,200	05 Powe 0.04 0.78 0.52	Power Unit BHP BHP BHP BHP 04 CFM	Constant V Constant V	Fan Ty ol N/A ol N/A ol N/A ol N/A	pe CFM N/A N/A N/A Of Power	Return / Reli Power N/A N/A N/A N/A Jnits	ef Fan Power Un N/A N/A N/A N/A 07 Continuous Operation?	nits Control N/A N/A N/A N/A	O8 tatus ¹		Zone Name	Ventilation Function Office - Office spa Office - Breakroor Office - Office spa General - Corrido Exhaust - All othe locker rooms
H3. NONRESIDENTI 01 Name or Item Ta HP-1 / FC-1 HP-2 HP-3 Status: N - New, A - H5. GENERAL EXHA 01	02 1 1 1 1 - Altered, E UST FAN SU 2 2 1 1-Opt	03 Design O CFM 0 236.35 0 - Existing JMMARY 02	04 CFM 530 2,000 1,200	05 Powe 0.04 0.78 0.52	Power Unit BHP BHP BHP BHP	Constant V Constant V	Fan Ty ol N/A ol N/A ol N/A ol N/A	pe CFM N/A N/A N/A	Return / Reli Power N/A N/A N/A N/A Jnits	ef Fan Power Ui N/A N/A N/A 07 Continuous	nits Control N/A N/A N/A N/A	Statu N N N 08		Zone Name	Ventilation Function Office - Office spa Office - Breakroor Office - Office spa General - Corrido Exhaust - All othe locker rooms RMINAL UNIT SUMI

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

Schema Version: rev 20220601

Report Generated: 2024-03-25 15:54:35 Compliance ID: EnergyPro-3687-0324-0179

Report Generated: 2024-03-25 15:54:35

Compliance ID: EnergyPro-3687-0324-0179

System Name HP-2 Notes: This table includes controls related to the p NRCC-MCH-E. ¹ Yes = interlocks are provided, No = interlocks are H9. NONRESIDENTIAL / COMMON USE AREA 8 01 02 Zone Name Ventilation Funct 1-Open Office Zone Office - Office sp Office - Breakro 2-Break Zone Office - Office sp General - Corric Exhaust - All oth 3-Locker Zone locker rooms H11. ZONAL SYSTEM AND TERMINAL UNIT SUM 01 . System ID Syster 1-Open Office Zone-Trm Uncon Uncon Uncon 2-Break Zone-Trm 3-Locker Zone-Trm CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000

	FICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE ME	HOD	NRCC-PRF-E
Nonre	sidential Performance Compliance Method		(Page 14 of 14)
Docume	entation Author's Declaration Statement		
1. I cert	tify that this Certificate of Compliance documentation is accurate and complete	e	
Docum	entation Author Name: Jason Van Alst	Documentation Author Signature:	Jason malet
Compai	ny: ALEXANDER SCHEFLO & ASSOCIATES	Signature Date: 03-25-24	Jason Can alt
Address	s: 2926 Pacific Avenue	CEA/HERS Certification Identification (if a	pplicable):
City/Sta	ite/Zip: Stockton, CA 95204	Phone: 209-948-9761	
Respon	sible Person's Declaration statement		
l certify	the following under penalty of perjury, under the laws of the State of Californ	iia:	
1. 2. 3. 4. 5.	The information provided on this Certificate of Compliance is true and correc I am eligible under Division 3 of the Business and Professions Code to accept Compliance (responsible designer) The energy features and performance specifications, materials, components, Certificate of Compliance conform to the requirements of Title 24, Part 1 and The building design features or system design features identified on this Certi compliance documents, worksheets, calculations, plans and specifications sul I understand that a registered copy of this Certificate of Compliance shall be a the enforcement agency for all applicable inspections, and I will take the nece	responsibility for the building design or syst and manufactured devices for the building Part 6 of the California Code of Regulations ficate of Compliance are consistent with the pritted to the enforcement agency for appunded available with the building permit(s) is	design or system design identified on this e information provided on other applicable roval with this building permit application.
6.	I understand that a registered copy of this Certificate of Compliance is require occupancy, and I will take the necessary steps to accomplish these requirements of the steps	d to be included with the documentation the nts.	
Respon	I understand that a registered copy of this Certificate of Compliance is require occupancy, and I will take the necessary steps to accomplish these requireme sible Designer Name:	d to be included with the documentation the	
Respon: Compar	I understand that a registered copy of this Certificate of Compliance is require occupancy, and I will take the necessary steps to accomplish these requireme sible Designer Name: ny: Precision Building Solutions	d to be included with the documentation the termination the second secon	
Respon Compar Address	I understand that a registered copy of this Certificate of Compliance is require occupancy, and I will take the necessary steps to accomplish these requirements sible Designer Name: ny: Precision Building Solutions s: 2132 N. El Dorado Street	d to be included with the documentation the termination the second secon	
Respon Compar Address City/Sta	I understand that a registered copy of this Certificate of Compliance is require occupancy, and I will take the necessary steps to accomplish these requirements sible Designer Name: ny: Precision Building Solutions s: 2132 N. El Dorado Street ate/Zip: Stockton, CA 95204	d to be included with the documentation the nts. Responsible Designer Signature: Date Signed: License #:	
Respon Compar Address City/Sta Phone:	I understand that a registered copy of this Certificate of Compliance is require occupancy, and I will take the necessary steps to accomplish these requirements sible Designer Name: ny: Precision Building Solutions s: 2132 N. El Dorado Street ate/Zip: Stockton, CA 95204 209-310-1225	d to be included with the documentation the termination the second secon	
Respon Compar Address City/Sta Phone: Respon	l understand that a registered copy of this Certificate of Compliance is require occupancy, and I will take the necessary steps to accomplish these requirements sible Designer Name: ny: Precision Building Solutions s: 2132 N. El Dorado Street ate/Zip: Stockton, CA 95204 209-310-1225 sible Designer Name: Mitch Scheflo	d to be included with the documentation the nts. Responsible Designer Signature: Date Signed: License #:	ne builder provides to the building owner at
Respon Compar Address City/Sta Phone: Respon	I understand that a registered copy of this Certificate of Compliance is require occupancy, and I will take the necessary steps to accomplish these requirements sible Designer Name: ny: Precision Building Solutions s: 2132 N. El Dorado Street ate/Zip: Stockton, CA 95204 209-310-1225	d to be included with the documentation thats. Responsible Designer Signature: Date Signed: License #: Title:	ne builder provides to the building owner at
Respon: Compar Address City/Sta Phone: Respon: Compar	l understand that a registered copy of this Certificate of Compliance is require occupancy, and I will take the necessary steps to accomplish these requirements sible Designer Name: ny: Precision Building Solutions s: 2132 N. El Dorado Street ate/Zip: Stockton, CA 95204 209-310-1225 sible Designer Name: Mitch Scheflo	d to be included with the documentation thats. Responsible Designer Signature: Date Signed: License #: Title:	ne builder provides to the building owner at
Respon Compar Address City/Sta Phone: Respon Compar Address	I understand that a registered copy of this Certificate of Compliance is require occupancy, and I will take the necessary steps to accomplish these requirements sible Designer Name: ny: Precision Building Solutions s: 2132 N. El Dorado Street ate/Zip: Stockton, CA 95204 209-310-1225 sible Designer Name: Mitch Scheflo ny: Alexander Scheflo & Associates, Inc.	d to be included with the documentation thats. Responsible Designer Signature: Date Signed: License #: Title: Responsible Designer Signature:	ne builder provides to the building owner at

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

CERTIFICATE OF COMPLIANCE - N	IONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD NRCC-PRF-E
Nonresidential Performance Con	npliance Method (Page 13 of 14)
M. DECLARATION OF REQUIRED CER	TIFICATES OF ACCEPTANCE
•	uthor indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided ruction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).
Building Component	Form/Title
Envelope	NRCA-ENV-02-F - NRFC label verification for fenestration
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC
Mechanical	NRCA-MCH-05-A - Air Economizer Controls
Mechanical	NRCA-MCH-12-A FDD for Packaged Direct Expansion Units
N. DECLARATION OF REQUIRED CERT	IFICATES OF VERIFICATION
-	uthor indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained r during construction and can be found online

There are no Certificates of Verification applicable to this project

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Schema Version: rev 20220601

STATE OF CALIFORNIA	
Domestic Water Heating System	CALIFORNIA ENERGY COMMISSIO
CERTIFICATE OF COMPLIANCE	NRCC-PLB-
Project Name:	Report Page: (Page 2 of S
	Date Prepared: 3/25/202
E. ADDITIONAL REMARKS	
This table includes remarks made by the permit applicant to the Auth	ority Having Jurisdiction.
G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM	
This section does not apply to this project.	
H. DOMESTIC HOT WATER CONTROLS	
This section does not apply to this project.	
I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATIO	J
Selections have been made based on information provided in this do Additional Remarks. These documents must be provided to the build	ument. If any selection have been changed by permit applicant, an explanation should be included in Table E. ng inspector during construction and can be found online
	Form/Title
NRCI-PLB-E - Must be submitted for all buildings	
J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE	
There are no forms required for this project.	
K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATIO	AN INC.

There are no forms required for this project.

Report Version: 2022.0.000 Schema Version: rev 20220101

Generated Date/Time:

Documentation Software: EnergyPro

IDENTI	IAL PERFO	RMANC	E COMPLIA	NCE METHOD	1						NRC	C-PRF-E
e Meth	od										(Page 1	1 of 14)
		02	2			03					04	
		Equipme	nt Type		In	terlocks per 14	10.4(n) ¹		Othe	r Special Fe	atures and Cont	rols
	-		ip (SZHP) A	-		N/A					ential DB	
ie perfo	rmance pa	th only. Fo	or projects u	ing the prescrip	otive path, i	mandatory and	l prescriptive	contro	ols requireme	ents are doc	umented on the	
are not	provided, I	VA means	no operable	openings.								
& HOT	EL/MOTEL	VENTILAT	ION									
		03		04		05	i		06		07	
			echanical Ve					- Co	nditioned Ar	ea (sf)	DCV or Occupan	
space	#	# of Peopl	e	Supply OA (50.4	CFM	Exhaust 55			336		Controls, or Both N/A	
rooms		1.00		50.4								
space ridors		10.41		236.35		0			1221		N/A	
other ms		5.08		0		28	0		508 N/A			
02	۲Y	03	04	05	06	07	08		09	10	11	12
02		03		acity (kBtuh)	00	Airflow (c			09	Fan		12
em Typ	e	Qty	Heating	Cooling	Design		Min. Ra	atio	Power	Power	Cycles	VSD
					_					Units	-	
ontrolle		1	N/A	N/A	530	N/A	0	-+	N/A	N/A	N/A	
ontrolle		1	N/A N/A	N/A N/A	2,000 1,200		0		N/A N/A	N/A N/A	N/A N/A	
, no one	-4	L *	11/74	11/7	1,200				N/A	11/74	11/7	

Schema Version: rev 20220601

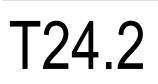
Report Generated: 2024-03-25 15:54:35 Compliance ID: EnergyPro-3687-0324-0179

Report Version: 2022.0.000 Schema Version: rev 20220601

Report Generated: 2024-03-25 15:54:35 Compliance ID: EnergyPro-3687-0324-0179

Mosquito Vector	2000 Santa Fe Ave	Modesto, CA
Drawn By Checked Job # Scale	By 23-7 Note	
Revision S Date De 4/12/04		e n
NER	TES, INC.	
WAG	A S S O C I A ⁻	
2132 N I Stocktor		
(209) 22	7-7646	
These drawing the property a & Associates duplicated in p other work exe JCWagner & A	nd copyrig and shall n part or in w cept by age Associates	ht of JCWagne ot be used or whole on any reement with







ALEXANDER SCHEFLO and ASSOCIATES, Inc. Mechanical Engineers (209) 948-9761 2926 Pacific Ave. Stockton, Ca. 95204

STATE OF CALIFORNIA			
Domestic Water Heating System			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		*	NRCC-PLB-E
Project Name:		Report Page:	(Page 3 of 3)
Project Address:	2000 Santa Fe Ave	Date Prepared:	3/25/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and comp	lete.
Documentation Author Name: Jason Van Alst	Documentation Author Signature: Jason On Old
Company: ALEXANDER SCHEFLO & ASSOCIATES	Signature Date: 03-25-24
Address: 2926 Pacific Avenue	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Stockton CA 95204	Phone: 209-948-9761
 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 and plans and specifications submitted to the enforcement agency for approval with this building permit 	ices for the building design or system design identified on this Certificate of Compliance conform to the requiremen re consistent with the information provided on other applicable compliance documents, worksheets, calculations, application. vith the building permit(s) issued for the building, and made available to the enforcement agency for all applicable
Responsible Designer Name: Mitch Scheflo	Responsible Designer Signature:
Company: Alexander Scheflo & Associates, Inc.	Date Signed: 2024-03-25
Address: 2926 Pacific Avenue	License: M025588
City/State/Zip: Stockton CA 95204	Phone: 209-948-9761

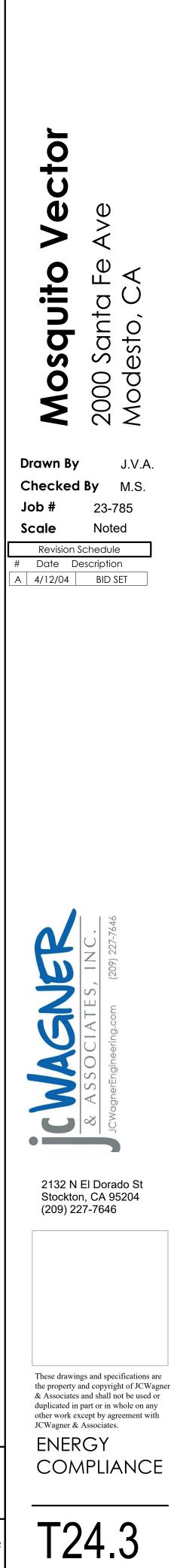
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000 Schema Version: rev 20220101

Generated Date/Time:

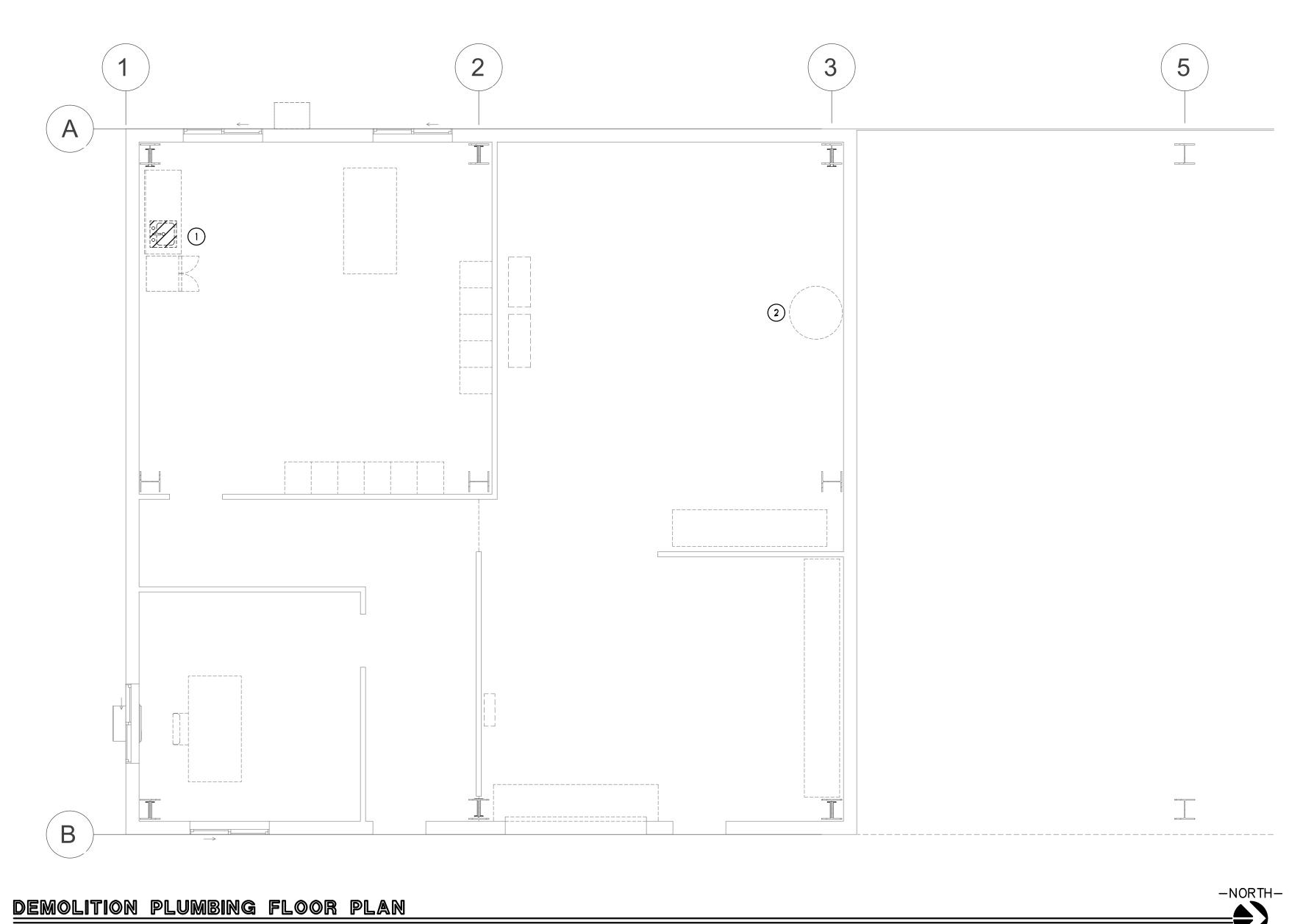
Compliance ID: EnergyPro-3687-0324-0631 Report Generated: 2024-03-25 15:55:30

Documentation Software: EnergyPro



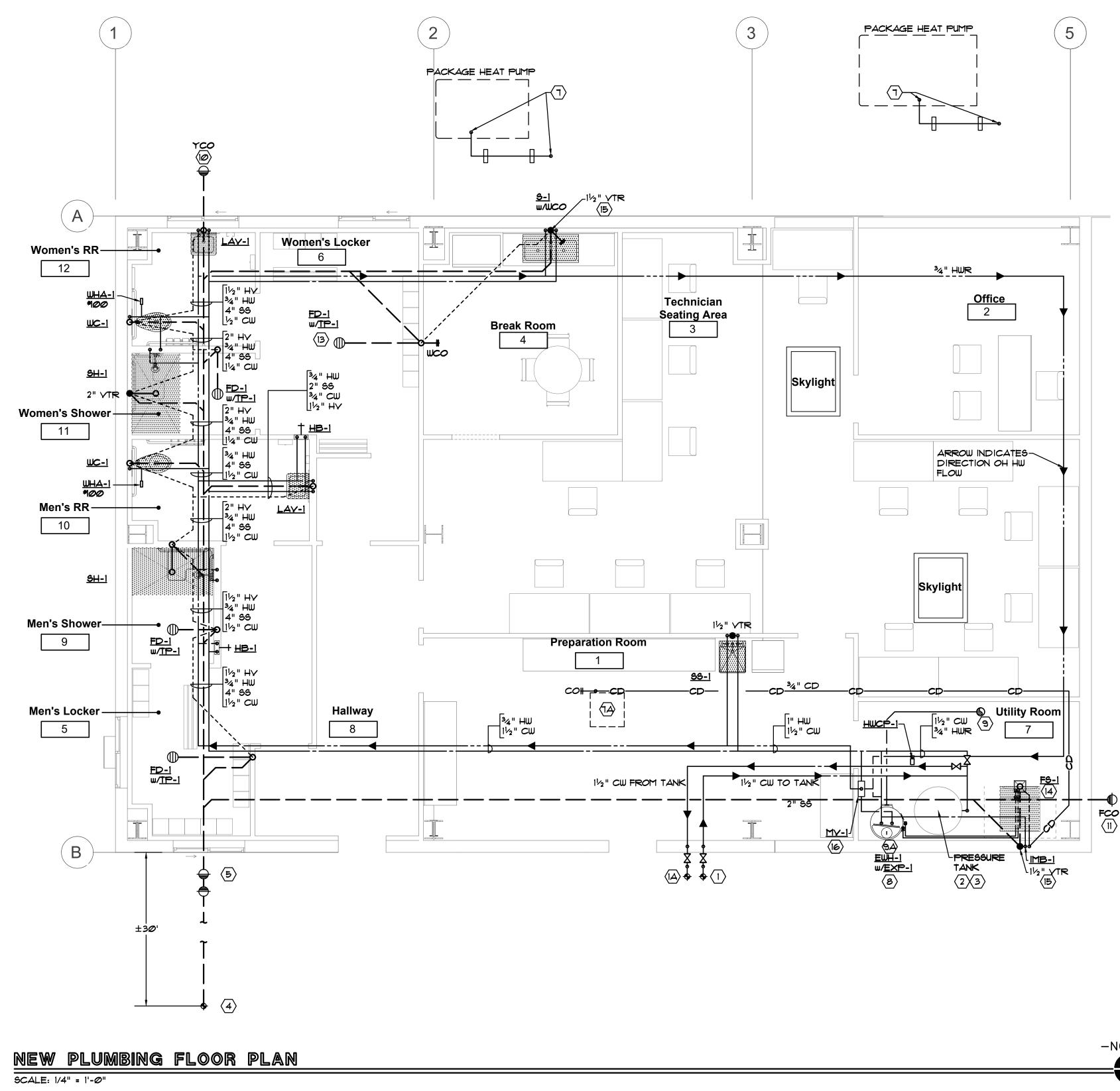


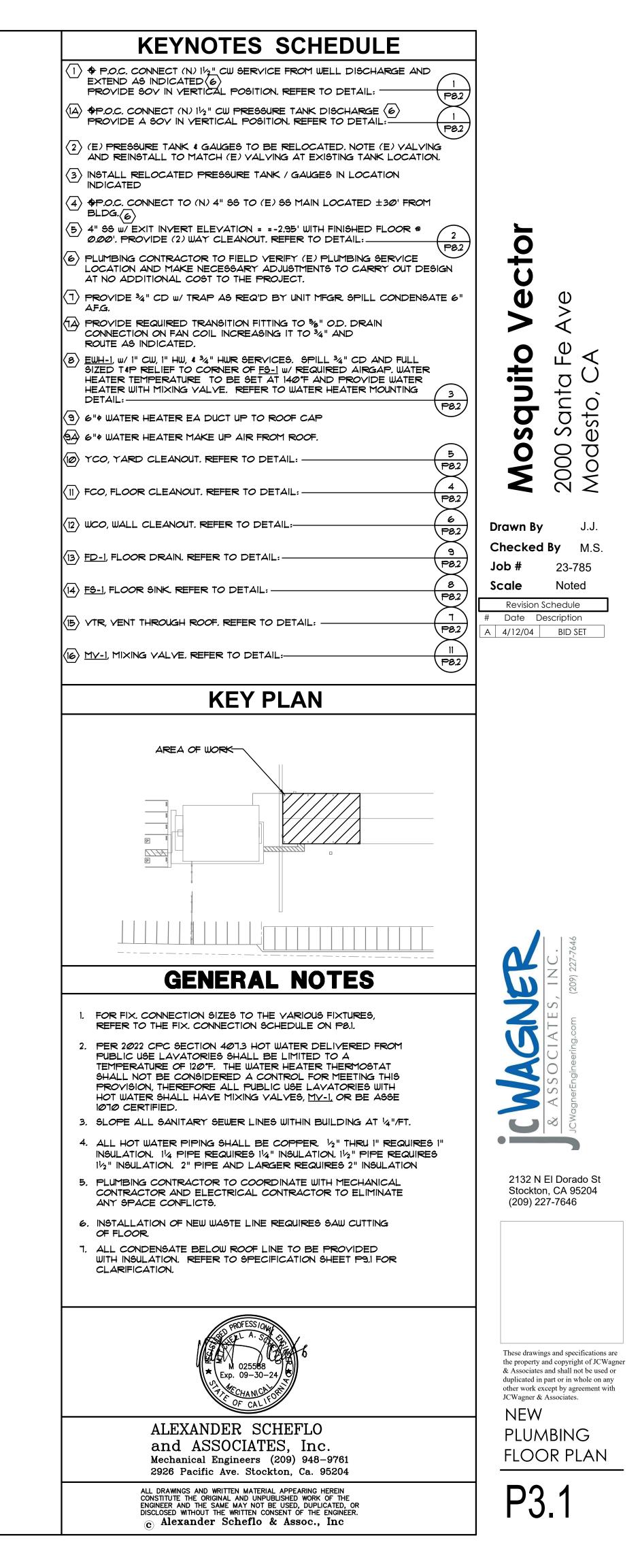
ALEXANDER SCHEFLO and ASSOCIATES, Inc. Mechanical Engineers (209) 948-9761 2926 Pacific Ave. Stockton, Ca. 95204



