

1	2 3	4 5	6 7 8	9 10	11	12	13	14	15	16
	Green Building Code Correction Sheet for Additions and	4. Public transportation and/or carpool options available in the	15. THE FORMALDEHYDE EMISSIONS VERIFICATION	k. The underside of cantilevered and overhanging					I	
	Alterations to Residential Buildings 8. A copy of the construction documents	area. 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an	CHECKLIST, FORM GRN 3, SHALL BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL. THE MANUFACTURER'S	appendages and floor projections shall maintain the ignition- resistant integrity of exterior walls, or the projection shall be enclosed to						
L	or a comparable document indicating the information from Energy Code Sections 110.10(b) through 110.10(c) shall	occupant may use to maintain the relative humidity level in that range.	SPECIFICATIONS SHOWING FORMALDEHYDE CONTENT FOR ALL APPLICABLE	the grade (707A.8) I. Buildings shall have all underfloor areas completely						
	be provided to the occupant. (Energy Code §110.10(d)) 9. The flow rates for all new plumbing	 6. Information about water-conserving landscape and irrgation design and controllers which conserve water. 7. Instructions for maintaining gutters and downspouts and the 	WOOD PRODUCTS SHALL BE READILY AVAILABLE AT THE JOB SITE AND BE PROVIDED TO THE FIELD INSPECTOR FOR VERIFICATION. (4.504.5.1, 9.504.5.1)	enclosed to the grade with construction as required for exterior walls (707A.8, 7207.1)						
	fixtures shall comply with the maximum flow rates specified in Section 4.303.1 (4.303.1)	importance of diverting water at least 5 feet away from the foundation.	16. ALL NEW CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:	m. All utilities, pipes, furnances, water heaters or other mechanical devices located in an exposed under-floor area of						
	10. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other outlets controlled by a single	 Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc. 	16.a. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM	a residential building shall be enclosed with materials as required for 1-hour fire-resistive construction.(7207.2)						
	valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to only allow one showerhead to be in operation at a time. (4.303.1.3.2)	 Information about state solar energy and incentive programs available. A copy of all special inspection verifications required by the 	16.b. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH STANDARD PRACTICE FOR THE TESTING OF VOCS (SPECIFICATION 01350)	 n. The space between the roof covering and roof decking shall be constructed to prevent the intrusion of flames and embers 						
н К	21. Show or state on plans that annular spaces around pipes, electric cables, conduits, or other openings in the	enforcing agency or this code. (4.410.1)	16.c.NSF/ANSI 140 AT THE GOLD LEVEL 16.d. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR	and be fire stopped per 705A.2. o. No trellis is permitted within 10 feet of the primary structure.						
SHEE	sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry, or metal plates.	COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION At the time of rough installation, during storage on the	ADVANTAGE™ GOLD (4.504.3, 9.504.3) 17. ALL NEW CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET	p. Trellis more than 10 feet from the primary structure shall be constructed of heavy timber or non combustible materials. Minimum of 4 inches spacing is required between the						
S PLAN	Piping prone to corrosion shall be protected in accordance with Section 313.0 of the Los Angeles Plumbing Code.	construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution	AND RUG INSTITUTE GREEN LABEL PROGRAM. (9.504.3.1)	members. (Information Bulletin No. P/BC 2020-023).						