SCALE: 1/4" = 1'-Ø"

DEMO PLUMBING KEYNOTES	
1 REMOVE (E) SINK. CAP (E) SERVICES BEHIND FINISHED SURFACE. 2 RELOCATE WELL PRESSURE TANK. REFER TO NEW FLOOR PLAN FOR FURTHER INFORMATION. ABANDON (E) LINES BELOW FINISHED FLOOR.	
	Mosquito Vector 2000 Santa Fe Ave Modesto, CA
	Drawn By J.J. Checked By M.S. Job # 23-785 Scale Noted Revision Schedule # Date Description A 4/12/04 BID SET
	2132 N EI Dorado St Stockton, CA 95204 (209) 227-7646
ALEXANDER SCHEFLO and ASSOCIATES, Inc. Mechanical Engineers (209) 948–9761 2926 Pacific Ave. Stockton, Ca. 95204 ALL DRAWINGS AND WRITEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ENGINEER AND WITEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ENGINEER AND WITHOUT THE WATERIAL APPEARING HEREIN C. Alexander Scheflo & Assoc., Inc	These drawings and specifications are the property and copyright of JCWagner & Associates and shall not be used or duplicated in part or in whole on any other work except by agreement with JCWagner & Associates. DEMOLITION PLUMBING FLOOR PLAN DDP3.1





FIXTURE CONNECTION SIZE

 FIXTURE
 SYM
 WASTE BRANCH OUTLET
 TRAP
 VENT
 COLD
 WATER
 HOT
 WATER

 WATER
 CLOSET
 (F.V.)
 WC
 4"
 4"
 2",4"
 1 ¼"
 1"

 LAVATORY
 LAV
 2"
 1 ½"
 1 ½"
 1 ½"
 3/4"
 1/2"
 3/4"
 1/2"

 SHOWER
 SH
 2"
 2"
 2"
 1 ½"
 3/4"
 1/2"
 3/4"
 1/2"

 SINK
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	T	<u>able (313.3)</u>			<u>. Table (1</u>	<u> 210.2.4.1)</u>		
MATERIALS	TYPES OF JOINTS	HORIZONTAL	VERTICAL	STEEL PIPE NOMINAL SIZE OF PIPE (inches)	SPACING OF SUPPORTS (feet)	NOMINAL SIZE OF TUBING SMOOTH-WALL (inhes O.D.)	SPACING OF SUPPORTS (feet)	WC-
COPPER & COPPER ALLOYS	SOLDERED, BRAZED, THREADED, OR	1-1/2" AND SMALLER, 6 FEET; 2" AND LARGER. 10 FEET	EACH FLOOR, NOT TO EXCEED 10 FEET 5	1/2	6	1/2	4	
SCHEDULE 40 PVC and ABS DWV	MECHANICAL SOLVENT CEMENTED	ALL SIZES, 4 FEET; ALLOW FOR EXPANSION EVERY	BASE AND EACH FLOOR; PROVIDE MID-STORY GUIDES;	3/4 or 1	8	5/8 or 3/4	6	ss-
		30 FEET. 3	PROVIDE FOR EXPANSION EVERY 30 FEET	1-1/4 OR LARGER (HORIZONTAL)	10	7/8 or 1 (HORIZONTAL)	8	 S1
3SUPPORT	TAT EACH HORIZO	FOOT INTERVALS TO PREVENT H NTAL BRANCH CONNECTION. LACED ON THE COUPLING.	HORIZONTAL MOVEMENT.	1-1/4 OR LARGER (VERTICAL)	EVERY FLOOR LEVEL	1 OR LARGER (VERTICAL)	EVERY FLOOR LEVEL	

5VERTICAL WATER LINES SHALL BE PERMITTED TO BE SUPPORTED IN ACCORDANCE WITH WHERE FIRST APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

	2022 COMMERCIAL CALIF GREEN CODE NOTES	
	CODE REQUIREMENTS	LOCATION FOUND
PLUMBING FIXTU	CONSERVING PLUMBING FIXTURES AND FITTINGS. JRES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS EADS) SHALL COMPLY WITH THE FOLLOWING:	REFER TO PLUMBING FIXTURE SCHEDULE ON THIS SHEET FOR REQUIRED FLOW RATES.
WATER CL TANK-TYPE	ATER CLOSETS. THE EFFECTIVE FLUSH VOLUME OF ALL OSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. E WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE OF THE U.S. EPA WATERSENSE SPECIFICATION FOR E TOILETS.	
DEFI	E: THE EFFECTIVE FLUSH VOLUME OF DUAL FLUSH TOILETS IS NED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO JCED FLUSHES AND ONE FULL FLUSH.	
5.303.3.3 SHOWE	ERHEADS.	REFER TO PLUMBING FIXTURE
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.	SCHEDULE ON THIS SHEET FOR REQUIRED FLOW RATES.
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 2.0 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME.	
	NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWER-HEAD.	
5.303.3.4 FAUCE	TS AND FOUNTAINS.	REFER TO PLUMBING FIXTURE
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.	SCHEDULE ON THIS SHEET FOR REQUIRED FLOW RATES.
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 .20 GALLONS PER CYCLE.	
5.303.3.4.5	METERING FAUCETS FOR WASH FOUNTAINS. METERING FAUCETS FOR WASH FOUNTAINS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.20 GALLONS PER CYCLE/20 [RIM SPACE (INCHES) AT 60 PSI].	
	NOTE: WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.	
5.303.3.4.6	PRE-RINSE SPRAY VALVE. WHEN INSTALLED, SHALL MEET THE REQUIREMENTS IN THE CALIFORNIA CODE OF REGULATIONS, TITLE 20 (APPLIANCE EFFICIENCY REGULATIONS), SECTION 1605.1 (H)(4) TABLE H-2, SECTION 1605.3 (H)(4)(A), AND SECTION 1607 (D)(7), AND SHALL BE EQUIPPED WITH AN INTEGRAL AUTOMATIC SHUTOFF.	

	P	LUM	BING	FIXTU	ire s	CHED	OULE				PL	umbing	Legend
L	DESCRIPT		TRI			REMA				SPECIFIED FIXTURE MAND (GPM)	SYMBOL		DESCRIPTION
ARD	1.28 GPF F VALVE ACCE WATER CLOS	LUSH SSIBLE	SLOAN ROY, 111-1.28 (BEMIS 195			1.28		<u>MAND (GPM)</u> 1.28 GPF	— - — cw — — HW	COLD WATER	LINE
ARD	ACCESSIBLE LAVATORY WALL HUNG		CHICAGO (A E80-A11H- (INTEGRATEL TEMPERATUI DEVICE CON TO ASSE 10) RE LIMITING IFORMING	ZURN Z123 DEARBORN JUST J-AD LAV-GUARD CRAFT POL! TUBE AND R1520DLS/	31 CARRIER BRASS 704 A-115-FS) #101 E-2 SHED CHROI COMPRESSI (R1520AS C	4—1 P—TRAP AND DRAIN TRUEBRO Z PROVIDE BRASS MIUM PLATED COPPER ON SHUT—OFF STOPS IR S1715ABC.	.2 GPN CYCL		08 GPM / CYCLE		SANITARY SE HORIZONTAL RAIN WATER CONDENSATE CLEAN OUT WALL CLEAN	VENT LEADER DRAIN
ARD 008	UPRIGHT SERVICE SIN	IK	AMERICAN S 8351.076 F	TANDARD AUCET			7798.020 2" TRAP ND RIM GUARD				FCO		OUT TO GRADE
-GR	18 GA. S/S DO COMPARTMENT S 21 x37 x6 1/2	UBLE Şink DP	CHICAGO EC 2300-8E34	CAST ABCP	w/ (2) JU COMPLETE #102 W/	IST J-ADA- W/ TRUBRO #105 ACC	-35 DRAIN SYSTEM) HANDILAV-GUARD)ESSORY					FLOOR DRAII FLOOR SINK TRAP PRIMEI	
	ICE MAKER BOX						NS w/ WATER				HB →⊠ SOV	HOSE BIBB GATE VALVE SHUT OFF V	
	SQUARE FLC		w/ <u>TP-1</u> V TRAP PRIME	ATERLESS R	NICKEL BE STRAINER	RONZE HEI	EL-PROOF					BALANCING V GAS COCK	VALVE
	2" FLOOR D TRAP SEALE (WATERLESS	RAIN R)											<u>-</u> REDUCING VALVE (PRV) TER BALANCING VALVE
	12"x12"x6" FLOOR SINK						NG PORCELAIN TOP					CHECK VALV EXPANSION	JOINT
	80 GALLON COMMERCIAL PUMP WATER		W/ WATTS T&P RELIEF	40 XL	PROVIDE V	<i>м∕ <u>MV−1</u>.</i>	INPUT= 5 KW ECOVERY = SET DISCHARGE L TO 120°F				SS, SSD	VENT, VENT SEWER, SAN	MER ARRESTER WITH SIZE RISER, VENT THRU ROOF ITARY SEWER DROP
	2.1 GALLON WATER HEAT EXPANSION	ER TANK	ACCEPTANCE .9 GALLON		OPER. WT.						CW, D, R HW, D, R HWR	HW SUPPLY HOT WATER	
IOT	HOT WATER CIRCULATION PUMP		4 GPM @ 6 87 WATTS, 115V. 1ø	.75 AMPS							THW G MPG	TEMPERED H NATURAL GA MEDIUM PRE	S LOW PRESSURE
	WATER HAMM ARRESTOR	MER	SEE PLAN FOR SIZE		STAINLESS WITH CYLII	STEEL AC	W-SS-CL 12"X12" CCESS PANEL K				HPG LPG	HIGH PRESS	URE GAS
	WALL CLEAN				SEE SPEC	IFICATIONS	FOR TOP				CA DL	COMPRESSE	
	FLOOR CLEA				SEE SPEC	IFICATIONS	FOR TOP				DS RD AD	DOWN SPOU ROOF DRAIN AREA DRAIN	
	THERMOSTAT MIXING VALV				PROVIDED ENCLOSUR	E					AC BG	ABOVE CEILI BELOW GRAD	DE
	VARI TEMP HYDRANT		w/ LOOSE		BREAKER		X AND VACUUM				MV WC UR	MIXING VALV WATER CLOS URINAL	
	ADA SHOWER VALVE AND HELD SHOW	HAND ER	3505-H321- SHOWER VA	-V–CYL–1.5 LVE	PROVIDE V ZURN ZN-	N/ INTEGR -415-B F	AL SERVICE STOPS LOOR DRAIN				LAV S	LAVATORY SINK	12
	[(CPC A		DIX ',	4' CALCUL	ATION	2		SS WM DF	SERVICE SIN WASHING MA DRINKING FO	CHINE
	-			· · · ·		OF WELL				50 PSI	GD	GARGABE DIS	SPOSAL
	-		RE LOSS TH						-	Ø PSI	FHC FHS	FIRE HOSE	CABINET
			re loss di Re loss fr	· · · ·				5 F1		2.2 PSI 0.0 PSI	INV.	INVERT ELEV	ATION
	-		RE LOSS FR							Ø.Ø PSI	FG F/G	FINISHED GA	RDE
	-		RE LOGS FR			<u> </u>				0.0 PSI	♣ P.O.C. AP	POINT OF C	
			RESSURE L							2.2 PSI	CI	CAST IRON	
	H					2E				20.0 PSI		VITRIFIED CL	
	-									27.8 PSI	HDR	HEADER	-
	-									125.Ø FT	DN MBH		OF BTU PER HOUR
	H									143.8 FT	NIPC P		MBING CONTRACT MBING CONTRACT
	Ī	MAXIMUM	1 ALLOWAB	LE FRICTIC	N LOSS				19,4	PSI/100 FT	D.L.	DEVELOPED	
			F	LUMBI	ING FI>	KTURE	TABLE						
FIXT			QTY			TOTAL CW	HW DEMAND	TOTAL HW	DFU	Total DFU			
	ER CLOSET (FV)	2	5.		10.00 FU	0	0.00 FU	4	8			
SINK	ATORY		2	1.4 1.3		2.00 FU 3.00 FU	1.Ø 1.5	2.00 FU 3.00 FU	2	2 4			
SHO			2	2.9		4.00 FU	2.0	4.00 FU	3	6			
	P SINK		1	3.		3.00 FU	3.Ø	3.00 FU	3	3			
ICE	MACHINE		1	Ø.	.5	Ø.50 FU	Ø	<i>0.00</i> Fu	1	1			
HOS	E BIBB (HOT	COLD)	1	1.0	0	1.00 FU	1.Ø	1.00 FU	Ø	Ø			
				0					2				

2022 CALIFORNIA PLUMBING CODE HANGERS AND SUPPORTS 2022 CALIFORNIA PLUMBING CODE SUPPORT OF PIPING

			PLUM	ibing	FIXTU	ire s	CHED	ULE				PLU	JMBING LEGEND
MARK	MAKE & MO	DEL	DESCRIPTION	TRI	м		REMA	RKS	CAL G REDU	REEN JCED	SPECIFIED FIXTURE DEMAND (GPM)	SYMBOL	DESCRIPTION
WC-1	AMERICAN STAN 3461.001	NDARD	1.28 GPF FLUSH VALVE ACCESSIBLE WATER CLOSET	SLOAN ROY, 111-1.28 (55SSCT WH		1.28		1.28 GPF	— - — CW — — HW — — — SS	COLD WATER LINE HOT WATER LINE SANITARY SEWER LINE
LAV-1	AMERICAN STAN 0436.004	IDARD	ACCESSIBLE LAVATORY WALL HUNG	CHICAGO (A E80-A11H- (INTEGRATEL TEMPERATUI DEVICE CON TO ASSE 10) RE LIMITING IFORMING	ZURN Z12 DEARBORN JUST J-AE LAV-GUARI CRAFT POL TUBE AND R1520DLS,	31 CARRIER BRASS 704)A-115-FS D #101 E-Z ISHED CHRON COMPRESSIO /R1520AS 0	-1 P-TRAP AND DRAIN TRUEBRO PROVIDE BRASS IUM PLATED COPPER DN SHUT-OFF STOPS R S1715ABC.	.2 GF CYC	°M /	.08 GPM / CYCLE	HV 	HORIZONTAL VENT RAIN WATER LEADER CONDENSATE DRAIN CLEAN OUT WALL CLEAN OUT
SS-1	AMERICAN STAN LAKEWELL 7692	NDARD 2.008	UPRIGHT SERVICE SINK	AMERICAN S 8351.076 F	TANDARD AUCET	AMERICAN w/ WALL	STANDARD 7 HANGER A	798.020 2" TRAP ND RIM GUARD					FLOOR CLEAN OUT YARD CLEAN OUT TO GRADE FLOOR DRAIN
S-1	JUST DL-ADA-2137-	-A-GR	18 GA. S/S DOUBLE COMPARTMENT SINK 21"x37"x6 1/2" DP	CHICAGO EC 2300-8E34	CAST ABCP	w/ (2) JU COMPLETE #102 W/	JST J-ADA- W/ TRUBRC #105 ACC	-35 DRAIN SYSTEM HANDILAV-GUARD ESSORY					FLOOR SINK TRAP PRIMER
IMB-1	LSP PRODUCTS OB-817-LL	;	ICE MAKER BOX			COPPER		NS w/ WATER				HB →× SOV	HOSE BIBB GATE VALVE SHUT OFF VALVE
FD-1	ZURN ZN-415-S		SQUARE FLOOR DRAIN	W/ TP-1 W TRAP PRIME	ATERLESS	NICKEL B STRAINER	RONZE HEE	L-PROOF					BALANCING VALVE GAS COCK
TP-1	THE SURE SEA SS2009V	L	2" FLOOR DRAIN TRAP SEALER (WATERLESS)									×××	GLOVE VALVE PRESSURE REDUCING VALVE (PRV) CIRCUIT SETTER BALANCING VALVE
FS-1	ZURN Z-1900		12"x12"x6" FLOOR SINK			WHITE AC	ID RESISTIN	IG PORCELAIN TOP					CHECK VALVE EXPANSION JOINT
EWH-1	RHEEM HPLD80-1RH		80 GALLON COMMERCIAL HEAT PUMP WATER HEATER	W/ WATTS T&P RELIEF	40 XL	PROVIDE	w∕ <u>MV−1</u> .	INPUT= 5 KW COVERY = SET DISCHARGE TO 120°F					WATER HAMMER ARRESTER WITH SIZE VENT, VENT RISER, VENT THRU ROOF SEWER, SANITARY SEWER DROP
EXP-1	AMTROL ST-5		2.1 GALLON WATER HEATER EXPANSION TANK	ACCEPTANCE .9 GALLON		OPER. WT						CW, D, R HW, D, R HWR	COLD WATER (DROP)(RISER) HW SUPPLY (DROP)(RISER) HOT WATER RETURN
HWCP-1	ENOVATIVE AUTO RO55A	онот	HOT WATER CIRCULATION PUMP	4 GPM @ 6 87 WATTS, 115V. 1ø	6' HEAD .75 AMPS							THW G	TEMPERED HOT WATER NATURAL GAS LOW PRESSURE
WHA-1	ZURN Z—1700		WATER HAMMER ARRESTOR	SEE PLAN FOR SIZE		PROVIDE STAINLESS WITH CYL	ELMDOR DV S STEEL AC INDER LOCI	V-SS-CL 12"X12" CESS PANEL <				MPG HPG LPG	MEDIUM PRESSURE GAS HIGH PRESSURE GAS PROPANE GAS
wco	ZURN ZS-1446		WALL CLEANOUT			SEE SPEC	CIFICATIONS	FOR TOP				CA DL	COMPRESSED AIR DRAIN LINE
FCO	ZURN ZN-1400		FLOOR CLEANOUT			SEE SPEC	CIFICATIONS	FOR TOP				DS RD AD	DOWN SPOUT ROOF DRAIN AREA DRAIN
MV-1	LEONARD TM—26—LF		THERMOSTATIC MIXING VALVE			PROVIDED ENCLOSU	WITH MAN RE	UFACTURE				AD AC BG	AREA DRAIN ABOVE CEILING BELOW GRADE
HB-1	ZURN Z-1327-EZ-VE	3	VARI TEMP HYDRANT	w/ LOOSE	KEY	NICKEL B BREAKER	RONZE BO>	AND VACUUM				MV WC	MIXING VALVE WATER CLOSET
SH-1	TILE SHOWER		ADA SHOWER HEAD, VALVE AND HAND HELD SHOWER	SYMMONS 3505-H321- SHOWER VA	-V–CYL–1.5 LVE	PROVIDE ZURN ZN	W/ INTEGR -415-B FI	AL SERVICE STOPS _OOR DRAIN				UR LAV S	URINAL LAVATORY SINK
				(A' CALCUL	ATIO	N		SS WM	SERVICE SINK WASHING MACHINE
			PRESSU	RE AVAILAE	BLE AT DIS	CHARGE	OF WELL				50 PSI	DF GD	DRINKING FOUNTAIN GARGABE DISPOSAL
			PRESSU	RE LOSS TH	IRU METER						Ø P91	FHC	FIRE PROTECTION LINE FIRE HOSE CABINET
				RE LOSS DU	· · ·				5 F	-†	2.2 PSI	FHS INV.	FIRE HOSE STANDPIPE INVERT ELEVATION
				RE LOSS FR							0.0 PSI	FG F/G	FINISHED GARDE FUEL GAS
				RE LOSS FR							0.0 PSI	♣P.O.C.	POINT OF CONNECTION
											0.0 PSI	AP CI	ACCESS PANEL CAST IRON
				PRESSURE L RE REQUIRE			DE				2.2 PSI 20.0 PSI	VC	VITRIFIED CLAY CENTER LINE
											27.8 PSI	HDR	HEADER
							/00				125,Ø FT	DN MBH	DOWN THOUSANDS OF BTU PER HOUR
				OF PIPE + 1							143,8 FT	NIPC (P)	NOT IN PLUMBING CONTRACT UNDER PLUMBING CONTRACT
				1 ALLOWAB						19	3.4 PSI/100 FT	D.L.	DEVELOPED LENGTH
	F.U.			<u>۲</u>	LUMB	ING FI	i	TABLE	TOTAL	1			
		FIXT		QTY		MAND	TOTAL CW	HW DEMAND	TOTAL HW	DFU	Total DFU		
F.T	² . F.V.		ER CLOSET (FV)	2	5.		1 <i>0.00</i> FU	Ø	<i>0.00</i> FU	4	8		
3			ATORY	2	1.5	-	2.00 FU	1.0	2.00 FU		2		
8		SINK		2	1. 2.		3.00 FU 4.00 FU	1.5 2.Ø	3.00 FU 4.00 FU		4		
18			SINK	1	3.		3.00 FU	3.Ø	3.00 FU	_	3		
28			MACHINE	1	Ø		0.50 FU		<i>0.00</i> FU	-	1		
46		HOSI	E BIBB (HOT/COLD)	1	ي ا	0	1.00 FU	1.Ø	1.00 FU	Ø	Ø		
111	39					0				2	a		

2022 C alifornia Hanger R	PLUMBING CODE	FD
TABLE	(313.6)	TP
PIPE AND TUBE SIZE	ROD SIZE	
(INCHES)	(INCHES)	FS

(INCHES)	(INCHES)
1/2 - 4	3/8
5 -8	1/2
10 - 12	5/8

Plur	ibing	FIXTU	ire so	Ched	ULE					umbing legend
CRIPTION	TRIM	٨		REMA	RKS			SPECIFIED FIXTURE EMAND (GPM	SYMBOL	DESCRIPTION
PF FLUSH ACCESSIBLE CLOSET	SLOAN ROYA 111–1.28 G	L PF	BEMIS 1955	5SSCT WH	HITE SEAT		GPF	1.28 GPF	и — - —сw — —нw	COLD WATER LINE HOT WATER LINE
SIBLE RY IUNG	CHICAGO (AE E80-A11H- (INTEGRATED TEMPERATUR DEVICE CONI TO ASSE 10	DA) 17ABCP E LIMITING FORMING	ZURN Z1231 DEARBORN B JUST J-ADA- LAV-GUARD CRAFT POLISH TUBE AND C R1520DLS/R	I CARRIER BRASS 704 -115-FS #101 E-2 HED CHRON COMPRESSION 1520AS 0	-1 P-TRAP AND DRAIN TRUEBRO 2 PROVIDE BRASS MUM PLATED COPPER ON SHUT-OFF STOPS R S1715ABC.	.2 GF CYC	PM / CLE	.08 GPM / CYCLE		SANITARY SEWER LINE HORIZONTAL VENT RAIN WATER LEADER CONDENSATE DRAIN CLEAN OUT WALL CLEAN OUT
IT E SINK	AMERICAN ST 8351.076 FA	TANDARD AUCET			798.020 2" TRAP ND RIM GUARD					FLOOR CLEAN OUT YARD CLEAN OUT TO GRADE
5/S DOUBLE MENT SINK 6 1/2" DP	CHICAGO EC/ 2300-8E34A	AST			-35 DRAIN SYSTEM) HANDILAV-GUARD ESSORY					FLOOR DRAIN FLOOR SINK TRAP PRIMER
KER				ONNECTIO	NS w/ WATER					HOSE BIBB GATE VALVE
E FLOOR	W/ TP-1 W/	ATERLESS R	NICKEL BRO							SHUT OFF VALVE BALANCING VALVE GAS COCK
OR DRAIN SEALER RLESS)										GLOVE VALVE PRESSURE REDUCING VALVE (PRV)
."x6" SINK					IG PORCELAIN TOP					CIRCUIT SETTER BALANCING VALVE CHECK VALVE EXPANSION JOINT
LON RCIAL HEAT WATER HEATER	W/ WATTS 4 T&P RELIEF	O XL	OPER.WT. © 208/240 PROVIDE w/ TEMPERATU	/ <u>MV-1</u> .	INPUT= 5 KW COVERY = SET DISCHARGE L TO 120°F				↓₩HA ↓₩HA ↓ V, VR, VTR SS, SSD	WATER HAMMER ARRESTER WITH SIZE VENT, VENT RISER, VENT THRU ROOF SEWER, SANITARY SEWER DROP
LLON HEATER SION TANK	ACCEPTANCE .9 GALLON		OPER. WT.						CW, D, R HW, D, R HWR	COLD WATER (DROP)(RISER) HW SUPPLY (DROP)(RISER) HOT WATER RETURN
ATER ATION	4 GPM @ 6 87 WATTS, . 115V. 1ø	, HEAD 75 AMPS							THW G	TEMPERED HOT WATER NATURAL GAS LOW PRESSURE
HAMMER FOR	SEE PLAN FOR SIZE		PROVIDE EL STAINLESS WITH CYLINI	LMDOR DV STEEL AC DER LOCI	N—SS—CL 12"X12" CCESS PANEL K				MPG HPG LPG	MEDIUM PRESSURE GAS HIGH PRESSURE GAS PROPANE GAS
CLEANOUT			SEE SPECIF	FICATIONS	FOR TOP				CA DL	COMPRESSED AIR DRAIN LINE
CLEANOUT			SEE SPECIF	FICATIONS	FOR TOP				DS RD AD	DOWN SPOUT ROOF DRAIN AREA DRAIN
OSTATIC VALVE			PROVIDED V ENCLOSURE	WITH MAN	UFACTURE				AC BG	ABOVE CEILING BELOW GRADE
	w/ LOOSE K	KEY	NICKEL BRO BREAKER	ONZE BO	AND VACUUM				MV WC	MIXING VALVE WATER CLOSET URINAL
HOWER HEAD, AND HAND SHOWER	SYMMONS 3505-H321-V SHOWER VAL	V–CYL–1.5 VE	PROVIDE W, ZURN ZN-4	/ INTEGR 415–B Fl	AL SERVICE STOPS LOOR DRAIN				UR LAV S	LAVATORY SINK
	<u> </u>				A' CALCUL	ATIC	νN		SS WM	SERVICE SINK WASHING MACHINE
PRESSU	RE AVAILAB	LE AT DIS	CHARGE OF	= WELL				50 PS		DRINKING FOUNTAIN GARGABE DISPOSAL
PRESSU	RE LOSS THE	RU METER						Ø P3	I FHC	FIRE PROTECTION LINE FIRE HOSE CABINET
	RE LOSS DU					51	=†	2.2 PS	HI INV.	FIRE HOSE STANDPIPE
	RE LOSS FRO			INTER				0.0 PS	41 22	FINISHED GARDE FUEL GAS
	RE LOSS FRO							0.0 PS 0.0 PS	P.O.C.	POINT OF CONNECTION
	PRESSURE LO							2.2 PS		ACCESS PANEL CAST IRON
				E				2 <i>0.0</i> PS		VITRIFIED CLAY CENTER LINE
PRESSU	RE AVAILAB	BLE FOR FR	RICTION LOS	35				27.8 PS	HĎR I DN	HEADER DOWN
TOTAL I		LENGTH C	OF RUN					125.Ø F1	-] мвн	THOUSANDS OF BTU PER HOUR
LENGTH	OF PIPE + 15	5% FOR FIT	TINGS					143,8 F1		NOT IN PLUMBING CONTRACT UNDER PLUMBING CONTRACT
MAXIMU	M ALLOWABL	E FRICTIO	N LOSS				19,	4 PSI/100 F1	D.L.	DEVELOPED LENGTH
	p.	LUMBI	ING FIX		TABLE]	
	QTY	CW DE		TOTAL CW	HW DEMAND	TOTAL HW	DFU	Total DFU		
BET (FY)	2	5.0		0.00 FU	0	0.00 FU		8	4	
	2 2	<u>م.ا</u> ١.٤		2 <i>.00</i> FU 3 <i>.00</i> FU	1.Ø 1.5	2.00 FU 3.00 FU	_	2 4	-	
	2 2	2.0		4.00 FU	2.Ø	4.00 FU	_	6	1	
	1	3.0		3 <i>.00</i> Fu	3.Ø	3 <i>.00</i> Fu	_	3]	
	1	Ø.		0.50 FU	Ø	<i>0.00</i> FU		1	4	
(HOT/COLD)) 1	1.@		1.00 FU	1.0	1.00 FU	_	0	4	
INI	, <u>,</u> , ,	<u>_</u>					1 2	, a	1	

DOMESTIC COLD U	UATER SIZING	CHART	Γ
	F.	u.	
	F.T.	F.Y.	
ال ₂ "	3		
3⁄4 "	10		
1"	19		
11⁄4 "	54	13	
11/2 "	90	3Ø	
2"	236	116	
2 ¹ ⁄2"	431	295	

2"	236	116	
2 ¹ ⁄2"	431	295	
THE SIZING CHART THE 2022 CPC APF		ON	1

THE WITH A AP OF 10.0 PSI PER 100 FT W/ MAXIMUM VELOCITY OF 8ft/SEC. DOMESTIC WATER PIPE SIZE 1⁄2 " ³⁄4 " 1" 11/4 " 11/2" 2" 39 111 2½" 236 116

THE SIZING CHART IS BASED ON
THE 2022 CPC APPENDIX 'A'
WITH A ∆P OF 10.0 PSI PER 100 FT
W/ MAXIMUM VELOCITY OF 5ft/SEC.

	PL	JUM	BING	FIXTU	jre s	CHED	ULE				PL	umbing	Legend				
DDEL	DESCRIPTIO	DN	TRI	м		REMAR	RKS			SPECIFIED FIXTURE DEMAND (GPM)	SYMBOL	DESCRIPTION					
NDARD	1.28 GPF FLU VALVE ACCESS WATER CLOSE	JSH SIBLE	SLOAN ROY, 111-1.28 (AL GPF	BEMIS 19	55SSCT WH	IITE SEAT		8 GPF	1.28 GPF	— - — CW — — HW	COLD WATER HOT WATER I					
NDARD	ACCESSIBLE LAVATORY WALL HUNG		CHICAGO (A E80-A11H- (INTEGRATEL TEMPERATUI DEVICE CON TO ASSE 10	NDA) -17ABCP D RE LIMITING NFORMING	ZURN Z12 DEARBORN JUST J-AD LAV-GUARL CRAFT POLI TUBE AND R1520DLS	31 CARRIER BRASS 704 A-115-FS D #101 E-Z SHED CHROM COMPRESSIC /R1520AS 0	-1 P-TRAP AND DRAIN TRUEBRO PROVIDE BRASS IUM PLATED COPPER DN SHUT-OFF STOP R S1715ABC.	.2 (.2 (C	GPM / YCLE	.08 GPM / CYCLE		SANITARY SEV HORIZONTAL RAIN WATER CONDENSATE CLEAN OUT WALL_CLEAN	VENT LEADER DRAIN OUT				
NDARD 2.008	UPRIGHT SERVICE SINK		AMERICAN S 8351.076 F	STANDARD AUCET	AMERICAN w/ WALL	STANDARD 7 HANGER AI	798.020 2" TRAP ND RIM GUARD				FCO TO TO TO TO TO	FLOOR CLEAN YARD CLEAN FLOOR DRAIN	OUT TO GRADE				
–A–GR	18 GA. S/S DOUB COMPARTMENT SIN 21 x37 x6 1/2" D	BLE IK DP	CHICAGO EC 2300-8E34	CAST ABCP	w/ (2) JU COMPLETE #102 W/	JST J-ADA- W/ TRUBRO #105 ACC	·35 DRAIN SYSTEM HANDILAV-GUARD ESSORY					FLOOR SINK TRAP PRIMER					
S	ICE MAKER BOX				COPPER (HAMMER /	CONNECTION ARRESTORS	NS w/ WATER				→ HB → ☆ SOV	HOSE BIBB GATE VALVE SHUT OFF VA					
	SQUARE FLOO DRAIN		w/ <u>TP-1</u> V TRAP PRIME	VATERLESS ER	NICKEL BI STRAINER	RONZE HEE	L-PROOF					BALANCING V GAS COCK	ALVE				
AL.	2" FLOOR DR/ TRAP SEALER (WATERLESS)												EDUCING VALVE (PRV) ER BALANCING VALVE				
	12"x12"x6" FLOOR SINK						G PORCELAIN TOP					CHECK VALVE					
	80 GALLON COMMERCIAL H PUMP WATER H	HEAT IEATER	W/ WATTS T&P RELIEF	40 XL	PROVIDE	w∕ <u>MV−1</u> .	INPUT= 5 KW COVERY = SET DISCHARGE TO 120°F				SS, SSD	VENT, VENT I SEWER, SANI ⁻	ER ARRESTER WITH SIZE RISER, VENT THRU ROOF TARY SEWER DROP				
	2.1 GALLON WATER HEATER EXPANSION TA	R	ACCEPTANCE .9 GALLON	VOLUME=	OPER. WT						CW, D, R HW, D, R HWR	COLD WATER HW SUPPLY HOT WATER F	(DROP)(RISER) (DROP)(RISER)				
гонот	HOT WATER CIRCULATION PUMP		4 GPM @ 6 87 WATTS, 115V. 1ø	6' HEAD .75 AMPS							THW G	TEMPERED HO NATURAL GAS	OT WATER 5 LOW PRESSURE				
	WATER HAMME ARRESTOR	ER	SEE PLAN FOR SIZE		PROVIDE STAINLESS	ELMDOR DW S STEEL AC	V—SS—CL_12"X12' CESS_PANEL <	,			MPG HPG LPG	MEDIUM PRES HIGH PRESSU PROPANE GAS	JRE GAS				
	WALL CLEANOU	UT				CIFICATIONS					CA DL	COMPRESSED					
	FLOOR CLEAN	Ουτ			SEE SPEC	FICATIONS	FOR TOP				DS RD	DOWN SPOUT ROOF DRAIN					
	THERMOSTATIC MIXING VALVE	;			PROVIDED	PROVIDED WITH MANUFACTURE					AD AC BG	AREA DRAIN ABOVE CEILIN BELOW GRAD					
′B	VARI TEMP HYDRANT		w/ LOOSE	KEY			AND VACUUM				MV WC	MIXING VALVE	-				
	ADA SHOWER VALVE AND HA HELD SHOWER	HEAD, AND	SYMMONS 3505-H321- SHOWER VA	-V–CYL–1.5 J VF	PROVIDE ZURN ZN:	W/ INTEGR/ -415-B FL	AL SERVICE STOPS	5			UR LAV S	URINAL LAVATORY SINK					
							A' CALCUL	_ATIC	- DN		SS WM	SERVICE SINK WASHING MAC	CHINE				
	PF	RESSUR	RE AVAILA							50 PSI	DF GD F	DRINKING FO GARGABE DIS FIRE PROTEC	POSAL				
			RE LOSS TH						E +	Ø PSI	FHC FHS	FIRE HOSE C	ABINET				
			re loss di Re loss fr			22 PSI 22 PSI 20 PSI					INV. FG	INVERT ELEVA	ATION				
										<i>0.0</i> PSI	F/G	FUEL GAS					
	PF	RESSUR	re loss fr	ROM OTHER	DEVICES					<i>0.0</i> PSI	◆ P.O.C. AP	ACCESS PAN					
	тс	DTAL P	RESSURE L	.065						2.2 PSI		CAST IRON VITRIFIED CLA					
			re require			-				20.0 PSI	С НDR	CENTER LINE HEADER					
						065				27.8 PSI	DN MBH	DOWN	OF BTU PER HOUR				
			OF PIPE + 1		• • • •					125.Ø FT 143.8 FT	NIPC	NOT IN PLUM	IBING CONTRACT				
			1 ALLOWAB						10	143.8 FT	D.L.	DEVELOPED L	BING CONTRACT LENGTH				
							TABLE										
FIX1						TOTAL		TOTAL	- DFU	Total DFU							
		()	2		Ø	CW 10.00 FU	Ø	HW 0.00 F	-u 4	8							
LAV	ATORY		2	1.4	Ø	2 <i>.00</i> FU	1.Ø	2.00 F	u 1	2							
SINK			2	1,1		3.00 FU	1.5	3.00 F		4							
	DWER D SINK		2		0 0	4.00 FU 3.00 FU	2.Ø 3.Ø	4.00 F 3.00 F		6							
	MACHINE		1	 		0.50 FU	 Ø	0.00 F									
ное		COLD)	1	1.0	0	1.00 FU	1.0	1.00 F		Ø							
FL <i>O</i>	or drain		4	Ø.	.0	<i>ø.øø</i> fu	Ø	<i>0.00</i> F	-น 2	8							
TOTAL WATER DEMAND (FU) 23.					23.50 FU		13 <i>.00</i> F	=u									
TOTAL GPM 37 GPM																	
TOT	AL SANITARY S	BEWER	DEMAND							32							

Mosquito Vector	2000 Santa Fe Ave Modesto, CA
Drawn By Checked Job # Scale	23-785 Noted
¢.	INC. 39) 227-7646



2132 N El Dorado St Stockton, CA 95204 (209) 227-7646

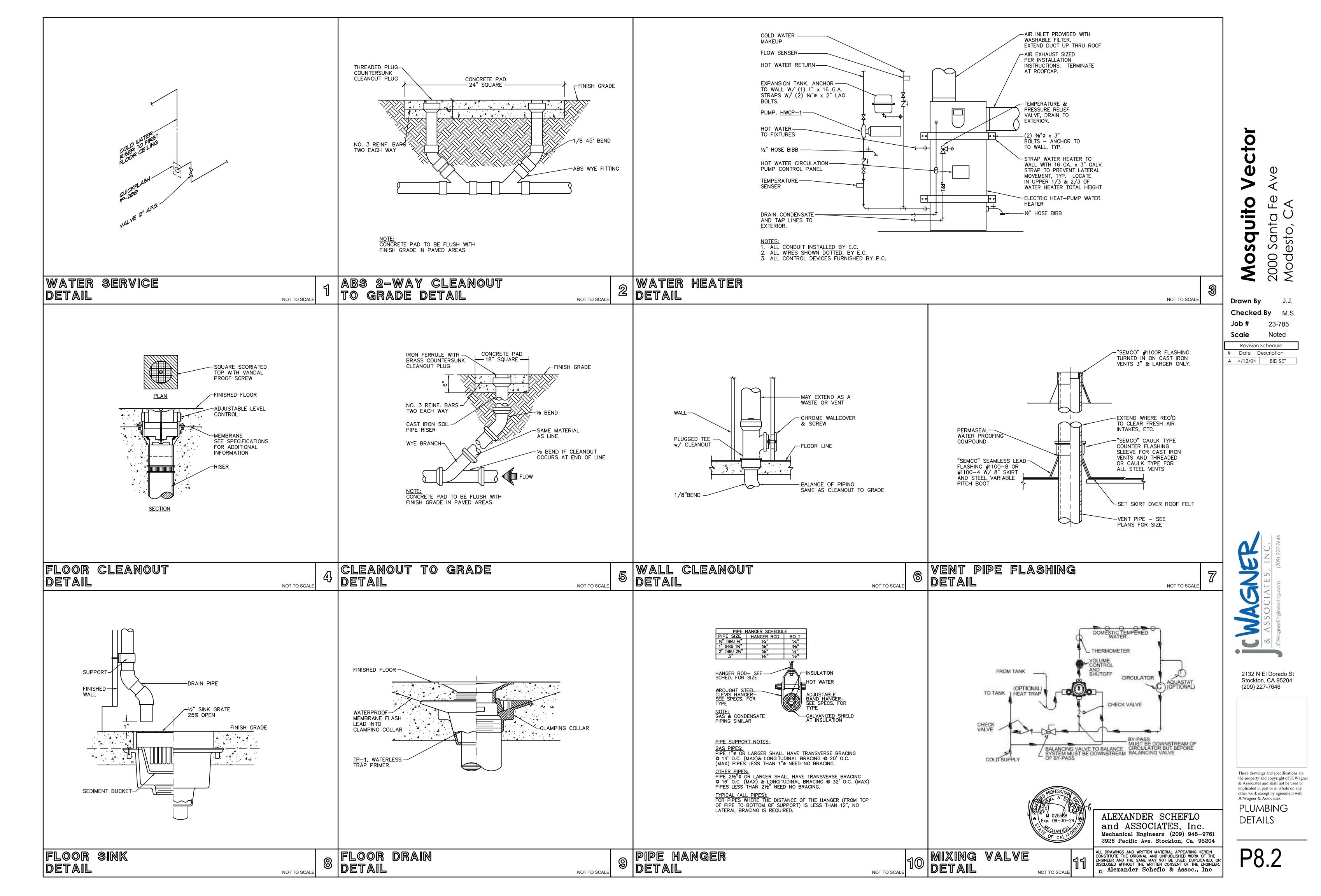
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PLUMBING SCHEDULES & DETAILS

P8.1



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PLUMBING SPECIFICATIONS

PART I GENERAL

1.01 GENERAL CONDITIONS:

A. THE CONTRACTOR SHALL FURNISH ALL PLANT, LABOR, EQUIPMENT, AND SHALL PERFORM ALL OPERATIONS IN CONNECTION WITH THE PLUMBING SYSTEM(S) AS OUTLINED IN THE DRAWINGS AND IN STRICT ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT. ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH CAN REASONABLY BE TAKEN OR INFERRED AS BELONGING TO THE WORK AND NECESSARY TO PROVIDE THE SYSTEM DESCRIBED OR SHOWN SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE WORK SHALL BE COMPLETE AND READY FOR SERVICE AS SHOWN AND/OR SPECIFIED, AND BE SATISFACTORY TO THE ARCHITECT.

B. REFER TO ARCHITECTURAL SPECIFICATIONS FOR CORRELATIONS AND GENERAL REQUIREMENTS.

1.02 WORK INCLUDED:

A. THE SYSTEMS TO BE INSTALLED CONSIST ESSENTIALLY OF THE FOLLOWING:

- SANITARY SEWER PIPING AND WATER PIPING.
- PLUMBING FIXTURES. TRENCHING AND BACKFILL.
- TESTING AND ADJUSTMENT OF THE PLUMBING SYSTEM.
- OTHER ITEMS AS MAY BE SPECIFIED OR SHOWN ON THE DRAWINGS.

1.03 WORKMANSHIP: WHERE OTHER INSTRUCTIONS ARE NOT GIVEN, EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE MANUFACTURER AND THE BEST STANDARD PRACTICE FOR THIS TYPE OF WORK.

1.04 RULES, REGULATIONS, AND CODES:

A. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES, CODES, AND REGULATIONS OF THE FOLLOWING:

PART I 2022 CALIFORNIA ADMINISTRATIVE CODE PART 2 2022 CALIFORNIA BUILDING CODE

PART 3 2022 CALIFORNIA ELECTRICAL CODE

- PART 4 2022 CALIFORNIA MECHANICAL CODE
- PART 5 2022 CALIFORNIA PLUMBING CODE PART 6 2022 CALIFORNIA ENERGY CODE
- PART 9 2022 CALIFORNIA FIRE CODE
- PART 10 2022 CALIFORNIA EXISTING BUILDING CODE PART II 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (Cal Green)

B. RULING AND INTERPRETATIONS OF THE ENFORCING AGENCY WILL BE CONSIDERED PART OF THE REGULATIONS.

C. NOTHING IN THESE SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE, AND EXPENSE IN COMPLIANCE WITH THE ABOVE SHALL BE BORNE BY THE CONTRACTOR.

D. WHENEVER THE SPECIFICATIONS AND DRAWINGS REQUIRE HIGHER STANDARDS OR LARGER SIZES THAN THOSE REQUIRED BY THE ORDINANCES AND STATUTES, THE SPECIFICATIONS AND DRAWINGS SHALL TAKE PRIORITY OVER THE SPECIFIC ORDINANCES AND STATUTES.