	(4.406.1) 22. Provide flashing details for all new roof valleys, around new windows and doors, and at new chimney to roof	component openings shall be covered with tape, plastic, sheetmetal, or other methods acceptable to the enforcing agency to reduce the amount of water, dust and debris which may enter	18. NEW HARDWOOD PLYWOOD, PARTICLE BOARD, AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED							
LES C	intersections on the building plans. (4.407.3) 23. Materials delivered to the construction	the system. (4.504.1)	IN THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE FORMALDEHYDE LIMITS LISTED IN TABLE 4.504.5/ TABLE							
O S S	site shall be protected from rain or other sources of moisture. (4.407.4) 24. Construction waste shall be reduced in accordance with	FINISH MATERIAL POLLUTANT CONTROL Finish materials shall comply with section 4.504.2	9.504.5. (4.504.5, 9.504.5) 19. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR							
J J	IAMC Section 66.32 et seq. Indicate how construction waste will be handled:	CAPILLARY BREAK A capillary break shall be installed in compliance with at least	FRAMING SHALL NOT BE ENCLOSED UNTIL IT IS INSPECTED AND FOUND							
	a. City of Los Angeles certified hauler b. Source separated on site (Incorporate waste management plan onto plans) (4.408.1)	one of the following: 1. A 4-inch thick (101.6mm) base of 1/2 ince (12.7 mm) or larger clean aggregate shall be provided with a vapor retarder in direct	TO BE SATISFACTORY BY THE BUILDING INSPECTOR. (4.505.3, 9.505.3) 20. BATHROOM EXHAUST FANS SHALL BE ENERGY STAR							
SSI	25. An Operation and Maintenance Manual including, at a minimum, the items listed in	contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For	COMPLIANT AND BE DUCTED TO TERMINATE TO THE OUTSIDE OF THE							
	Section 4.410.1, shall be completed and placed in the building at the time of final inspection. Form GRN 6 (4.410.1)	additional information, see American Concrete Institute, ACI 302.2R-06.	BUILDING. (4.506.1, 9.506.1) 21. BATHROOM EXHAUST FANS, NOT FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM,							
OMPL	(4.410.1) 28. All duct and other related air distribution component openings shall be covered with	 Other equivalent methods approved by the enforcing agency. A slab design specified by a licensed design professional. (4.505.2.1) 	MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY							
о <mark>н</mark>	tape, plastic, or sheet metal until the final startup of the heating, cooling and ventilating equipment. (4.504.1)	MOISTURE CONTENT OF BUILDING MATERIALS	ACCESSIBLE. (4.506.1, 9.506.1) 22. WHOLE HOUSE EXHAUST FANS SHALL HAVE COVERS OR							
JRACY	29. Architectural paints and coatings, adhesives, caulks and sealants shall comply with the Volatile Organic Compound (VOC) limits listed in Tables	Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture	LOUVERS WHICH CLOSE WHEN THE FAN IS OFF AND THAT ARE INSULATED WITH A MINIMUM INSULATION VALUE OF R-4.2. (4.507.1, 9.507.1)							
ACCL	4.504.1- 4.504.3. (4.504.2.1-4.504.2.3)	content shall be verified in compliance with the following: 1. Moisture content shall be determined with either a probe-type	23. A 4-INCH THICK BASE OF ½ INCH OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED FOR THE PROPOSED SLAB							
	 a. The VOC Content Verification Checklist, Form GRN shall be completed and verified prior to final inspection approval. The manufacturer's specifications 	or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.	ON GRADE CONSTRUCTION. (4.505.2.1, 9.505.2.1) 24. A VAPOR BARRIER SHALL BE PROVIDED IN DIRECT							
BLE FC	showing VOC content for all applicable products shall be readily available at the job site and be provided to the field wavester (a provided to the field wavester (1.504.0.4)	2. Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece to	CONTACT WITH CONCRETE FOR THE PROPOSED SLAB ON GRADE							
USNO G	the field inspector for verification. (4.504.2.4) b. All new carpet installed in the building interior shall meet the testing and product requirements of one of	be verified. 3. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the	CONSTRUCTION. (4.505.2.1, 9.505.2.1) 25. THE SIZE AND LAYOUT OF THE HEATING AND AIR- CONDITIONING SYSTEMS SHALL BE IN ACCORDANCE WITH							
L L L L L L L L L L L L L L L L L L L	the following: i. Carpet and Rug Institute's Green Label Plus	enforcing agency provided at the time of approval to enclose the wall and floor framing.	ACCA MANUAL J, ACCA 29-D AND ACCA 36-S, ASHRAE HANDBOOKS. (4.507.2,							
OT BE	Program ii. California Department of Public Health's Specification 01350	Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow	9.507.2) 26. 50 % OF THE TOTAL AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH THE VOC LIMITS OR BE CERTIFIED							
	iii. NSF/ANSI 140 at the Gold level iv. Scientific Certifications Systems Indoor	the manufacturers' drying recommendations prior to enclosure.	UNDER THE RESILIENT FLOOR COVERING INSTITUTE 9RCFI) FLOOR							
ST ST	Advantage™ Gold (4.504.3) c. All new carpet cushion installed in the building	GREEN BUILDING NOTES: 1. EACH APPLIANCE PROVIDED AND INSTALLED MEETS	SCORE PROGRAM.							