1.05 <u>SITE EXAMINATION AND CONDITIONS:</u> THIS CONTRACTOR SHALL EXAMINE THE SITE, VERIFY DIMENSIONS AND LOCATIONS AGAINST THE DRAWINGS AND INFORM HIMSELF OF ALL CONDITIONS UNDER WHICH WORK IS TO BE DONE BEFORE SUBMITTING HIS PROPOSAL. NO ALLOWANCE WILL BE MADE IN HIS BEHALF FOR EXTRA EXPENSE ON ACCOUNT OF ERROR

1.06 AS BUILT DRAWINGS:

A. SUPPLEMENTING THE REQUIREMENTS OF THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL SUPPLEMENTARY GENERAL CONDITIONS, AS-BUILT DRAWINGS SHALL SHOW INVERT ELEVATIONS OF SANITARY SEWERS, RAIN WATER LEADERS AND STORM SEWERS OF CRITICAL LOCATIONS, LOCATIONS OF SHUT-OFF VALVES AND STUB-OUTS FOR FUTURE, AND ALL CHANGES MADE DURING THE COURSE OF THE WORK. FURNISH REPRODUCIBLE DRAWINGS WHEN WORK IS COMPLETE.

B. THE GRADE OR QUALITY OF MATERIALS DESIRED IS INDICATED BY THE TRADE NAMES OR CATALOG NUMBERS STATED HEREIN.

C. DIMENSIONS, SIZES, AND CAPACITIES SHOWN ARE A MINIMUM AND SHALL NOT BE CHANGED WITHOUT PERMISSION OF THE ARCHITECT

1.07 MATERIAL LIST AND SUBSTITUTIONS:

A. PRIOR TO COMMENCEMENT OF WORK, AND WITHIN 35 DAYS AFTER SIGNING OF THE CONTRACT BY THE OWNER AND GENERAL CONTRACTOR, THIS CONTRACTOR SHALL SUBMIT IN QUINTUPLE TO THE ARCHITECT FOR APPROVAL A COMPLETE LIST OF EQUIPMENT AND MATERIALS TO BE FURNISHED, INCLUDING ALL SUBSTITUTIONS. PARTIAL OR INCOMPLETE LISTS OF MATERIALS WILL NOT BE CONSIDERED. NO SUBSTITUTIONS WILL BE CONSIDERED THEREAFTER. ONLY ONE (1) REQUEST FOR SUBSTITUTION WILL BE CONSIDERED ON EACH ITEM OF MATERIAL OR EQUIPMENT

B. IF THE CONTRACTOR DESIRES TO MAKE A SUBSTITUTION, HE SHALL SUBMIT COMPLETE INFORMATION OR CATALOG DATA TO SHOW THE QUALITY OF THE EQUIPMENT OR MATERIAL OFFERED TO THAT SPECIFIED. NO SUBSTITUTION WILL BE ALLOWED UNLESS REQUESTED AND APPROVED IN WRITING. MATERIALS OF EQUAL MERIT AND APPEARANCE IN THE OPINION OF THE ARCHITECT WILL BE APPROVED FOR USE. ARCHITECT RESERVES THE RIGHT TO REQUIRE ORIGINALLY SPECIFIED ITEM.

C. INSTALLATION OF APPROVED SUBSTITUTION IS THE CONTRACTOR'S RESPONSIBILITY. ANY CHANGES REQUIRED FOR INSTALLATION OF APPROVED SUBSTITUTED EQUIPMENT MUST BE MADE WITHOUT ADDITIONAL COST.

D. SUBMIT TO ARCHITECT FOR APPROVAL, WITHIN A REAGONABLE TIME AFTER AWARD OF CONTACT AND IN AMPLE TIME TO AVOID DELAY OF CONSTRUCTION, SHOP DRAWINGS OR SUBMITTALS ON ALL ITEMS OF EQUIPMENT AND MATERIALS COVERED IN LIST MENTIONED ABOVE. SHOP DRAWINGS SHALL BE SUBMITTED IN FIVE (5) COPIES AND IN A COMPLETE PACKAGE. PARTIAL SUBMITTALS WILL NOT BE CONSIDERED.

1.08 FEES, PERMITS, AND UTILITY SERVICES: THIS CONTRACTOR SHALL ARRANGE TO OBTAIN AND TO PAY FOR ALL PERMITS AND SERVICE CHARGES REQUIRED IN THE INSTALLATION OF HIS WORK, ARRANGE FOR REQUIRED INSPECTIONS, AND SECURE APPROVALS FROM AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL ARRANGE FOR UTILITY CONNECTIONS AND PAY CHARGES INCURRED, INCLUDING EXCESS SERVICE CHARGES, IF ANY.

1.09 GUARANTEE: AFTER COMPLETION OF THE INSTALLATION OF EQUIPMENT HEREIN SPECIFIED, THE CONTRACTOR SHALL GUARANTEE SAME AGAINST DEFECTS OF WORKMANSHIP OR MATERIAL FOR A PERIOD OF ONE (1) YEAR. IF, WITHIN THE SPECIFIED PERIOD FROM THE DATE OF ACCEPTANCE ANY OF THE SYSTEM IS PROVEN TO BE DEFECTIVE IN WORKMANGHIP AND/OR MATERIAL, IT WILL BE ADJUSTED, REPAIRED, OR REPLACED FREE OF CHARGE BY THIS CONTRACTOR.

1.10 ACCESSIBILITY CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUFFICIENCY OF SIZE AND THICKNESS OF PARTITIONS FOR ADEQUATE INSTALLATION OF HIS WORK. ANY EQUIPMENT REQUIRING ACCESS FOR OPERATION OR SERVICE SHALL BE MADE ACCESSIBLE BY THE USE OF ACCESS DOORS AS REQUIRED.

PART 2 PRODUCTS

2.01 MATERIAL: PIPE:

- A. SANITARY SEWER PIPING INSIDE BUILDING SHALL BE APACHE SCHEDULE 40 DWV ABS PIPE AND FITTINGS (ALL AS ALLOWED BY LOCAL CODE).
- ALL PIPING THAT RECEIVES DRAINAGE FROM SODA
- FOUNTAINS SHALL BE PVC ACID RESISTANT PIPING TO A
- POINT SHOWN ON THE PLUMBING SEWER PLANS FAR ENOUGH AWAY THAT THE DRAINAGE WILL BE DILUTED. (6 FIXTURES
- UNITS OF DOWNSTREAM DRAINAGE)
- B. DOMESTIC WATER PIPING:
- A. ABOVE GROUND: TYPE "L" COPPER TUBING. WROUGHT COPPER OR CAST BRONZE SWEAT FITTINGS.
- 1) PIPING 3 INCHES AND ABOVE: BRAZED.
- 2) PIPING 2-1/2 INCHES AND SMALLER: SOLDERED (95/5 SOLDER) JOINTS. 3) APPROVED FILLERS:
- a) PRESSURE RANGE 81 TO 150 PSI AND TEMPERATURES 151°F TO 200°F: 95/5 TIN-ANTIMONY OR SILVER-BEARING SOLDERS, I.E., ALLSTATE 430, HARRIS STAY BRITE 5 OR 8.
- b) USE APPROPRIATE FLUX PER MANUFACTURER'S RECOMMENDATIONS. USE OF CORROSIVE FLUXES IS PROHIBITED.
- B. BELOW GROUND: TYPE "K" COPPER TUBING WITH BRAZED JOINTS. APROVED FILLERS: "PHOS Ø," "SILFOS 5," "AIRCOSIL 15," "BRAZE 450(DE)." USE APPROPRIATE FLUX PER MANUFACTURER'S RECOMMENDATIONS.
- C. PROVIDE "ECOFF" DIELECTRIC UNIONS AT ALL COPPER TO STEEL CONNECTIONS.
- C. CONDENSATE LINES SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE WITH GALVANIZED MALLEABLE IRON FITTINGS OR TYPE 'M' COPPER. CONDENSATE LINES BELOW THE ROOF AND CONCEALED AREAS SHALL BE COVERED WITH INSULATION.

2.02 PIPE INSULATION:

A. THE HOT WATER SUPPLY AND RETURN PIPING ABOVE SLAB OR GROUND EXCEPT EXPOSED RUNOUTS TO FIXTURES AND UNIONS AND VALVES SHALL BE COVERED WITH 1" THICK INSULATION FOR PIPE 1/2" THROUGH 1" IN DIAMETER, 14" PIPE DIAMETER SHALL BE COVERED WITH 14" THICK INSULATION, 12" PIPE DIAMETER SHALL BE COVERED 12" THICK INSULATION, AND 2" PIPE AND LARGER PIPE SHALL BE COVERED IN 2" THICK INSULATION. THE INSULATION SHALL BE MANVILLE FLAME SAFE: ONE PIECE CONSTRUCTION PREFORMED FIBERGLASS PIPE INSULATION, OR APPROVED EQUAL, WITH A "K" FACTOR OF 22 MAXIMUM AT 15 DEGREES MEAN TEMPERATURE.

2.Ø3<u>VALVES:</u>

- A. GATES: CRANE #438, 2" AND UNDER. CRANE 461 2-1/2" AND OVER.
- B. SOLDER JOINTS VALVES IN COPPER LINES. CRANE 1324 OR 438 WITH ADAPTERS.
- 2.04 <u>VALVE BOXES:</u> FURNISH AND INSTALL FOR EACH VALVE IN GROUND A BROOKS, CHRISTY, OR EQUAL TO BROOKS PRODUCTS COMPANY *9 OPEN BOTTOM CONCRETE VALVE BOX WITH COVER MARKED FOR SERVICE.

2.05 FIXTURES:

- A. FIXTURES SHALL BE PER CONSTRUCTION DOCUMENTS OR EQUAL. SUBMIT FIVE (5) PORTFOLIOS WITH FULL DESCRIPTION AND CUTS OF FIXTURES AND TRIM PROPOSED FOR USE TO ARCHITECT FOR WRITTEN APPROVAL.
- B. FIXTURES SHALL BE AS SCHEDULED ON THE DRAWINGS
- C. PLATE NUMBERS INDICATED ARE AMERICAN STANDARD, COMPLETE AS ILLUSTRATED AND DESCRIBED UNLESS OTHERWISE NOTED. PROVIDE STOPS AS HEREIN BEFORE SPECIFIED FOR ALL CONCEALED SUPPLIES

PART 3 EXECUTION

3.01 FRAMING, CUTTING AND PATCHING: SPECIAL FRAMING, RECESSES, CHASES, AND BACKING FOR WORK OF THIS SECTION, UNLESS OTHERWISE SPECIFIED, IS COVERED UNDER OTHER SECTIONS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PLACEMENT OF ALL PIPE SLEEVES, HANGERS, AND SUPPORTS AND LOCATION OF OPENINGS FOR WORK OF THIS SECTION.

3.02 EXCAVATION AND BACKFILL:

- A. THIS CONTRACTOR SHALL DO ALL EXCAVATING REQUIRED FOR THE INSTALLATION OF ALL PIPING AND OTHER WORK THAT APPLIES TO THE WORK OF THIS CONTRACTOR INDICATED ON THE DRAWINGS.
- B. EXCAVATIONS SHALL BE OF OPEN VERTICAL CONSTRUCTION OF SUFFICIENT WIDTH TO PROVIDE FREE WORKING SPACE AT BOTH SIDES OF THE TRENCH AND AROUND THE PIPE AS REQUIRED FOR JOINING, BACKFILL AND COMPACTING, WHERE INVERT ELEVATIONS ARE NOT SHOWN, TRENCHES SHALL BE DUG TO SUFFICIENT DEPTH TO GIVE A MINIMUM OF SIX INCHES (6") OF FILL ABOVE THE TOP OF PIPING, MEASURED FROM THE UNDERSIDE OF THE CONCRETE SLAB.
- C. METHOD OF COMPACTION SHALL BE AS DIRECTED BY PROJECT INSPECTOR. BACKFILL SHALL BE COMPACTED 95%, OR TO THE ORIGINAL DENSITY OF THE SOIL BEFORE

3.03 PIPING INSTALLATION:

- A. <u>GENERAL:</u>
- AND APPROVAL

- 5. PIPING SHALL BE CONCEALED IN ALL LOCATIONS UNLESS OTHERWISE NOTED ON THE
- DRAWINGS.

B. JOINTING:

3.04 CARE AND CLEANING:

3.06 TEST OF PIPING:

TEST PRESSURES INDICATED.

TEST SCHEDULE

SYSTEM TESTED

ALL SOIL, WAST DRAIN & VENT PIPING WITHIN BUILDING.

ALL HOT AND C WATER.

INSPECTOR.

GAS PIPING. WITH NO PERCEPTIBLE DROP IN PRESSURE.

CONTRACTOR.

3.07 CLOSING IN OF UNINSPECTED WORK:

- APPROVED.
- END OF PLUMBING SPECIFICATIONS

1. NO PIPING SHALL BE PERMANENTLY COVERED BY CONSTRUCTION BEFORE INSPECTION

2. PROVISIONS SHALL BE MADE FOR THE EXPANSION AND CONTRACTION OF ALL PIPING, USING SWING JOINTS MADE UP OF FITTINGS, OR BENDS, OR OTHER METHODS OR DEVICES AS APPROVED. 3. CONNECTION OF PIPING OR EQUIPMENT OF DISSIMILAR MATERIALS SHALL BE MADE

WITH DIELECTRIC COUPLINGS OR WITH FLANGES AND INSULATING GASKETS EPCO, OR 4. INSTALL WATER PIPING GENERALLY LEVEL, FREE OF TRAPS AND UNNECESSARY

BENDS TO CONFORM WITH BUILDING REQUIREMENTS, AND PROVIDE SPACE FOR OTHER

6.INSTALL PIPING PROMPTLY, CAPPING AND PLUGGING OPEN ENDS.

1. THREADED JOINTS SHALL HAVE TAPERED EVENLY OUT AND SHALL BE MADE WITH

GRAPHITE COMPOUND OR POLYTETRAFLOURETHYLENE TAPE APPLIED TO THE MALE THREADS ONLY. AFTER CUTTING AND BEFORE THREADING, PIPE SHALL BE REAMED AND SHALL HAVE BURRS REMOVED CAULKING OF THREADED JOINTS TO STOP OR PREVENT LEAKS WILL NOT BE PERMITTED.

2. WELDED JOINTS: CHANGES IN DIRECTION OF PIPING SHALL BE MADE WITH WELDED FITTINGS OF FORGED-BRANCH-CONNECTION FITTINGS, METERING OR NOTCHING PIPE TO FORM ELBOWS AND TEES, OR OTHER SIMILAR FITTINGS, WILL NOT BE PERMITTED. 3. SOLDER JOINTS IN COPPER TUBING FOR ALL INSTALLATIONS (HEATING, REFRIGERATING, AND PLUMBING) SHALL BE MADE WITH SIL-FOS SILVER BRAZING ALLOY. SURFACES TO BE JOINTED SHALL BE FREE OF OIL, GREASE, RUST AND OXIDES. AFTER CLEANING AND BEFORE ASSEMBLY OR HEATING, SUPPLY HANDY-FLUX TO EACH JOINT

SURFACE AND SPREAD EVENLY. HEAT SHALL BE APPLIED CAREFULLY WITH AN OXY-ACETYLENE TORCH TO AVOID OVERHEATING FITTINGS, VALVES, EXCTINE 95

ONLY WITH PRIOR APPROVAL FOR PIPING 2" AND SMALLER, ONLY.

4. STEEL PIPE AND CONNECTIONS:

A) SHALL HAVE ENDS REAMED TO FULL INSIDE DIAMETER AND BEVELED BEFORE BEING MADE UP INTO FITTINGS.

B) ALL CHANGES IN DIRECTION TO BE MADE WITH PROPER FITTINGS. C) ALL SCREWED CONNECTIONS TO BE METAL TO METAL TIGHT

D) JOINTS BETWEEN PIPE AND FITTINGS TO BE MADE WITH THREADS FULLY COATED WITH KEY'S THREAD PASTER. PASTE IS TO BE APPLIED TO MALE THREAD. E) UNIONS TO BE PLACED ADJACENT TO ALL SCREWED VALVES, CHECK VALVES, OR EQUIPMENT WHICH HAS NO UNION CONNECTIONS. UNIONS ON WATER PIPES ON FIXTURES SIDE OF TRAPS MAY BE SLIP FLANGE JOINTS WITH SOFT RUBBER OR LEAD GASKETS.

5. CAST IRON PIPE JOINTS AND CONNECTIONS: A) JOINTS SHALL BE MADE WITH STAINLESS STEEL COUPLING NO-HUB TYPE.

B) ALL CHANGES IN DIRECTION TO BE MADE WITH PROPER FITTINGS.

C) ALL SCREWED CONNECTIONS TO BE METAL TO METAL TIGHT. D) CLEANOUTS TO BE LOCATED NOT LESS THAN 18" FROM BUILDING CONSTRUCTION FOR EASE OF RODDING.

E) USE GRAPHITE ON ALL CLEANOUT THREADS.

C. <u>PIPING CUTTING</u>: PIPE CUTTING SHALL BE DONE WITHOUT DAMAGE TO THE PIPE UNLESS OTHERWISE AUTHORIZED BY THE ARCHITECT, CUTTING SHALL BE DONE BY MEANS OF AN APPROVED TYPE OF MECHANICAL CUTTER. WHEEL CUTTERS SHALL BE USED WHERE PRACTICABLE. ON PIPE 6" (SIX INCHES) AND LARGER, AN APPROVED GAS-CUTTING-BEVELLING MACHINE MAY BE USED.

A. ALL BROKEN, DAMAGED, OR OTHERWISE DEFECTIVE PARTS OF THIS WORK SHALL BE REPAIRED OR REPLACED BY THIS CONTRACTOR, AT HIS EXPENSE, AND THE ENTIRE WORK LEFT IN A CONDITION SATISFACTORY TO THE ARCHITECT. AT COMPLETION THIS CONTRACTOR SHALL CAREFULLY CLEAN AND ADJUST ALL EQUIPMENT, FIXTURES, AND TRIM WHICH ARE INSTALLED AS PART OF HIS WORK AND THE SYSTEMS AND EQUIPMENT LEFT IN SATISFACTORY OPERATING CONDITION.

3.05 WATER SYSTEM STERILIZATION: AFTER FLUSHING, ENTIRE WATER SYSTEM FROM NEW POINTS OF CONNECTION SHALL BE STERILIZED BEFORE BEING TURNED OVER TO THE OWNER FOR USE, SLOWLY FILL SYSTEM WITH WATER AND ADD CHLORINE CHEMICAL AGENT TO PRODUCE A MINIMUM OF 50 PPM OF CHLORINE IN ENTERING WATER. TREATED WATER SHALL BE RETAINED IN PIPE OVERNIGHT, CHLORINE REGIDUAL AT PIPE EXTREMITIES SHALL BE AT LEAST 5 PPM AT END OF THIS TIME. SHOULD CHLORINE RESIDUAL BE LESS THAN THIS AMOUNT, PIPE SHALL BE RE-CHLORINATED.

A. ALL PIPING SHALL BE TESTED AT COMPLETION OF ROUGHING IN, IN ACCORDANCE WITH THE FOLLOWING SCHEDULE AND SHOULD SHOW NO LOSS IN PRESSURE OR VISIBLE LEAKS AFTER A MINIMUM DURATION OF FOUR HOURS AT THE

Ε			
>	TEST PRESSURE PSIG	TEST WITH	
ſE,	FILL WITH WATER TO TOP OF HIGHEST VENT, ALLOW TO STAND TWO (2) HOURS OF LONGER AS DIRECTED BY	WATER	
COLD	100 LBS. FOR 15 MINUTES WITHOUT LEAKS.	WATER	
PTIBLE	15 LB. FOR 30 MINUTES	AIR	

B. TESTING EQUIPMENT, MATERIALS AND LABOR SHALL BE FURNISHED BY THIS

A. THIS CONTRACTOR SHALL NOT ALLOW OR CAUSE ANY OF THE WORK INSTALLED BY HIM TO BE COVERED UP OR ENCLOSED BEFORE IT HAS BEEN INSPECTED, TESTED AND

B. SHOULD ANY OF THE WORK BE ENCLOSED OR COVERED UP BEFORE IT HAS BEEN APPROVED, HE SHALL, AT HIS EXPENSE, UNCOVER THE WORK. AFTER IT HAS BEEN TESTED, INSPECTED, AND APPROVED, HE SHALL MAKE ALL REPAIRS NECESSARY TO RESTORE THE WORK OF OTHER CONTRACTORS TO THE CONDITION IN WHICH IT WAS FOUND AT THE TIME OF CUTTING.





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ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE THE ORIGINAL AND UNPUBLISHED WORK OF THE ENGINEER AND THE SAME MAY NOT BE USED, DUPLICATED, (DISCLOSED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER Alexander Scheflo & Assoc., Inc

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Drawn By Checked Job # Scale Revision Sa Date De 4/12/04	23-7 Note	ed e
<u>E</u>	5 , INC. (209) 227-7646	
IC WAGN	& ASSOCIATE JCWaanerEnaineering.com	

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PLUMBING **SPECIFICATION** 260500 ELECTRICAL WORK FOR COMMON RESULTS:

1. ELECTRICAL INSTALLATION SHALL COMPLY WITH TITLE 24, CALIFORNIA

CODE OF REGULATIONS, INCLUDING THE FOLLOWING: TITLE 24, CCR, PART 2, 2022 CBC

- TITLE 24, CCR, PART 3, 2022 CEC TITLE 24, CCR, PART 4, 2022 CMC
- TITLE 24, CCR, PART 9, 2022 CFC
- TITLE 24, CCR, PART 6, 2022 CALIFORNIA ENERGY CODE TITLE 24, CCR, PART 11, 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ALL APPLICABLE LOCAL CODES
- 2. CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, LICENSES, ETC. REQUIRED TO CARRY ON AND COMPLETE THE WORK.
- 3. PROVIDE ALL LABOR, MATERIALS, TOOLS, PLANT EQUIPMENT, TRANSPORTATION AND PERFORM ALL OPERATIONS NECESSARY FOR ANY REASONABLE INCIDENTAL TO PROPER EXECUTION AND COMPLETION OF ALL "ELECTRICAL WORK" WHETHER SPECIFICALLY MENTIONED OR NOT; ALL AS INDICATED, SPECIFIED HEREIN, AND/OR IMPLIED THEREBY TO CARRY OUT THE APPARENT INTENT THEREOF
- 4. ALL MATERIALS SHALL BE NEW AND LISTED WITH THE UNDERWRITERS' LABORATORIES, INC., SHALL MEET THEIR REQUIREMENTS AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY.
- 5. ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ALTHOUGH THE SIZE AND LOCATIONS OF EQUIPMENT ARE SHOWN TO SCALE WHEREVER POSSIBLE, CONTRACTOR SHALL MAKE USE OF ALL DATA IN ALL CONTRACT DOCUMENTS AND VERIFY THIS INFORMATION AT THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT AND INSTALLING HIS WORK TO AVOID INTERFERENCE WITH OTHER TRADES.
- ALL ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER SHALL BE LISTED FOR EXTERIOR USE.
- 7. ALL U.L. LISTED EQUIPMENT SHALL BE INSTALLED AS PER THEIR LISTING OR LABELING.
- 8. IN LOCATIONS WHERE ELECTRICAL EQUIPMENT WOULD BE EXPOSED TO PHYSICAL DAMAGE, ENCLOSURES OR GUARDS SHALL BE SO ARRANGED AND OF SUCH STRENGTH AS TO PREVENT SUCH DAMAGE
- 9. CONFLICTS BETWEEN SPECIFICATIONS AND PLANS:
- a. ANY CONFLICT BETWEEN ELECTRICAL SPECIFICATIONS AND ELECTRICAL PLANS; OR BETWEEN ELECTRICAL PLANS AND PLANS OF ANOTHER DISCIPLINE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND A RESOLUTION RECEIVED PRIOR TO PROCUREMENT OR INSTALLATION OF THE ITEM IN QUESTION.
- b. IF THE CONTRACTOR PROCEEDS WITH THE WORK WITHOUT RECEIVING ANY RESOLUTION TO THE CONFLICT HE/SHE DOES SO AT HIS/HER OWN RISK AND SHALL RECTIFY THE WORK TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER.