A GE	interior shall meet the requirements of the Carpet and Rug Institute Green Label program. (4.504.3.1)	ENERGY STAR IF AN ENERGY STAR DESIGNATION IS APPLICABLE FOR THAT APPLIANCE. (4.210, 9.210)	Buildings shall have approved address numbers, building numbers, or approved building identification placed in a							
SX C SX	d. 80% of the total area receiving resilient flooring shall comply with one or more of the following: i. Certified as a CHPS Low-Emitting Material in the	2. WHERE FUTURE SPACE FOR SOLAR IS REQUIRED, AN ELECTRICAL CONDUIT SHALL BE PROVIDED FROM THE	position that is plainly legible and visible from the street or road fronting the property (R319.1)							
FFICE	CHPS High Performance Products Database ii. Certified under UL GREENGUARD Gold	ELECTRICAL SERVICE EQUIPMENT TO SUCH SPACE. THE CONDUIT SHALL BE ADEQUATELY SIZED BY THE DESIGNER BUT SHALL NOT BE	Protection of wood and wood based products from decay shall be provided in the locations specified per Section 317.1							
	iii. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program iv. Meet the California Department of Public Health's	LESS THAN ONE INCH. THE CONDUIT SHALL BE LABELED AS PER THE LOS ANGELES FIRE DEPARTMENT REQUIREMENTS	by the use of naturally durable wood or wood that is preservative-treated in accordance with AWPA U1 for the							
ES OF	Specification 01350 (4.504.4)	AND THE ELECTRICAL PANEL SHALL BE SIZED TO ACCOMMODATE THE INSTALLATION OF A FUTURE ELECTRICAL SOLAR SYSTEM								
ANGEL	e. New hardwood plywood, particle board, and medium density fiberboard composite wood products used in the interior or exterior of the building shall meet the	(4.211.4, 9.211.4) 3. THE FLOW RATES FOR ALL PLUMBING FIXTURES SHALL	VERY HIGH FIRE HAZARD SEVERITY ZONE LABC 2020							
SOL	formaldehyde limits listed in Table 4.504.5. (4.504.5) f. The Formaldehyde Emissions Verification Checklist,	COMPLY WITH THE MINIMUM FLOW RATES IN TABLE 4.303.2/ TABLE 9.403.2. (4.303.1, 9.303.1)	a. Class A roof covering is required for all buildings. Wood							
	Form GRN 3, shall be completed prior to final inspection approval. The manufacturer's specifications showing formaldehyde content for all applicable wood	4. WHEN SINGLE SHOWER FIXTURES ARE SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF AL								
	products shall be readily available at the job site and be provided to the field inspector for verification.	THE SHOWERHEADS SHALL NOT EXCEED THE MAXIMUM FLON RATES SPECIFIED IN THE 20 PERCENT REDUCTION COLUMN CONTAINED IN TABLE 4.303.2 OR THE SHOWER SHALL BE	installed over a minimum 36-inch-wide (914mm) underlayment consisting of one layer of No. 72 ASTM cap							
	(4.504.5) g. Mechanically ventilated buildings shall provide regularly occupied areas of the building with a MERV	DESIGNED TO ONLY ALLOW ONE SHOWERHEAD TO BE IN OPERATION AT A TIME.	sheet running the full length of the valley (705A.3)							
	13 filter for outside and return air. Filters shall be installed prior to occupancy and recommendations for	5. INSTALLED AUTOMATIC IRRIGATION SYSTEM CONTROLLER SHALL BE WEATHER- OR SOIL-BASED CONTROLLERS. (4.304.1	, d. (Roof) (Attic)(Exterior wall) vents shall resist the intrusion of							
D	maintenance with filters of the same value shall be included in the operation and maintenance manual. (4.504.6)	9.304.1) 6. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES,	flame and embers into the attic area of the structure, or shall be protected by corrosion-resistant, noncombustible wire							
	h. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not	CONDUITS, OR OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS	mesh with 1/4 Binch (6 mm) openings or its equivalent. Vents shall not be installed in eaves and cornices (706A.1, 706A.2,							
	be enclosed until it is inspected and found to be satisfactory by the building inspector. (4.505.3) i. The heating and air-conditioning systems shall be	BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASCONDY, OR METAL DLATES, (4,406,1,0,406,1)	706A.3, 7207.3) e. Eaves and soffits shall meet the requirements of SFM							