260500.01. HVAC SYSTEMS:

- 1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATIONS OF ALL HVAC UNITS, DISCONNECTS AND DEVICES IN FIELD. COORDINATE ROOF PENETRATIONS FOR DISCONNECTS AND WEATHERPROOF OUTLETS WITH ELECTRICAL CONNECTION POINTS ON THE UNITS TO KEEP FLEXIBLE CONDUIT LENGTH TO A MINIMUM (36" MAXIMUM). VERIFY AND CONFIRM THE ACTUAL MOUNTING LOCATION ON THE HVAC UNIT FOR THE DISCONNECT. ALL SERVICING OUTLETS ON THE ROOF OR OUTDOORS FOR HVAC UNITS SHALL BE WP/GFI.
- 2. THE RATING OF THE DISCONNECT SHALL BE SUCH AS TO ENABLE THE LARGEST FUSE SIZE ON THE UNIT NAMEPLATE TO BE INSTALLED IN THE DISCONNECT. PROVIDE FUSES OF THIS RATING.
- 3. FURNISH AND INSTALL ALL LINE VOLTAGE CONDUITS AND LINE VOLTAGE WIRING (LOW VOLTAGE CONDUITS AND WIRING BY MECHANICAL) TO HVAC EQUIPMENT AND ASSOCIATED CONTROLS AND DEVICES AS SHOWN ON THE ELECTRICAL AND MECHANICAL PLANS, UNLESS OTHERWISE NOTED.
- 4. RUN ALL CONDUITS FOR ROOFTOP EQUIPMENT WITHIN CEILING SPACE BELOW. SURFACE CONDUIT RUNS ON THE ROOF ARE NOT PERMITTED ON THIS PROJECT.
- 5. DISCONNECTS SHALL NOT BE USED AS THROUGH RACEWAYS FOR WIRING NOT DIRECTLY SERVING THE DISCONNECTS. SERVICING OUTLETS SHALL NOT BE MOUNTED ON DISCONNECTS.

260500.02. SUBMITTALS:

PROVIDE THE FOLLOWING SUBMITTALS FOR REVIEW AND APPROVAL.

- 1. EACH SHALL BE SUBMITTED SEPARATELY TO AVOID DELAYS IN THE REVIEW OF ONE SUBMITTAL IN HOLDING UP REVIEW OF THE REMAINDER.
- a. LIGHTING CONTROLS
- b. PANEL BOARDS c. BASIC ELECTRICAL MATERIALS
- d. LIGHT FIXTURE
- 260526. GROUNDING
- 1. GROUND AND BOND ALL EQUIPMENT AS REQUIRED BY GOVERNING CODES AND SPECIFICALLY INCLUDING SWITCHBOARD, PANELBOARDS, MOTOR CASES, METAL PIPING SYSTEMS, STRUCTURAL STEEL, ETC.
- 2. PROVIDE GROUND WIRES IN ALL FEEDERS AND BRANCH CIRCUITS, SIZE PER CEC TABLE 250.122
- 3. ALL GROUND WIRES SHALL BE INSULATED GROUND WIRES.
- 260529. INSTALLATION OF SUPPORT SYSTEMS
- 1. RACEWAYS, CABLE ASSEMBLIES, BOXES, CABINETS, AND FITTINGS SHALL BE SECURELY FASTENED IN PLACE PER CEC ARTICLE 300.11. SUPPORT WIRES THAT DO NOT PROVIDE SECURE SUPPORT SHALL NOT BE PERMITTED AS THE SOLE SUPPORT. SUPPORT WIRES AND ASSOCIATED FITTINGS THAT PROVIDE SECURE SUPPORT AND THAT ARE INSTALLED IN ADDITION TO THE CEILING GRID SUPPORT WIRES SHALL BE PERMITTED AS THE SOLE SUPPORT. WHERE INDEPENDENT SUPPORT 8. WIRE ARE USED, THEY SHALL BE SECURED AT BOTH ENDS. CABLES AND RACEWAYS SHALL NOT BE SUPPORTED BY CEILING GRIDS.
- 2. FURNISH ALL NECESSARY FOUNDATIONS, SUPPORTS, BACKING, ETC., FOR ALL ELECTRICAL ENCLOSURES, CONDUITS AND EQUIPMENT.
- 3. ATTACH ALL BOXES, CABINETS, ETC. TO WOOD WITH WOOD OR LAG SCREWS, TO METAL WITH MACHINE SCREWS OR BOLTS AND TO CONCRETE WITH EXPANSION ANCHORS AND MACHINE SCREWS OR BOLTS
- 4. RIGID STEEL CONDUIT SHALL BE SUPPORTED AT INTERVALS NOT GREATER THAN 10 FT,

ELECTRICAL METALLIC TUBING AT INTERVALS NOT GREATER THAN 5 FT.

5. A SUPPORT SHALL BE PROVIDED NOT MORE THAN 3 FT. FROM ANY CHANGE IN DIRECTION. ADDITIONAL SUPPORTS TO THOSE SPECIFIED ABOVE SHALL BE INSTALLED WHERE REQUIRED TO SUIT JOB CONDITIONS AND TO PROVIDE A SECURE INSTALLATION. ALL HANGERS AND SUPPORTS

SHALL BE THE PRODUCTS OF ONE MANUFACTURER.

260533. PULL OR JUNCTION BOXES:

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- 1. INSTALL WHERE INDICATED, OR AS REQUIRED BY CODE, PULL BOXES AND JUNCTION BOXES OF SUFFICIENT SIZE AND CAPACITY TO FACILITATE ALL WIRING. BOXES SHALL BE SIZED TO PROPERLY 6. ACCOMMODATE ALL CONDUCTORS ENTERING SAME.
- 2. BOXES SHALL BE OF THE SHAPE AND SIZE BEST SUITED FOR THE PARTICULAR APPLICATION AND SHALL BE SUPPORTED DIRECTLY TO STRUCTURAL MEMBERS, FRAMING OR BLOCKING BY MEANS OF SCREWS, ANCHORS, BOLTS OR EMBEDDED IN MASONRY.
- A. SWITCH AND RECEPTACLE BOX SHALL BE ONE PIECE DRAWN OR STAMPED STEEL BOXES MINIMUM SIZE SHALL BE FOUR INCHES (4") SQUARE. BOXES SHALL BE FITTED WITH FLUSH DEVICE COVERS, PLASTER RINGS, OR TILE SWITCH RINGS IN MASONRY IN AREA WHERE EXPOSED WIRING IS PERMISSIBLE, BOXES SHALL BEFITTED WITH SURFACE TYPE COVERS.
- B. LIGHTING OUTLETS SHALL BE FOUR INCHES (4")OCTAGON, MINIMUM.
- D. WEATHERPROOF BOXES SHALL BE APPLETON FD SERIES AND FITTED WITH GASKETED CAST COVERS.
- E. VOICE/DATA OUTLET BOXES SHALL BE 4_11/16"SQ.x2_1/8" DEEP MINIMUM, FITTED WITH PLASTER
- F. BOXES FOR SPECIAL EQUIPMENT SHALL BE SUITABLE FOR THE PARTICULAR EQUIPMENT.
- G. BOXES SHALL BE LOCATED AND PLACED ACCORDING TO ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.

260550. WIRING METHODS: LINE VOLTAGE SYSTEMS (120V AND ABOVE):

1. ALL WIRING SHALL BE INSTALLED IN CONDUITS. CONDUITS SHALL BE RUN CONCEALED IN WALLS AND CEILINGS WHERE FEASIBLE. ALL CONDUITS INSTALLED SURFACE ON WALL SHALL BE PAINTED TO MATCH WALL FINISH. MOUNT EXTERIOR CONDUITS ON WALL ON GALVANIZED UNISTRUTS. ALL SURFACE CONDUIT INSTALLATION/ RUNS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.

- 2. ALL CONDUITS RUN WITHIN INTERIOR FINISHED SPACES SUCH AS OFFICES, BREAKR RESTROOM ETC. SHALL BE RUN CONCEALED.
- 3. ALL CONDUITS RUN IN DEDICATED ELECTRICAL AND MECHANICAL ROOMS SHALL BE
- 4. MINIMUM CONDUIT SIZE SHALL BE 1/2" ABOVE GRADE AND 3/4" UNDERGROUND.
- 5. MINIMUM ACCEPTABLE CONDUITS ARE:
- A. GALVANIZED RIGID STEEL FOR USE ON:
- (1) EXTERIOR WALL SURFACES.
- GALVANIZED STEEL EMT FOR USE
- (1) CONCEALED IN INDOOR FINISHED SPACES. (2) EXPOSED INSIDE ELECTRICAL & MECHANICAL ROOMS.

- LIQUID TIGHT STEEL FLEX:

- (1) FOR FINAL CONNECTION TO OUTDOOR EQUIPMENT. LENGTH SHALL NOT EXCEED
- FLEXIBLE STEEL CONDUIT:
- (1) FOR INDOOR FINAL CONNECTION TO RECESSED LIGHT FIXTURES. LENGTH SHALL
- (2) FOR INDOOR FINAL CONNECTION TO HVAC EQUIPMENT. LENGTH SHALL NOT EXC
- "PVC" SCHEDULE 40:
- (1) FOR CONDUITS RUN UNDERGROUND AND FOR UNDER BUILDING SLAB. (2) CONDUIT STUBUPS THROUGH THE FLOOR OR GRADE SHALL BE IN PVC WRAPPED CONDUIT. PVC WRAPPING SHALL EXTEND 6" ABOVE FINISHED FLOOR OR GRADE. (3) NOT PERMITTED FOR WIRING ABOVE FINISHED FLOOR INSIDE BUILDINGS.
- ALUMINUM CONDUITS, IMC CONDUITS OR ALUMINUM FITTINGS ARE NOT APPROVED
- THIS PROJECT. G. ALL CONDUIT FITTINGS SHALL BE MALLEABLE IRON/STEEL
- H. COUPLING:
- (1) EMT COUPLING APPLETON TWC-CS SERIES
- (2) EMT CONNECTOR APPLETON TW-CSI SERIES
- (3) FLEX CONDUIT CONNECTOR T&B "TITE BITE". INSULATED (4) LIQUID TIGHT FLEX CONDUIT CONNECTOR - APPLETON "STB" SERIES UP TO 2", "S OVER 2".
- RIGID STEEL CONDUIT CONNECTED TO BOXES AND CABINETS SHALL BE FITTED WIT LOCKNUTS AND INSULATING BUSHING, OA "A" SERIES. PROVIDE GROUNDING BUSHIN SERIES WHERE LOCKNUTS AND BUSHING IS NOT USED. CONDUITS CONNECTED TO EXPOSED TO WEATHER/MOISTURE SHALL BE FITTED WITH WATERTIGHT SEALING HU OR MALLEABLE IRON WITH SEALING RING AND INSULATED THREAT, T & B 370 SERIES
- TYPE NM AND NMC CABLES SHALL NOT BE USED ON THIS PROJECT.
- K. THE PROJECT DRAWINGS ARE LAID OUT USING SOLID CONDUITS AND CABLES PULL SUCH CONDUITS. MC CABLES MAY BE UTILIZED AS DESCRIBED BELOW, WITH RESTRI NOTED
- (1) PRIOR APPROVAL OF OWNER/ARCHITECT OR ENGINEER REQUIRED.

- (3) SHALL BE USED FOR BRANCH CIRCUITS ONLY AS NOTED BELOW.
- (a) CANNOT BE USED ANYWHERE EXPOSED. (b) LIGHTING: VERTICAL DROPS IN WALL FOR LIGHT SWITCHES FORM JBOX IN CEILIN HORIZONTAL RUNS IN CEILING SHALL BE IN SOLID STEEL CONDUITS. (c) POWER RECEPTACLES:
- (A) FOR UNDERGROUND HOMERUNS: SOLID CONDUIT VERTICAL RISER IN WALL FRO UNDERGROUND CONDUIT TO FIRST RECEPTACLE JBOX. THEN HORIZONTAL RUNS W TO OTHER RECEPTACLE BOXES IN MC CABLE.
- (B) FOR OVERHEAD HOMERUNS: VERTICAL DROPS FROM JBOX IN CEILING THEN HOF WITHIN WALLS TO OTHER RECEPTACLES. HORIZONTAL RUNS IN CEILING SHALL BE IN CONDUITS.
- (d) NO OTHER USE IS PERMITTED WITHOUT SPECIFIC WRITTEN APPROVAL OF THE A **FNGINFFR**
- (4) ALL FITTINGS AND TERMINATIONS FOR THE MC CABLING SYSTEM SHALL BE MET SUITABLE AND LISTED FOR SUCH USE.
- (5) ALL SUPPORTS, ATTACHMENTS SPACING SHALL BE PER CEC 330.30.
- (6) FOR MULTI-WIRE BRANCH CIRCUITS SUCH CABLES SHALL HAVE MULTIPLE NEUTF EACH CIRCUIT.
- 6. CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE THHN/THWN UNLESS OTHERV REQUIRED BY CODE.
- ALL DEVICES, CONDUITS, RACEWAYS AND CABLES SHOWN ARE NEW TO BE PROVIDE OTHERWISE NOTED.
- FLASH AND COUNTERFLASH ALL ITEMS PASSING THROUGH THE ROOF.
- THE OWNER RESERVES THE RIGHT TO RELOCATE ALL LIGHTING, OUTLETS AND SWIT THEY ARE ROUGHED IN AT NO EXTRA COST.
- 260551. INSTALLATION OF RACEWAYS AND FITTINGS:
- 1. CONCEAL RACEWAYS WITHIN CEILINGS, WALLS, AND FLOORS EXCEPT WHERE EXPO RACEWAYS ARE SPECIFICALLY PERMITTED.
- 2. WHERE CONDUIT IS ALLOWED TO BE EXPOSED, INSTALL THE CONDUIT PARALLEL WI RIGHT ANGLES TO STRUCTURAL MEMBERS, WALLS, AND LINES OF THE BUILDING.
- 3. INSTALL WHERE INDICATED, OR AS REQUIRED BY CODE, PULLBOXES AND JUNCTION SUFFICIENT SIZE TO FACILITATE WIRING. BOXES SHALL BE SIZED TO PROPERLY ACC ALL CONDUCTORS ENTERING SAME.

2		ALL CONDUITS RUN WITHIN INTERIOR FINISHED SPACES SUCH AS OFFICES, BREAKROOM, RESTROOM ETC. SHALL BE RUN CONCEALED.		MASONRY, EXPANSION ANCHORS ON SOLID CONCRETE OR MASONRY, MACHINE SCREWS OR BOLTS ON METAL SURFACES AND WOOD SCREWS ON WOOD CONSTRUCTION. THE USE OF NAILS		AC
	3.	ALL CONDUITS RUN IN DEDICATED ELECTRICAL AND MECHANICAL ROOMS SHALL BE RUN EXPOSED.		TO ANCHOR STRAPS ON WOOD CONSTRUCTION IS PROHIBITED. STRAPS SHALL BE TWO HOLE MALLEABLE IRON OR SNAP-TYPE STEEL WITH RIBBED BACK, GALVANIZED OR CADMIUM PLATED.		DE DE
4		MINIMUM CONDUIT SIZE SHALL BE 1/2" ABOVE GRADE AND 3/4" UNDERGROUND.	13.	PLACEMENT OF ALL BOXES SHALL BE GOVERNED BY APPLICABLE ARCHITECTURAL AND STRUCTURAL REQUIREMENTS.		DE
ł		MINIMUM ACCEPTABLE CONDUITS ARE: GALVANIZED RIGID STEEL - FOR USE ON:	14.	CONDUIT FITTINGS: EXCEPT WHERE OTHERWISE NOTED, CONDUIT FITTINGS SHALL BE APPLETON OR APPROVED EQUAL. UNILETS SHALL BE MALLEABLE IRON AND FITTED WITH COVERS AND	_	2729
		(1) EXTERIOR WALL SURFACES.	15.	GASKETS. TELEPHONE AND SIGNAL CONDUIT BENDS WHERE REQUIRED SHALL HAVE A RADIUS OF TEN TIMES	1.	UN INE RE
E	B.	GALVANIZED STEEL EMT FOR USE:	16	THE CONDUIT TRADE SIZE. PROVIDE PULL TAPE IN ALL EMPTY CONDUITS.	2.	DIS
		(1) CONCEALED IN INDOOR FINISHED SPACES. (2) EXPOSED INSIDE ELECTRICAL & MECHANICAL ROOMS.		D553. NAMEPLATES & IDENTIFICATION:	3.	DIS
(1.	INSTALL ENGRAVED NAMEPLATES FOR EACH PANELBOARD, CABINET, DISCONNECT, ETC. NAMEPLATES SHALL BE SECURELY FASTENED TO THE EQUIPMENT WITH #4 PHILLIPS ROUND HEAD	4.	LO CL
-		(1) FOR FINAL CONNECTION TO OUTDOOR EQUIPMENT. LENGTH SHALL NOT EXCEED 36". FLEXIBLE STEEL CONDUIT:	2	CADMIUM PLATED SELF-TAPPING SCREWS, BRASS BOLT. PROVIDE CIRCUIT LABEL INDICATING PANEL AND CIRCUIT NUMBER ON EACH COVERPLATE FOR	<u>26</u>	5100
		(1) FOR INDOOR FINAL CONNECTION TO RECESSED LIGHT FIXTURES. LENGTH SHALL NOT EXCEED 72".	۷.	EACH RECEPTACLE AND LIGHT SWITCH, MOTION SENSOR SWITCH. SUCH LABEL SHALL BE SELF ADHESIVE WHITE TAPE WITH BLACK LETTERS MADE ON A LABEL MAKER.	1.	AL CC
		(2) FOR INDOOR FINAL CONNECTION TO HVAC EQUIPMENT. LENGTH SHALL NOT EXCEED 36".	3.	ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED TO DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES PER CALIFORNIA ENERGY CODE SECTION 130.5(d)(3).	A.	ALI SC
E		"PVC" SCHEDULE 40: (1) FOR CONDUITS RUN UNDERGROUND AND FOR UNDER BUILDING SLAB.	<u>260</u>	0573. ARC FLASH HAZARDS:	_	TH
		(1) FOR CONDUITS RON UNDERGROUND AND FOR UNDER BUILDING SLAB. (2) CONDUIT STUBUPS THROUGH THE FLOOR OR GRADE SHALL BE IN PVC WRAPPED RIGID STEEL CONDUIT. PVC WRAPPING SHALL EXTEND 6" ABOVE FINISHED FLOOR OR GRADE.	1.	PROVIDE WARNING LABEL ON ELECTRICAL EQUIPMENT OF POSSIBLE ARC FLASH HAZARDS PER C.E.C. 110.16.		AL ALI
ſ		(3) NOT PERMITTED FOR WIRING ABOVE FINISHED FLOOR INSIDE BUILDINGS. ALUMINUM CONDUITS, IMC CONDUITS OR ALUMINUM FITTINGS ARE NOT APPROVED FOR USE ON		0800. TESTING:		MC
		THIS PROJECT. ALL CONDUIT FITTINGS SHALL BE MALLEABLE IRON/STEEL.	1.	THE ENTIRE ELECTRICAL INSTALLATION SHALL BE FREE FROM SHORT CIRCUITS AND IMPROPER GROUNDS. TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE ANY FIXTURES OR EQUIPMENT ARE CONNECTED AND WHERE SUCH TESTS INDICATE FAULTY		
ł	Н. (COUPLING:		INSULATION OR OTHER DEFECTS, THEY SHALL BE LOCATED, REPAIRED AND RETESTED AT THE CONTRACTOR'S EXPENSE. PROVIDE ALL INSTRUMENTS TO MAKE SUCH TESTS.		
		(1) EMT COUPLING - APPLETON TWC-CS SERIES(2) EMT CONNECTOR - APPLETON TW-CSI SERIES	2.	DEMONSTRATE TO THE OWNER AND THE ARCHITECT, THAT THE ENTIRE INSTALLATION IS COMPLETE, IN PROPER OPERATING CONDITION AND THAT THE CONTRACT HAS BEEN PROPERLY		
		(3) FLEX CONDUIT CONNECTOR - T&B "TITE BITE", INSULATED (4) LIQUID TIGHT FLEX CONDUIT CONNECTOR - APPLETON "STB" SERIES UP TO 2", "ST" SERIES OVER 2".	260	AND FULLY EXECUTED.		
I	I .	RIGID STEEL CONDUIT CONNECTED TO BOXES AND CABINETS SHALL BE FITTED WITH TWO	1.	PROVIDE A COMPLETE AND FULLY OPERATIONAL INTERIOR LIGHTING CONTROL SYSTEM FOR		
	:	LOCKNUTS AND INSULATING BUSHING, OA "A" SERIES. PROVIDE GROUNDING BUSHING OZ "BL" SERIES WHERE LOCKNUTS AND BUSHING IS NOT USED. CONDUITS CONNECTED TO BOXES EXPOSED TO WEATHER/MOISTURE SHALL BE FITTED WITH WATERTIGHT SEALING HUBS OF STEEL	2.	THE COMPLETE SYSTEM, INCLUDING ALL DEVICES SHALL BE IN COMPLIANCE WITH THE 2019		
		OR MALLEABLE IRON WITH SEALING RING AND INSULATED THREAT, T & B 370 SERIES.	3.	CALIFORNIA ENERGY CODE. THE COMPLETE SYSTEM SHALL BE AS MANUFACTURED BY NLIGHT, WATTSTOPPER, OR		
		TYPE NM AND NMC CABLES SHALL NOT BE USED ON THIS PROJECT. THE PROJECT DRAWINGS ARE LAID OUT USING SOLID CONDUITS AND CABLES PULLED THROUGH	A.	GREENGATE CONSISTING OF:		
	;	SUCH CONDUITS. MC CABLES MAY BE UTILIZED AS DESCRIBED BELOW, WITH RESTRICTIONS NOTED.	В. С.	WALL DIMMER SWITCHES THAT COMMUNICATE THROUGH ROOM CONTROLLERS. OCCUPANCY SENSORS THAT COMMUNICATE THROUGH ROOM CONTROLLERS.		
		(1) PRIOR APPROVAL OF OWNER/ARCHITECT OR ENGINEER REQUIRED.	D.	TIME BASED GATEWAY DEVICE THAT PROVIDES TIME-BASED SIGNAL TO ROOM CONTROLLERS FOR ALL SPACES THAT CONTROLLED BY MOTION SENSORS TO AUTOMATICALLY SHUT-OFF LIGHTS AT THE END OF DAY.		
	I	(2) MC CABLES SHALL BE AS MANUFACTURED BY SOUTHWIRE TYPE EZ-MC DURACLAD TYPE WITH LIGHT WEIGHT STEEL ARMOR AND INSULATED GREEN GROUNDING CONDUCTORS OR APPROVED	4.	ALL SYSTEM COMPONENTS SHALL BE UL LISTED. ALL SYSTEM CONTROL COMPONENTS SHALL BE		
Г		EQUAL. (3) SHALL BE USED FOR BRANCH CIRCUITS ONLY AS NOTED BELOW.	5.	APPROVED BY THE CALIFORNIA ENERGY COMMISSION. ALL EQUIPMENT AND ITEMS OF CONTROL SHALL BE INSTALLED AND WIRED IN ACCORDANCE WITH		
		(a) CANNOT BE USED ANYWHERE EXPOSED. (b) LIGHTING: VERTICAL DROPS IN WALL FOR LIGHT SWITCHES FORM JBOX IN CEILING.	6.	MANUFACTURER'S REQUIREMENTS. PROVIDE WALL OCCUPANCY SENSOR LIGHT SWITCHES WHERE SO SHOWN ON PLANS. SUCH		
	I	HORIZONTAL RUNS IN CEILING SHALL BE IN SOLID STEEL CONDUITS. (c) POWER RECEPTACLES:		OCCUPANCY SENSOR SWITCHES SHALL BE SINGLE LEVEL AUTOMATIC "ON"/AUTOMATIC "OFF" AS SHOWN ON PLANS. SENSORS SHALL COMPLY WITH SECTION 110.9 OF THE ENERGY CODE.		
	I	(A) FOR UNDERGROUND HOMERUNS: SOLID CONDUIT VERTICAL RISER IN WALL FROM UNDERGROUND CONDUIT TO FIRST RECEPTACLE JBOX. THEN HORIZONTAL RUNS WITHIN WALLS TO OTHER RECEPTACLE BOXES IN MC CABLE.	7.	THE SYSTEM SHALL AUTOMATICALLY SWITCH OFF ALL LIGHTS WHEN CONTROLLED SPACE BECOMES UNOCCUPIED AND SWITCH ON LIGHTS WHEN THE SPACE IS RE-OCCUPIED. ALL SENSORS SHALL BE PROVIDED WITH USER ADJUSTABLE TIME DELAY (15 SEC. TO 20 MINUTES) FOR "SWITCH-OFF" FUNCTION AND ADJUSTABLE SENSITIVITY.		
	,	(B) FOR OVERHEAD HOMERUNS: VERTICAL DROPS FROM JBOX IN CEILING THEN HORIZONTAL RUNS WITHIN WALLS TO OTHER RECEPTACLES. HORIZONTAL RUNS IN CEILING SHALL BE IN SOLID STEEL CONDUITS.	8.	LOW VOLTAGE WIRING IS NOT REQUIRED TO BE IN CONDUIT EXCEPT IN HARDLID CEILINGS WHERE SUCH WIRES SHALL BE RUN IN CONDUIT.		
		(d) NO OTHER USE IS PERMITTED WITHOUT SPECIFIC WRITTEN APPROVAL OF THE ARCHITECT OR ENGINEER.		2417. PANEL BOARDS:		
		(4) ALL FITTINGS AND TERMINATIONS FOR THE MC CABLING SYSTEM SHALL BE METAL AND SUITABLE AND LISTED FOR SUCH USE.	1.	UNITS SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED ON THE PANEL SCHEDULE, WITH THE NUMBER AND SIZE OF BREAKERS AS INDICATED ON THE PANEL SCHEDULE. SINGLE POLE, TWO POLE, AND THREE POLE BREAKERS SHALL BE BOLT-ON TYPE. MULTIPLE POLE BREAKERS		
		(5) ALL SUPPORTS, ATTACHMENTS SPACING SHALL BE PER CEC 330.30.		SHALL HAVE COMMON INTERNAL TRIP CONNECTION. SINGLE POLE BREAKERS SHALL NOT BE TIED AT HANDLES TO FORM MULTIPLE POLE BREAKERS. THE PANEL DOORS SHALL BE DOOR-IN-DOOR CONSTRUCTION AND SHALL HAVE FLUSH TYPE LOCKS, ALL LOCKS SHALL BE KEYED ALIKE AND		
		(6) FOR MULTI-WIRE BRANCH CIRCUITS SUCH CABLES SHALL HAVE MULTIPLE NEUTRALS, ONE FOR EACH CIRCUIT.		HAVE TYPEWRITTEN DIRECTORIES INDICATING FIXTURES, EQUIPMENT, OR OUTLETS SERVICE BY EACH BREAKER. PANELS SHALL HAVE COPPER BUSSING.		
(CONDUCTORS SHALL BE COPPER CONDUCTORS TYPE THHN/THWN UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.		2726. WIRING DEVICES:		
)		ALL DEVICES, CONDUITS, RACEWAYS AND CABLES SHOWN ARE NEW TO BE PROVIDED UNLESS OTHERWISE NOTED.	1.	UNITS SHALL BE EQUAL TO THE DEVICES SET FORTH HEREIN, IN STANDARD COLORS (BROWN, WHITE, GREY, BEIGE OR IVORY) AS SELECTED BY THE ARCHITECT:		
8		FLASH AND COUNTERFLASH ALL ITEMS PASSING THROUGH THE ROOF.	SIN	WIRING DEVICESLEVITON #HUBBELL #P & S #IGLE POLE SWITCH, 15A1201-2HBL1201PS15AC1IGLE POLE SWITCH, 15A1201-2HBL1201PS15AC1		
ę		THE OWNER RESERVES THE RIGHT TO RELOCATE ALL LIGHTING, OUTLETS AND SWITCHES BEFORE THEY ARE ROUGHED IN AT NO EXTRA COST.	DU	PLEX CONV. OUTLET, 20A 5362 HBL5362 5362 PLEX CONV. GFI OUTLET, 20A 6899 GF15 2095L		
-	2605	51. INSTALLATION OF RACEWAYS AND FITTINGS:	2.	THE MOUNTING HEIGHTS OF LIGHT SWITCHES, RECEPTACLES AND CONTROLS SHALL BE MAXIMUM 48" MEASURED TO THE TOP OF BOXES OR MINIMUM 16" TO THE BOTTOM OF BOXES. SEE "LEGEND" FOR ACTUAL MOUNTING HEIGHTS OF DEVICES. VERIFY HEIGHT WITH ARCHITECT WHERE AN		
		CONCEAL RACEWAYS WITHIN CEILINGS, WALLS, AND FLOORS EXCEPT WHERE EXPOSED RACEWAYS ARE SPECIFICALLY PERMITTED.	3	ACTUAL MOUNTING HEIGHT IS NOT CALLED OUT ON PLANS.		
2		WHERE CONDUIT IS ALLOWED TO BE EXPOSED, INSTALL THE CONDUIT PARALLEL WITH OR AT RIGHT ANGLES TO STRUCTURAL MEMBERS, WALLS, AND LINES OF THE BUILDING.		SHALL BE 20A RATED PER CEC 210.21(B)(1). ALL OTHERS SHALL BE 15A RATED.		
	:	INSTALL WHERE INDICATED, OR AS REQUIRED BY CODE, PULLBOXES AND JUNCTION BOXES OF SUFFICIENT SIZE TO FACILITATE WIRING. BOXES SHALL BE SIZED TO PROPERLY ACCOMMODATE		ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE WEATHERPROOF AND HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION.		
4		ALL CONDUCTORS ENTERING SAME. DO NOT INSTALL CONDUIT OR TUBING WHICH HAS BEEN CRUSHED OR DEFORMED.	5.	120V, 15A AND 20A RECEPTACLES ARE NOW SUBJECT TO CALIFORNIA ENERGY CODE, SECTION 130.5(d). ALL SUCH OUTLETS SHALL BE CONSIDERED AS UNCONTROLLED EXCEPT THOSE WHICH ARE SPECIFICALLY CALLED OUT ON THE PLANS AS CONTROLLED. SEE "CONTROLLED 120V		
	5.	RUN CONDUCTORS OF SAME CIRCUIT IN SAME CONDUIT. RUN CONDUCTORS OF DIFFERENT VOLTAGE SYSTEMS IN SEPARATE CONDUITS.	061	RECEPTACLES" PARAGRAPH BELOW. 2726.01. CONTROLLED 120V RECEPTACLES:		
r (6.	INSTALL NO CONDUCTORS UNTIL WORK WHICH MIGHT CAUSE DAMAGE TO SUCH CONDUCTORS OR		CALIFORNIA ENERGY CODE, SECTION 130.5(d) NOW REQUIRES THAT BOTH CONTROLLED AND		
-	7.	THE CONDUIT HAS BEEN COMPLETED. KEEP ALL CONDUITS AT LEAST SIX INCHES AWAY FROM THE COVERING ON HOT WATER OR STEAM	A.	UNCONTROLLED 120V OUTLETS FOR PLUG LOADS BE PROVIDED IN THE FOLLOWING LOCATIONS: KITCHENETTE AND BREAK ROOM IN OFFICE SPACES.		
ş		PIPES. CAP RACEWAY ENDS DURING CONSTRUCTION. CLEAN OR REPLACE CONDUITS IN WHICH WATER		CIRCUITS SERVING CONTROLLED RECEPTACLES SHALL BE AUTOMATICALLY BE SHUT-OFF IN		
	-	OR FOREIGN MATTER HAVE ACCUMULATED, TO THE SATISFACTION OF THE ARCHITECT.	3.	ACCORDANCE WITH SECTION 130.1(c)1. PROVIDE A SPLITWIRED DUPLEX RECEPTACLE WITH ONE HALF CONTROLLED AND ONE HALF		
ç		CONDUITS SHALL BE SUPPORTED WITH STRAPS, WITH GALVANIZED MALLEABLE SPLIT RING AND ROD FOR INDIVIDUAL RUNS OR WITH KINDORF OR UNISTRUT CHANNEL SUPPORTS FOR MULTIPLE RUNS. DISTANCE BETWEEN SUPPORTS SHALL NOT EXCEED 10 FEET. CONDUITS SHALL BE SUPPORTED INDEPENDENTLY OF ONE ANOTHER.		UNCONTROLLED DUPLEX RECEPTACLE AS SHOWN ON THE PLANS. THIS RECEPTACLE SHALL BE SPLIT DUPLEX OUTLET AS MANUFACTURED BY SAME MANUFACTURER AS THE OCCUPANCY LIGHTING SENSOR SYSTEM WITH A 15-AMP RELAY-SWITCHED OUTLET AND A 15-AMP CONSTANT POWER OUTLET.		
		CONDUITS CONNECTED TO BOXES AND CABINETS SHALL BE FITTED WITH TWO LOCKNUTS AND INSULATED BUSHING, OA "A" SERIES.	<u>262</u>	2726.02. DEVICE PLATES:		
		CONDUITS NOT CONNECTED WITH LOCKNUTS AND BUSHINGS SHALL BE FITTED WITH GROUNDING BUSHING, OZ "BL" SERIES, U. L. APPROVED AND BONDED.		ALL DEVICE PLATES FOR INDOOR USE SHALL BE NYLON. ALL DEVICE BOXES WHICH ARE INSTALLED IN FIRE RATED WALL ASSEMBLY AND IS PROVIDED WITH		
		CONDUIT STRAPS FOR INDIVIDUAL RUNS SHALL BE SECURED BY TOGGLE BOLTS ON HOLLOW	۷.	ALL DEVICE BOXES WHICH ARE INSTALLED IN FIRE RATED WALL ASSEMBLY AND IS PROVIDED WITH A FIRE-STOPPING PUTTY PAD SHALL HAVE A BRUSHED STAINLESS STEEL COVERPLATE IN		

ACCORDANCE WITH THE REQUIREMENTS OF THE PUTTY PAD.

- DEVICE COVERS FOR SURFACE MOUNTED BOXES SHALL BE 1/2" RAISED STEEL PLATES.
- DEVICE COVERS FOR DEVICES LOCATED IN DAMP LOCATIONS SHALL COMPLY WITH CEC 406.9(A).

DEVICE COVERS FOR DEVICES LOCATED IN WET LOCATIONS SHALL COMPLY WITH CEC 406.9(B).

- 29. DISCONNECT SWITCHES: UNITS SHALL BE HEAVY DUTY FUSED DISCONNECT SWITCHES, TWO OR THREE POLE TYPE, WHERE
- NDICATED ON THE DRAWINGS, OR AS REQUIRED BY CODE. SWITCHES AND FUSES SHALL BE AS REQUIRED BY THE LOADS SERVING.
- DISCONNECTS FOR FRACTIONAL HORSE POWER MOTORS SHALL BE MOTOR-RATED TOGGLE TYPE DISCONNECTS.
- DISCONNECTS FOR SINGLE PHASE MOTORS SHALL BE SINGLE PHASE AND NOT THREE PHASE.
- OCATE DISCONNECTS IN ACCORDANCE WITH CEC 430.102. ENSURE ALL CODE-REQUIRED CLEARANCES.

0. LIGHTING:

- ALL LUMINARIES SHALL BE CERTIFIED BY THE MANUFACTURER TO THE CALIFORNIA ENERGY COMMISSION
- ALL LUMINARIES SPECIFIED ON THIS PROJECT SHALL BE AS NOTED IN THE "LIGHT FIXTURE SCHEDULE" ON THESE PLANS. NO SUBSTITUTES ARE PERMITTED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- ALL INTERIOR LUMINARIES SHALL BE PROVIDES WITH 0-10V DIMMING LED DRIVERS.
- ALL EXTERIOR LUMINARIES SHALL BE PROVIDED WITH 0-10V DIMMING LED DRIVERS WITH INTEGRAL MOTION SENSORS WHERE SO NOTED.

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checker WDW 85380 Job ŧ Scale Noted Revision Schedule

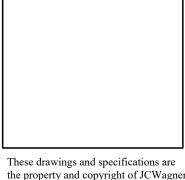
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Drawn Bv

Description # Date BID SET A 4/12/04



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GENERAL NOTES



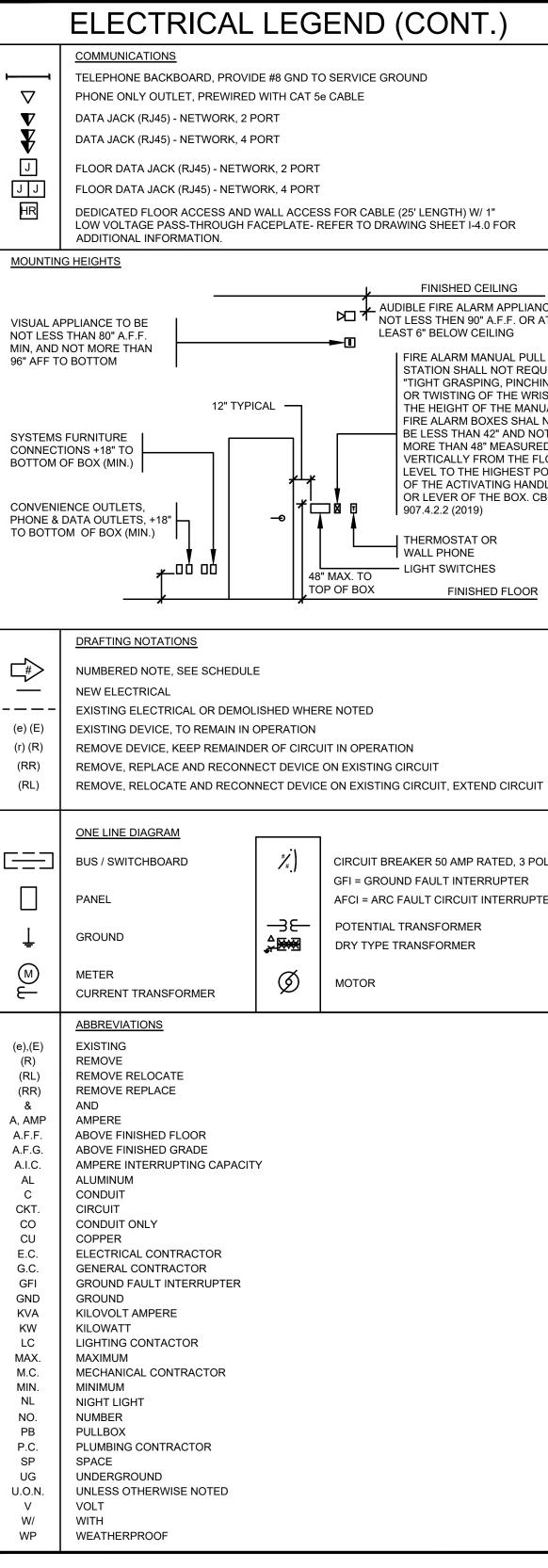


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PROJECT # 2024.042

RText (RText)

	ELECTRICAL LEGEND
	LINEAR FIXTURE FIXTURE NOTATIONS: • SQUARE = RECESSED • CIRCLE = SURFACE
¶ BBQ O	DOWNLIGHT, SQUARE = RECESSED WALL MOUNT CEILING EXHAUST FAN POLE MOUNT AREA LIGHT
<u> </u>	LINE VOLTAGE TRACK LIGHT (NUMBER OF CIRCLES = NUMBER OF TRACK HEADS)
	EXIT SIGN WITH 90 MIN BATTERY BACKUP WALL MOUNT EMERGENCY LIGHT WITH 90 MIN BATTERY BACK EXTERIOR LANDING EMERGENCY LIGHT. CONNECT TO INTERIOR EXIT SIGN FOR POWER.
	FIXTURES WITH INTEGRAL EMERGENCY BALLAST
	BASIC LIGHTING CONTROLS
\$	LIGHT SWITCH, +48" TO TOP OF BOX • D = DIMMER
\$ \$	WALL MOUNT OCCUPANCY SENSOR (LINE VOLTAGE), +48" TO TOP OF BOX DIMMER SWITCH, +48" TO TOP OF BOX
	TITLE 24 LIGHTING CONTROLS
\$	LIGHT SWITCH
	COMPONENTS OF DIMMING ROOM CONTROLLER
	DRC = DIMMING ROOM CONTROLLER
	 D = LOW VOLTAGE DIMMER (CAT 5 OR AS REQUIRED) R = PLUG LOAD CONTROLLER
US	CEILING MOUNT OCCUPANCY SENSOR
PC	PHOTOCELL
	NOTES:
	1. FOR SUBMITTAL INCLUDE FACTORY CONTROL DRAWINGS.
	 CONDUCT A CONTROLS PRE-CONSTRUCTION MEETING WITH CONTROLS STARTUP TEAM. PROVIDE AGENDA AND ATTENDEES AS A SUBMITTAL. INCLUDE DEVICE I.D. TAGS, PROGRAMMING, CABLE ROUTING, PROGRAM AND TIME SCHEDULES AND DATE OF PROGRAMMING AND TESTING.
	3. CONTRACTOR TO HAVE SYSTEM FACTORY SUPPORT FOR START UP, PROGRAMMING AND COMMISSIONING. VERIFY OPERATIONAL HOURS WITH OWNER PRIOR TO COMMISSIONING.
	ELECTRICAL POWER
-//-	ALL LINE VOLTAGE WIRING IN CONDUIT, SEE GENERAL NOTES TICKS = # OF #12 WIRE, SHORT = HOT, LONG = NEUTRAL, DOT = GROUND, DASHED = UNDERGROUND
÷	UNLESS NOTED OTHERWISE 120V OUTLET, +18" TO BOTTOM OF BOX (MINIMUM) • S = SIGN
	S = SIGN GFI = GROUND FAULT INTERRUPTER
⊕ ⊕	120V DUPLEX OUTLET MOUNTED AT +42" A.F.F. OR +4" ABOVE COUNTERTOP AS APPLICABLE QUADRUPLEX OUTLET
€	HALF SWITCHED OUTLETS
Ðs	120V SHWO WINDOW OUTLET, MOUNTED IN CEILING
R	FLOOR DUPLEX OUTLET
RR	FLOOR QUADPLEX OUTLET
Ø	
W	MOTOR / DISCONNECT PANELBOARD
	FUSE DISCONNECT
الم	MANUAL MOTOR STARTER DISCONNECT
1	





FINISHED CEILING AUDIBLE FIRE ALARM APPLIANCE NOT LESS THEN 90" A.F.F. OR AT LEAST 6" BELOW CEILING

> FIRE ALARM MANUAL PULL STATION SHALL NOT REQUIRE "TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST". THE HEIGHT OF THE MANUAL FIRE ALARM BOXES SHAL NOT BE LESS THAN 42" AND NOT MORE THAN 48" MEASURED VERTICALLY FROM THE FLOOR LEVEL TO THE HIGHEST POINT OF THE ACTIVATING HANDLE OR LEVER OF THE BOX. CBC 907.4.2.2 (2019)

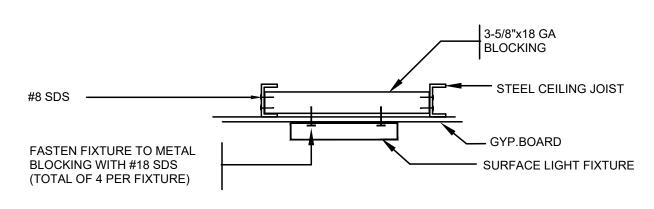
THERMOSTAT OR WALL PHONE

FINISHED FLOOR

CIRCUIT BREAKER 50 AMP RATED, 3 POLE GFI = GROUND FAULT INTERRUPTER AFCI = ARC FAULT CIRCUIT INTERRUPTER POTENTIAL TRANSFORMER

METAL JOIST GYP. BOARD SURFACE LIGHT FIXTURE FASTEN FIXTURE TO METAL JOIST WITH #10 SDS (TOTAL OF 4 PER FIXTURE)

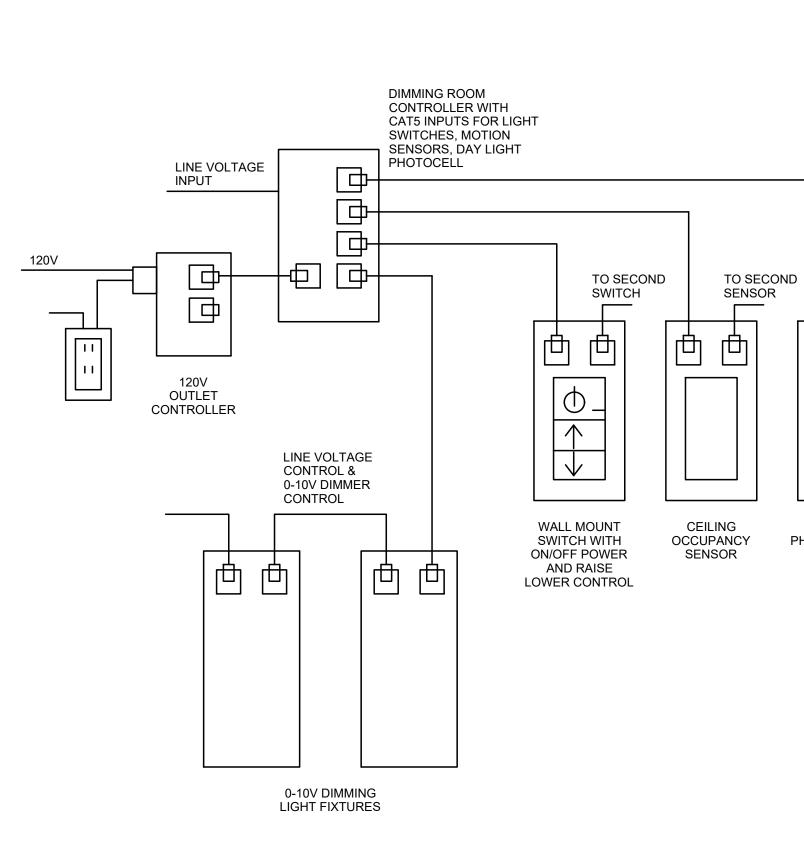
FIXTURE INSTALLED AT 90° TO JOISTS



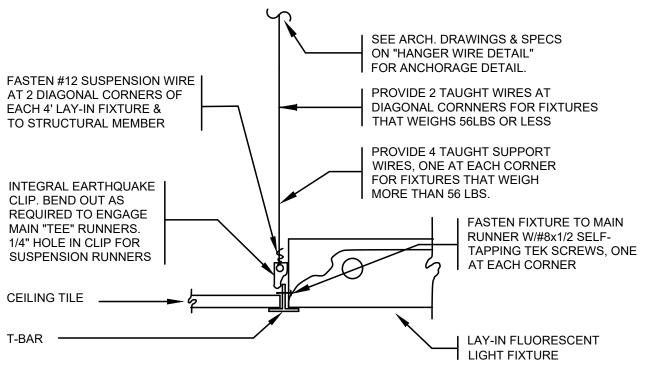
FIXTURE INSTALLED PARALLEL TO JOIST

T-BAR

MOUNTING DETAIL: SURFACE FIXTURE SCALE: N.T.S.



LIGHTING CONTROL DETAIL



MOUNTING DETAIL: LAY-IN FIXTURE

ГÐ

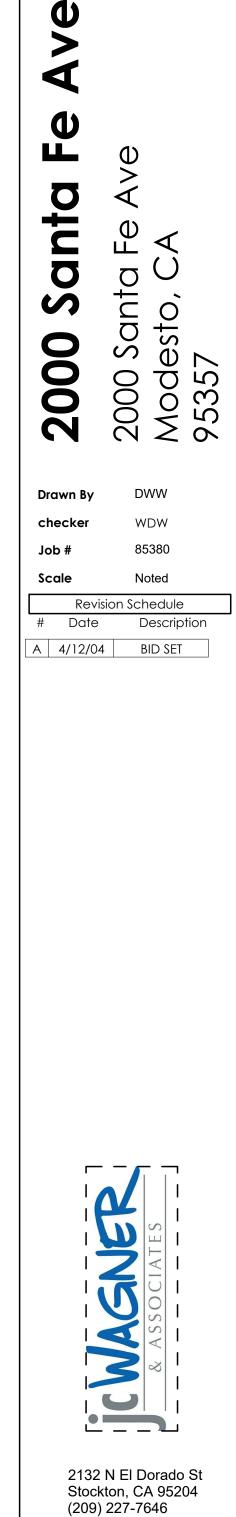
CEILING

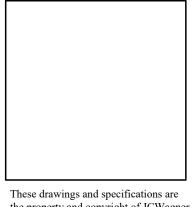
SENSOR

SCALE: N.T.S.

PHOTOELECTRIC

SCALE: N.T.S.





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LEGEND FIXTURE SCHEDULE AND DETAILS

E0.2





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Bhupendra Patel, PE bhupendra@hcs-eng.com PROJECT # 2024.042

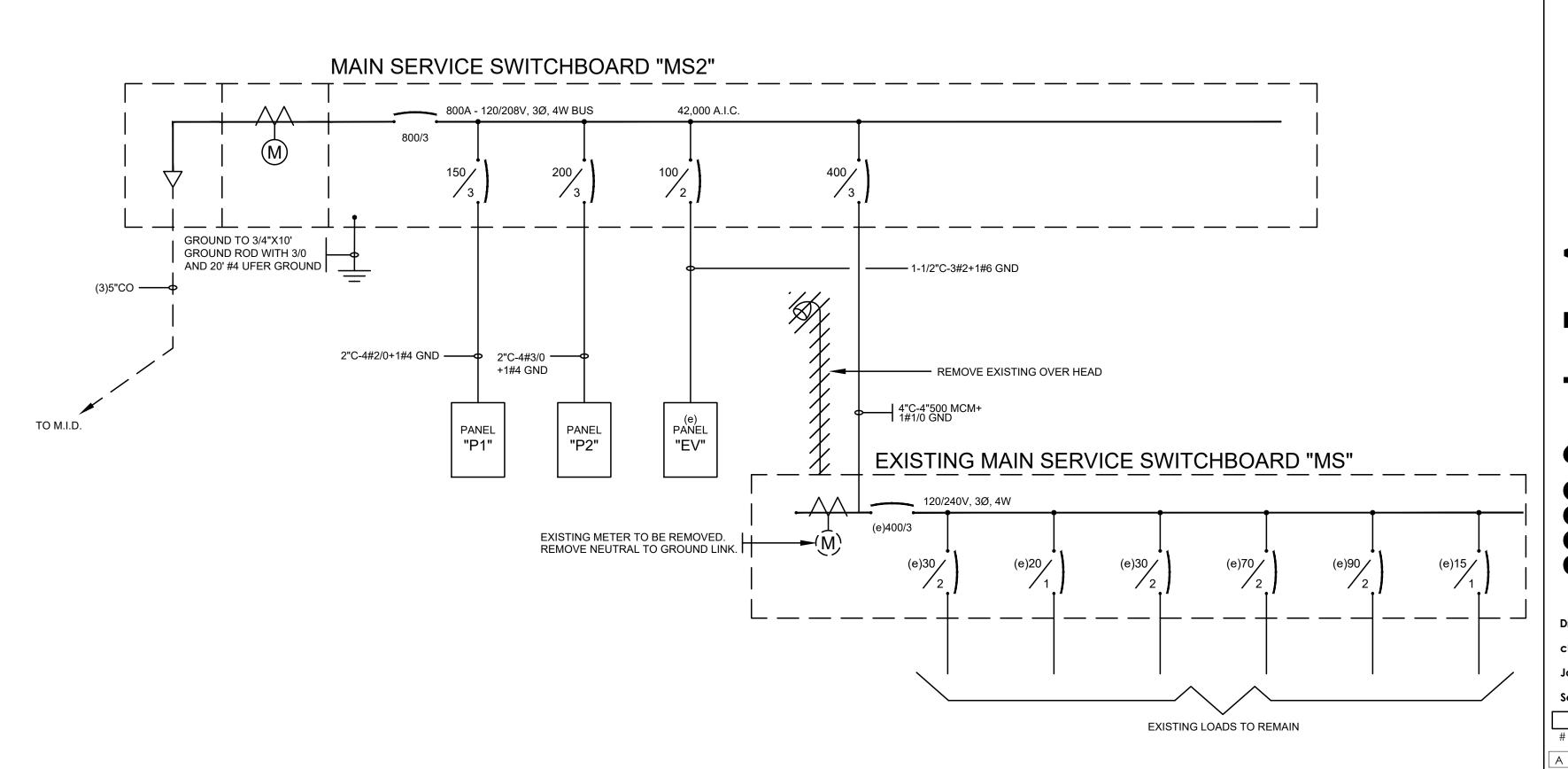
	F	PANEL		"	⊃1"		
LOCATION : UTILIT		TITI	E 24 CAT	EGORY:	OUTLETS		
TOTAL KVA : 16.3				COI	NNECT AN	/IPS: 45.4	
MOUNTING : SURF	ACE			VOL	TAGE : 1	120/208V, 3	Ø, 4W
BUSSING : 100	M	ICB 🛛 N	/LO	FEE	DER :	SEE O	NE LINE DIAGRAM
AIC : 22,000				1			NG
DESCRIPTION	LOAD	BRKR			BRKR	LOAD	DESCRIPTION
LIGHTS	445	20/1	1	2	20/1	720	OUTLETS TECH AREA
LIGHTS	591		3	4		540	
(e)EXTERIOR LIGHTS	700		5	6		720	
(e)CIRCUIT	900		7	8		540	
	900		9	10		720	OFFICE 2 OUTLETS
	900		11	12		360	UTILITY OUTLET
	900		13	14		1200	ICE MAKER
	900		15	16		600	REFRIGERATOR
ROOF/ATTIC OUTLETS	400		17	18		360	PREP OUTLET
SPARE			19	20		720	PREP COUNTER OUTLETS
			21	22		720	LOCKER/HALL OUTLETS
			23	24		540	LOCKER/BREAK OUTLETS
			25	26		720	TECH/BREAK OUTLETS
SPACE		SP	27	28		360	BREAK COUNTER OUTLETS
			29	30		600	REFRIGERATOR
			31	32		696	GARB. DISPOSAL
			33	34			
			35	36			
			37	38			
			39	40			
I			41	42			
	6236		VA 1	OTAL		10116	

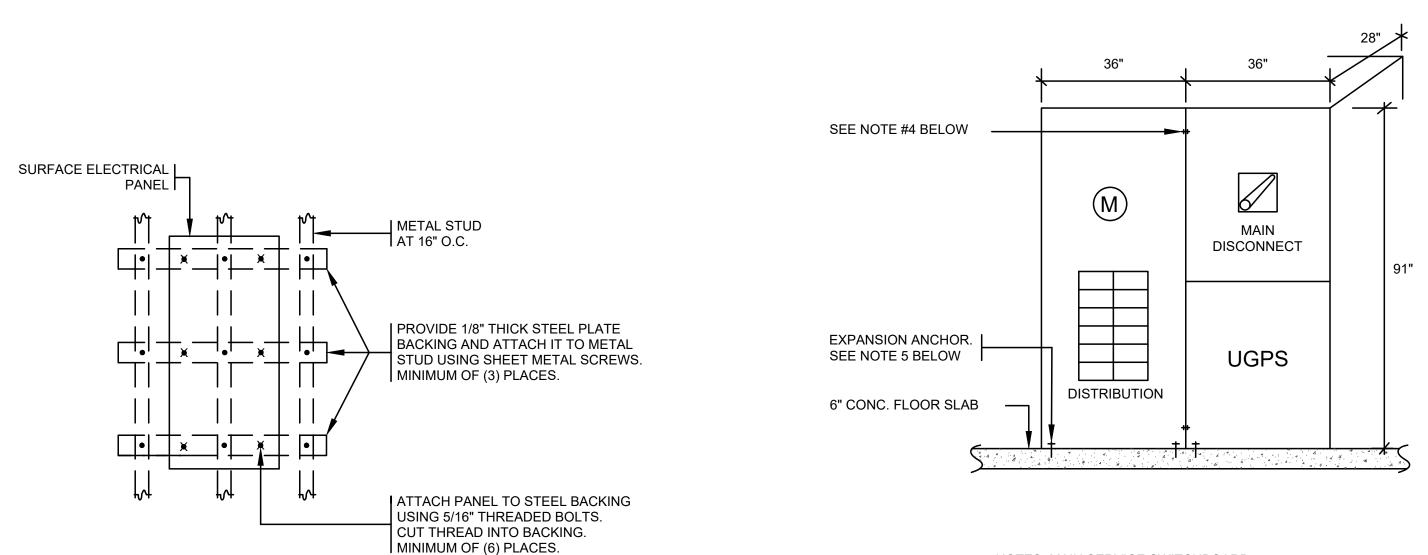
	F	PANEL		"	P2"		
LOCATION : UTILIT	Y ROOM	/	-	LE 24 CAT	EGORY:	HVAC	
TOTAL KVA : 33.6				_	NNECT AM		
MOUNTING : SURF	ACE					120/208V, 3	3Ø. 4W
BUSSING : 200		ІСВ 🕅 І	MLO				NE LINE DIAGRAM
AIC : 22,000						— EXISTI	NG
DESCRIPTION	LOAD	BRKR			BRKR	LOAD	DESCRIPTION
HP-1	1560	20 /	11	2	20	2226	WELL PUMP
		2	3	4	2		
		50 /	5	6	30	5000	EWH-1
HP-2	12384		7	8	2		
		3	9	10	20/1	500	HWCP-1
		40 /	11	12	SP		SPACE
HP-3	10368		13	14			
		3	15	16			
FC-1	60	15	17	18			
		2	19	20			
ERV-1	1360	20	21	22			
		2	23	24			
OAF-1	23	20/1	25	26			
EXT OUTLETS/DSB	380		27	28			
SPARE			29	30			
			31	32			
			33	34			
			35	36			
SPACE		SP	37	38			
			39	40			
<u> </u>			41	42	I		l 1
		FOTAL		7726			

		EXIS	TING SH			"S				
	LOCATION : -							E 24 CAT	EGORY:	EXISTING
	TOTAL K\	/A: -				(CO	NNECT AM	IPS: -A	
	MOUNTIN	IG: (e)SUF	RFACE				/01	TAGE :	120/208V,	1Ø, 3W
	BUSSING	: 90A	🗌 M	СВ 🖂 М	/LO	F	EE	DER :	🔀 SEE O	NE LINE DIAGRAM
	AIC :	EXIST	ING	_	_					NG
	DESCRIP	TION	LOAD	BRKR				BRKR	LOAD	DESCRIPTION
(e)	LIGHTS			20/1	1		2	20/1		PARKING LOT LIGHTS
	FLOOD LIG	. ,			3		4			PARKING OUTLETS
(e)	WELL PUM	D		20	5	- F	6	20		TAN ROOM LIGHTS
				2	7	- H	8	2		FLOOD LIGHT WEST
	KITCHEN			20/1	9	- H-	10	50		EV CHARGER
	SPACE			SP	11	- H	12	2		PANEL
					13	- H-	14	SP		SPACE
					15	- H	16			
					17	- H-	18			
					19	_ H_	20			
					21	- H-	22			
					23	- H	24			
					25	- H-	26			
					27	- H-	28			
					29	- H-	30		\sim	
					31		32			
	33		-	34						
	35			- H-	36			┦────┤		
			\sim		37	- H	38			\searrow
					39	- H-	40			
	\sim				41		42			
					VA T	OT	AL			

	EXISTI	NG PAI		"E\	/"		
LOCATION : COVE	RED GARA	GE	TIT	LE 24 CAT	EGORY:	EXISTING	
TOTAL KVA : 9.6				CO	NNECT AM	IPS: 26.6	
MOUNTING : STEE	L COLUMN			VOI	_TAGE : 1	20/208V, 1	Ø, 3W
BUSSING : 100A	M	CB 🛛 N	1LO	FEE	EDER :	SEE O	NE LINE DIAGRAM
A.I.C. : -						EXISTI	ING
DESCRIPTION	LOAD	BRKR			BRKR	LOAD	DESCRIPTION
SPACE		SP	1	2	SP		SPACE
1			3	4	(e)20/1	1920	EV CHARGER
EV CHARGER	1920	(e)20/1	5	6		1920	
1	1920		7	8	I	1920	
			9	10			
			11	12			
			13	14			
			15	16			
	\geq		17	18			1
			19	20			
		$\overline{\ }$	21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32		/	
			33	34			
			35	36			
	37						
			39	40			
			41	42			
	3840		VA T	OTAL		5760	

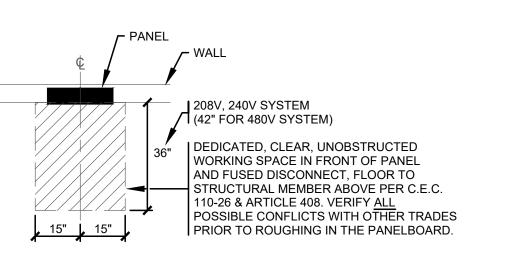
PANEL "S" DEMOLISHED UNDER REMODEL





SURFACE PANEL ON METAL STUD WALL

SCALE: N.T.S. NOMINAL DIMENSIONS: 26"Hx20"Wx5.75"D WEIGHT: 80 LBS.



PANELBOARD CLEAR WORKING SPACE

SCALE: N.T.S. SIMILAR FOR FUSED DISCONNECTS



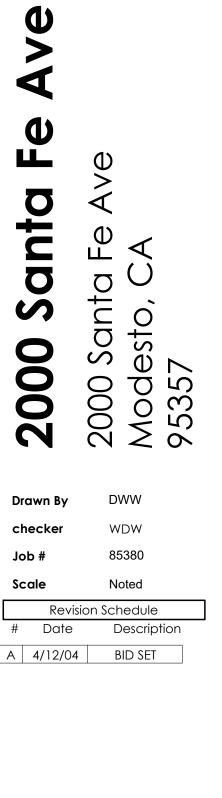
NOTES: MAIN SERVICE SWITCHBOARD

- 1. ALL DIMENSIONS ARE NOMINAL.
- 2. THE COMPLETE SWITCHBOARD SHALL HAVE A SYMMETRICAL SHORT CIRCUIT RATING EQUAL TO OR GREATER THAN THAT AVAILABLE FROM THE UTILITY COMPANY.
- 3. MINIMUM INTEGRAL A.I.C. RATING OF SWITCHBOARD AND FEEDER CIRCUIT BREAKERS TO BE 42,000 AMPS.
- 4. BOLT SECTIONS OF THE SWITCHBOARD TOGETHER WITH 1/2" BOLT AND NUTS AT 4 PLACES PER SECTION.
- 5. BOLT EACH SECTION OF SWITCHBOARD TO FLOOR SLAB WITH (4) 1/2" CONCRETE EXPANSION ANCHORS, ONE AT EACH CORNER WITH A 4" EMBEDMENT. ANCHORS TO BE KWIK BOLT "TZ" STAINLESS STEEL OR EQUAL.
- 6. PROVIDE SWITCHBOARD DRAWINGS TO UTILITY COMPANY FOR APPROVAL PRIOR TO ORDERING.
- 7. SWITCHBOARD TO BE SQUARE D TYPE QED OR APPROVED EQUAL.



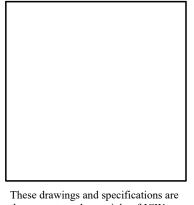
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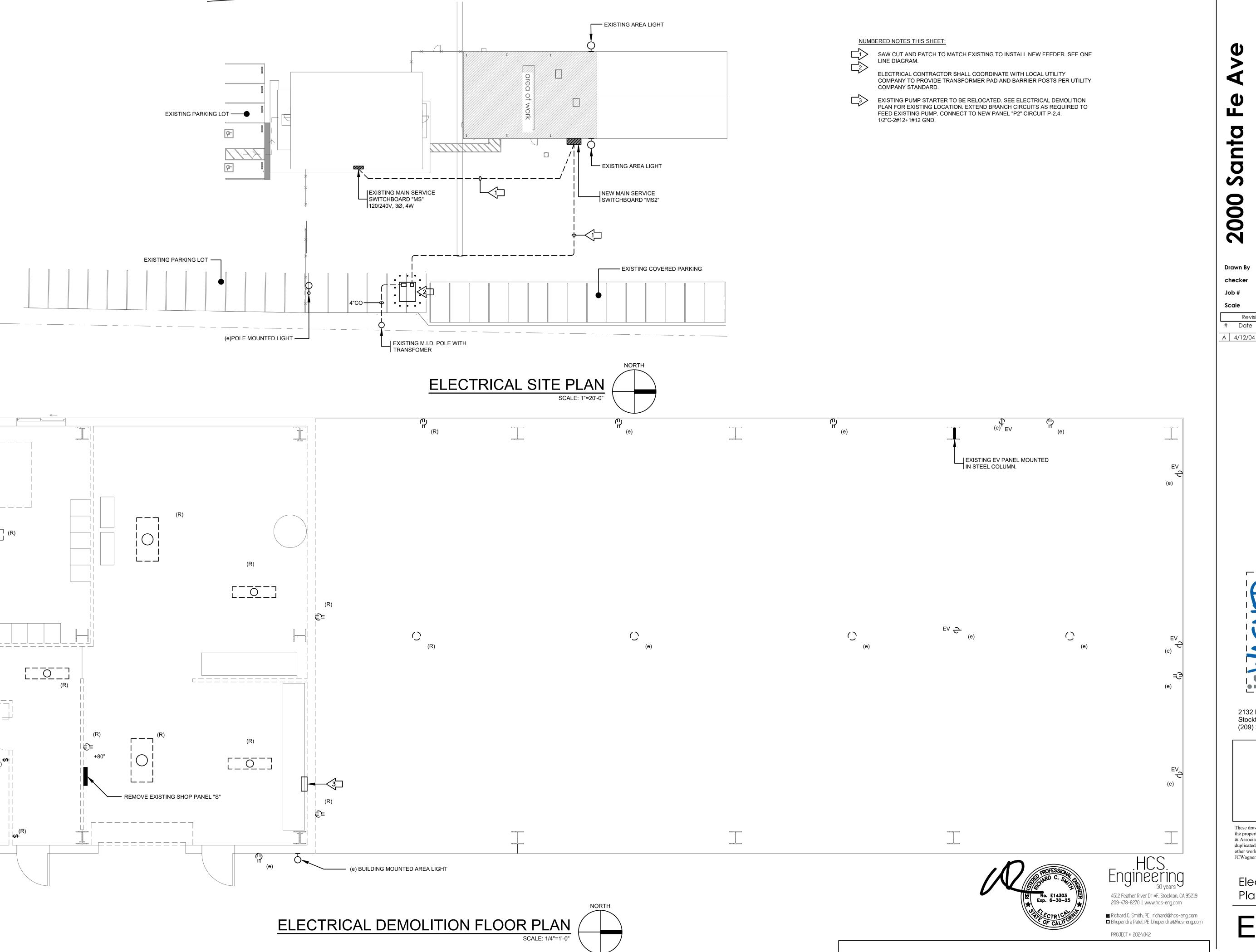


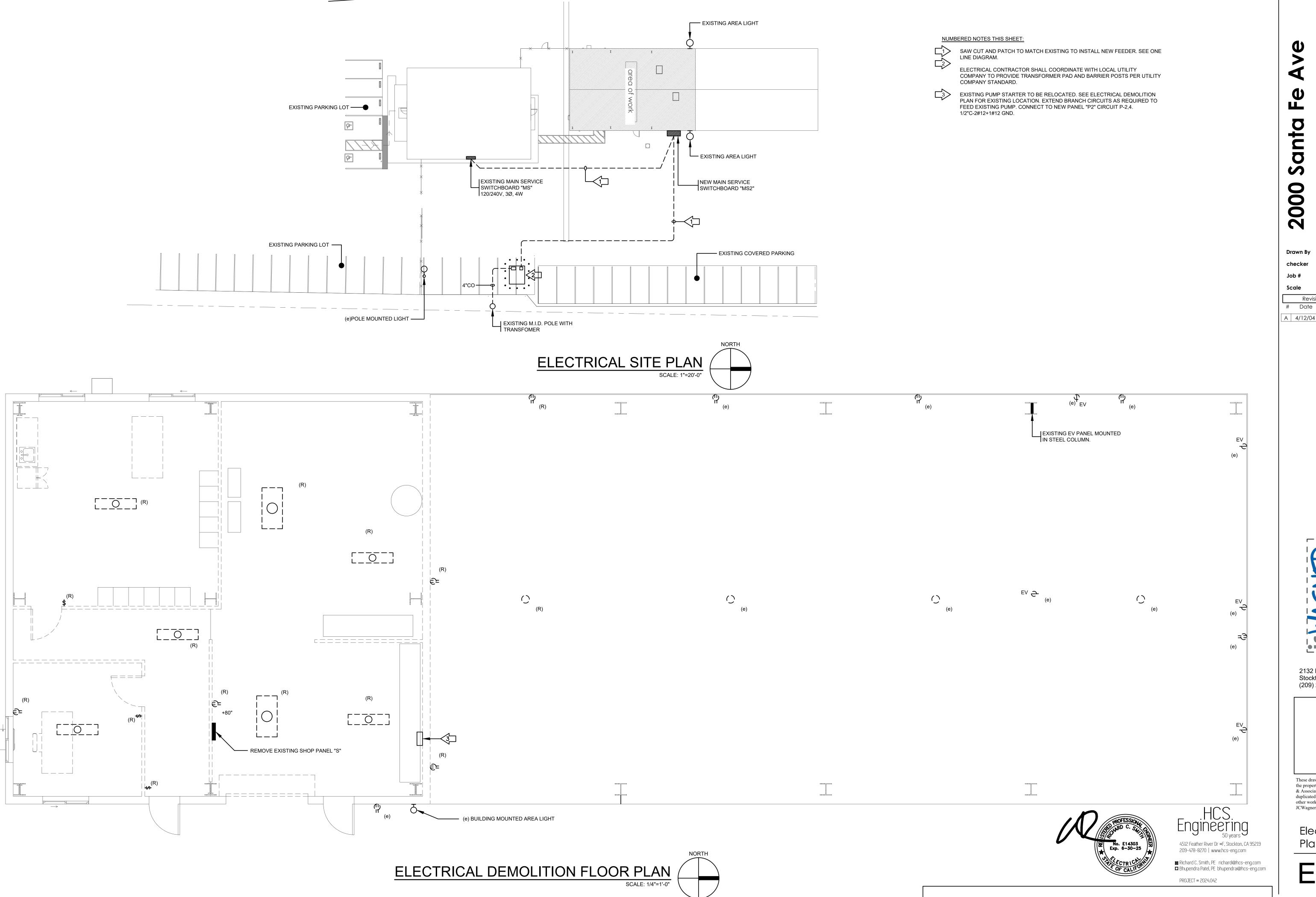
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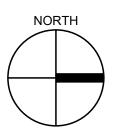
LEGEND FIXTURE SCHEDULE AND DETAILS



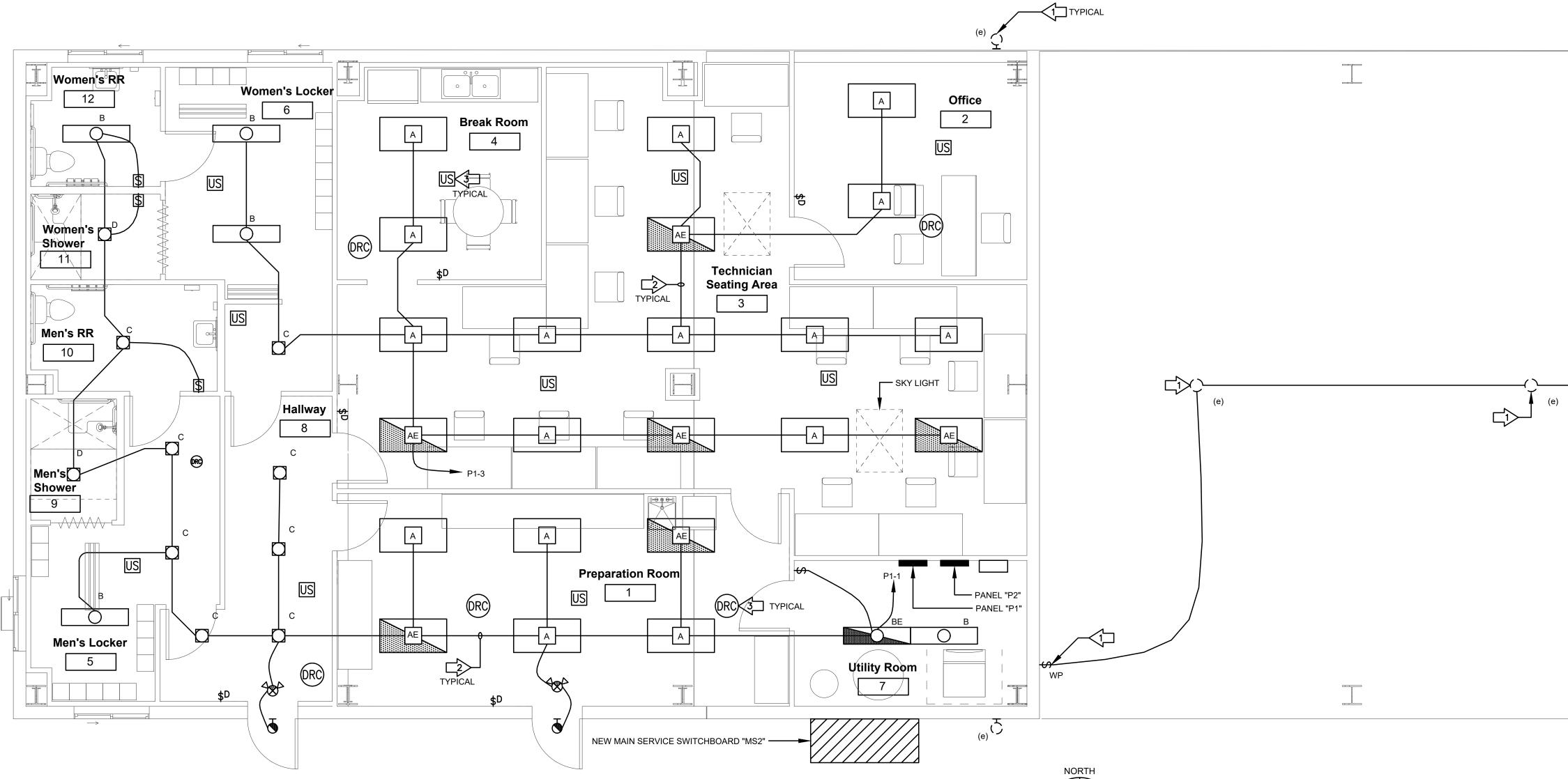
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2000 Santa Fe Ave	2000 Santa Fe Ave	Modesto, CA	95357
Drawn By checker Job # Scale Rev # Date	W 85 Na	NW DW 3380 bted hedule	ion
₩ Duie		ID SET	
	CWAGNER	& ASSOCIATES	
Stoc	- — — 2 N El D kton, C/) 227-76	A 9520	
the prop & Assoc duplicate other wo	awings and erty and cop iates and sh ed in part of rk except b er & Assoc	pyright of nall not be r in whole by agreem	f JCWagner e used or e on any
	ectric an/D		Site oltior
E	1	.1	



			FIX I URE S	SCHEDULE	
TYPE	#LAMPS	W/LAMP	DESCRIPTION	MANUFACTURER'S NO.	LOAD
А	LE	D	2X4 RECESSED TROFFER 4000L		
AE	LE	D	SIMILAR TO "A" W/LITHONIAEMERGENCY BATTERY#2BLT4-40L-ADP-EZ1-LP840-EL7LBACKUP#2BLT4-40L-ADP-EZ1-LP840-EL7L		31
В	LE	D	4' SURFACE WRAP 4000L	LITHONIA #STL4-40L-EZ1-LP840	31
BE	LE	D	SIMILAR TO "B" W/ EMERGENCY BATTERY BACKUP	LITHONIA #STL4-40L-EZ1-LP840	31
С	C LED 6" RECESSED DOWNLIGHT 1500L			LITHONIA #LDN6-40/15-L06-AR-LSS-TRW-MVOLT- GZ10	15
D			6" RECESSED DOWNLIGHT 1500L (WET LABLE0	LITHONIA #LDN6-40/15-L06-AR-LSS-TRW-MVOLT- GZ10 (WET LABLE)	15
4	-	-	COMBINATION EXIT SIGN/ EGRESS LIGHT UNIT, 90 MIN BATTERY BACKUP	LITHONIA #LHQM-LED-R-HO-SD	-
¢	-	-	WALL MOUNT EMERGENCY EGRESS LIGHT UNIT, 90 MIN BATTERY BACKUP	LITHONIA #ELM2L	-
Ю	-	-	REMOTE EMERGENCY EXTERIOR LIGHT POWERED BY 🐭	LITHONIA AFF-OEL-DWHGXD-WT	-

NUME	BERED NOTES THIS SHEET:
	(e)BUILDING MOUNTED AREA LIGHTS CONTROLLED BY PHOTO CELL. CONTROL (e) CAR PORT LIGHTS THROUGH NEW WALL SWITCH WITH WP COVER. CONNECT EXISTING EXTERIOR LIGHTS TO CIRCUIT P1-5. EXTEND EXISTING BRANCH CIRCUIT AS REQUIRED.
\square^2	CONDUITS TO CONTAIN UNSWITCHED HOT LEG, SWITCHED HOT LEG, NEUTRAL, GROUND & GRAY AND VIOLET 0–10V DIMMING CONTROL
$\square 3$	INTERCONNECT ALL LIGHTING CONTROL DEVICES (DIMMERS,

OCCUPANCY, PHOTOCELL, AND LOCAL LIGHTING CONTROLLER) PER MANUFACTURER REQUIREMENTS

	NC
LIGHTING PLAN	
SCALE: 1/4"=1'-0"	

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	(e)	
		Ĩ



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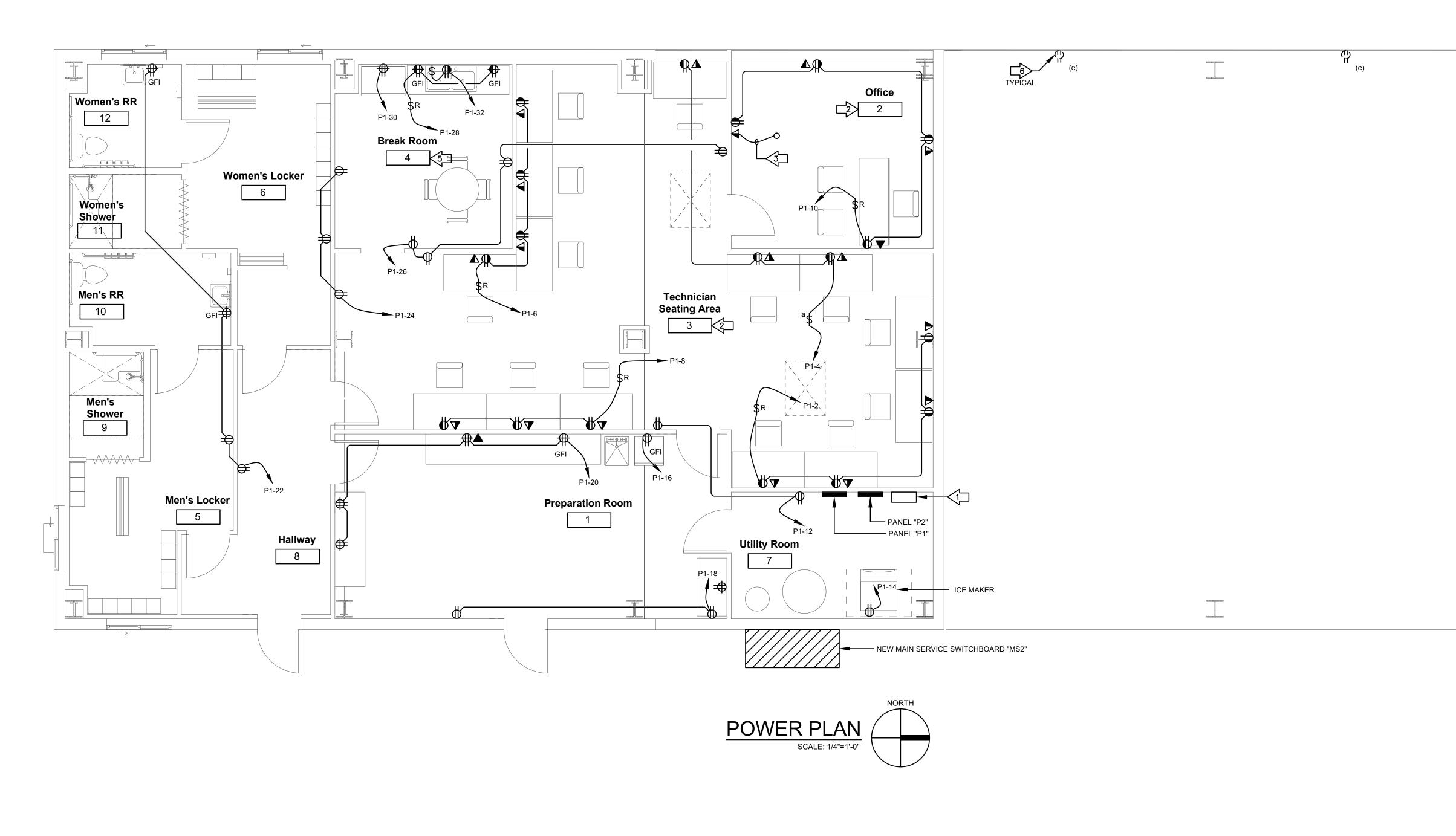
☑ Richard C. Smith, PE richard@hcs-eng.com □ Bhupendra Patel, PE bhupendra@hcs-eng.com

PROJECT # 2024.042

Φ > 4 **F** Φ 2000 Santa 2000 Santa Fe , Modesto, CA 95357 DWW Drawn By checker WDW 85380 Job # Scale Noted **Revision Schedule** Description # Date A 4/12/04 BID SET CWAGNET 2132 N El Dorado St Stockton, CA 95204 (209) 227-7646 These drawings and specifications are the property and copyright of JCWagner & Associates and shall not be used or duplicated in part or in whole on any other work except by agreement with JCWagner & Associates. LIGHTING PLAN

E2.1

RText (RText)



NUMBERED NOTES THIS SHEET:				
	EXISTING PUMP STARTER PLAN FOR EXISTING LOCA FEED EXISTING PUMP. CO 1/2"C-2#12+1#12 GND.			
\square^2	OFFICE OUTLETS TO BE H CONTROLLER, CONTROLL			
$\square 3$	3/4"C TO CEILING SPACE C VENDOR. TYPICAL.			
$\Box_{4}^{4} \rangle$	EXISTING EV CHARGERS F ONE LINE DIAGRAM.			
	ALL BREAK ROOM COUNT			
	EXISTING OUTLETS TO RE NEW PANEL "P1". SEE PAN			

50 years 🗸

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PLAN E3.1

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2000 Santa F Modesto, C, 95357

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Description

Revision Schedule

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Drawn By

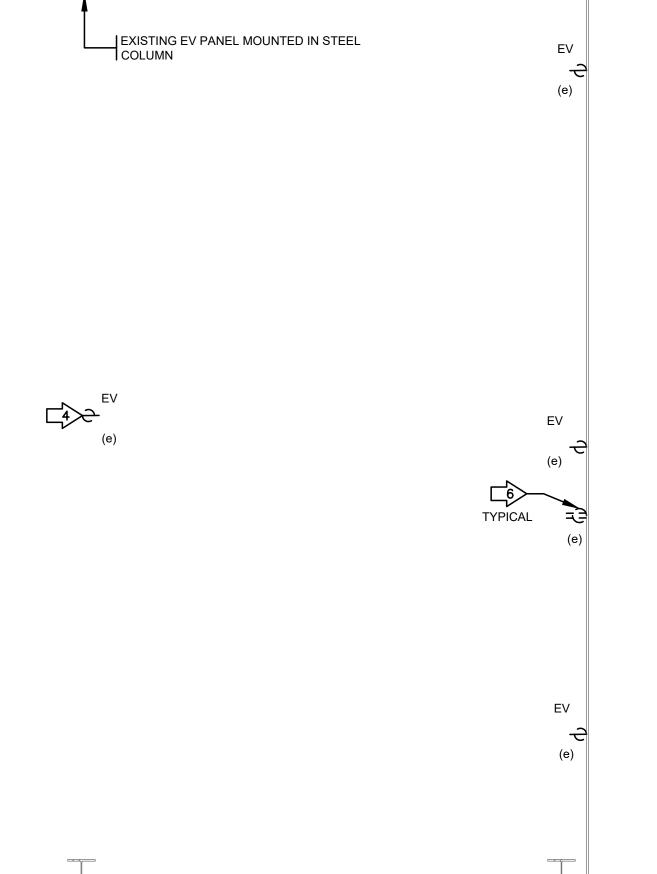
checker

Job #

Scale

Date

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(e)

(e)

EV

ARTER TO BE RELOCATED. SEE ELECTRICAL DEMOLITION G LOCATION. EXTEND BRACH CIRCUIT AS REQUIRED TO MP. CONNECT TO NEW PANEL "P2" CIRCUIT P-2,4.

O BE HALF SWITCHED CONTROLLED BY A PLUG LOAD NTROLLED BY THE OCCUPANCY SENSOR.

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PACE CONCEALED IN WALL. CABLING PER OWNERS

GERS POWERED BY EV PANEL. PROVIDE NEW FEEDER PER

COUNTER OUTLETS TO BE GFI.

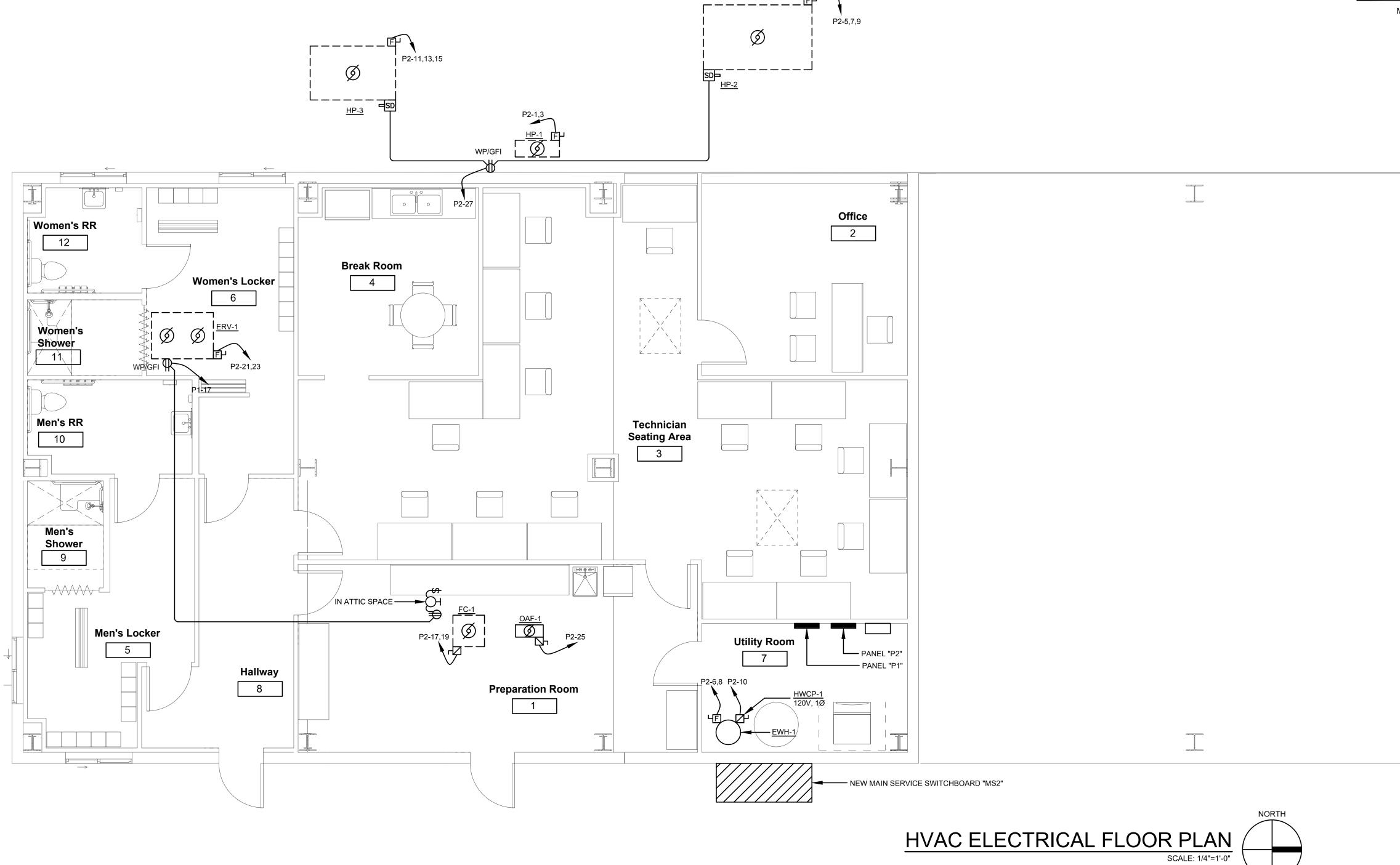
S TO REMAIN. EXTEND BRANCH CIRCUIT AS REQUIRED TO SEE PANEL P1 FOR CIRCUITS.

RText (RText)

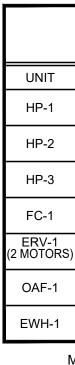


HCS. Engineering

POWER



IFL



HVAC UNIT SCHEDULE

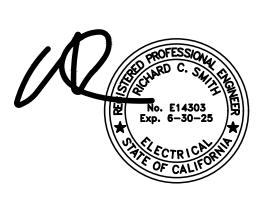
	VOLTS/Ø	FLA	DISC.	FUSE	BRANCH CIRCUIT
	208/1	7.5	30/2	11	1/2"C-2#12+1#12 GND
	208/3	34.4	60/3	50	1"C-3#8+1#10 GND
	208/3	28.8	60/3	40	1"C-3#8+1#10 GND
	208/1	60W	MMS	-	1/2"C-2#12+1#12 GND
S)	208/1	680W EA	30/2	10	1/2"C-2#12+1#12 GND
	120/1	23W	MMS	-	1/2"C-2#12+1#12 GND
	208/1	5KW	30/2	30	3/4"C-2#10+1#12 GND

MMS = MANUAL MOTOR STARTER/DISCONNECT

EXISTING EV PANEL MOUNTED IN STEEL

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Date	Description
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E3.2





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