	sized and designed using ANSI/ACCA Manual J2011, ANSI/ACCA 29-D-2014 or ASHRAE	MASONRY, OR METAL PLATES. (4.406.1, 9.406.1) 7. MATERIALS DELIVERED TO THE CONSTRUCTION SITE SHAL BE PROTECTED FROM RAIN OR OTHER SOURCES OF	12-7A-3 or shall be protected by ignition-resistant materials or L noncombustible construction on the exposed underside (707A.5)							
	handbooks and have their equipment selected in accordance with ANSI/ACCA 3 Manual S-2014. (4.507.2)	MOISTURE. (4.407.4, 9.407.4) 8. ONLY A CITY OF LOS ANGELES CERTIFIED HAULER WILL BE								
С	RODENT PROOFING Annular spaces around pipes, electric cables, conduits or other	USED FOR HAULING OF CONSTRUCTION WASTE. (4.408, 9.408) 9. FOR ALL NEW EQUIPMENT, AN OPERATION AND MAINTENANCE MANUAL INCLUDING, AT A MINIMUM, THE ITEM	provide protection from the intrusion of flames and embers in							
	openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with	LISTED IN SECTION 4.410.1 OR 9.410.1, SHALL BE COMPLETED AND	g. Exterior wall coverings shall extend from the top of foundation to the roof, and terminate at 2-inch (50.8 mm)							
	cement mortar, concrete masonry or a similar method acceptable to the enforcing agency. (4.406.1)	PLACED IN THE BUILDING AT THE TIME OF FINAL INSPECTION. (4.410, 9.410)	nominal solid wood blocking between rafters at all roof overhangs, or in the case of enclosed eaves, terminate at the enclosure							
	MATERIAL PROTECTION Protect building materials delivered to the construction site from	10. ALL NEW FIREPLACES MUST BE DIRECT-VENT, SEALED COMBUSTION TYPE. WOOD BURNING FIREPLACES ARE	(704A.3.2) h. Exterior windows, window walls, glaze doors, and glazed							
	rain and other sources of moisture. (4.407.4)	PROHIBITED PER AQMD RULE 445. (4.503.1, 9.503.1, AQMD RULE 445) 11. AT LEAST 50% OF ALL AREAS RECEIVING RESILIENT	openings within exterior doors shall be insulating- glass units with a minimum of one tempered pane, or glass block units, or							
	Comply with LAMC Section 66.32 et seq. (4.408.1)	FLOORING SHALL COMPLY WITH THE VOLATILE ORGANIC COMPOUND	have a fire- resistance rating of not less than 20 minutes, when							
B	OPERATION AND MAINTENANCE MANUAL At the time of final inspection, a manual, compact disc, web-	(VOC) LIMITS OR BE CERTIFIED UNDER THE RESILIENT FLOOR COVERING (RCFI) FLOORSCORE PROGRAM. (4.504, 9.504) 12. ALL DUCT AND OTHER RELATED AIR DISTRIBUTION	 tested according to NFPA 257, or conform to the performance requirements of SFM 12-7A-2 (708A.2.1) i. Exterior door assemblies shall conform to the performance 							
	based reference or other media acceptable to the enforcing agency which includes all of the following whall be placed in the building:	COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, OR	requirements of standard SFM 12-7A-1 or shall be approved noncombustible construction, or solid core wood having stiles							
	 Directions to the owner or occupant that the manual shall remain with the building througout the life cycle of the structure. 	SHEETMETAL UNTIL THE FINAL STARTUP OF THE HEATING AN COOLING EQUIPMENT. (4.504.1, 9.504.1) 13. ARCHITECTURAL PAINTS AND COATINGS, ADHESIVES,	ID and rails not less than 1 3/8 inches thick with interior field panel thickness no less than 1-1/4 inches thick, or shall have a fire-resistance rating of not less than 20 minutes when							
	 Operation and maintenance instructions for the following: Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric 	CAULKS AND SEALANTS SHALL COMPLY WITH THE VOLATILE ORGANIC COMPOUND (VOC) LIMITS. (4.504.1-4.504.4,	tested according to ASNFPA 252. (Exception: Noncombustible or							
	vehicle chargers, water-heating sytsems and other major appliances and equipment.	9.504.1-9.504.4) 14. THE VOC CONTENT VERIFICATION CHECKLIST, FORM GRN 2, SHALL BE COMPLETED AND VERIFIED PRIOR TO FINAL	exterior fire-retardant treated wood vehicle access doors) (708A.3) j. Decking, surfaces, stair treads, risers, and landings of							
A	 b. Roof and yard drainage, including gutters and downspouts. c. Space conditioning systems, including ocndensers and air filters. 	INSPECTION APPROVAL. THE MANUFACTURER'S SPECIFICATIONS SHOWING VOC CONTENT FOR ALL	decks, porches, and balconies where any portion of such surface is							
A BION DATES	d. Landscape irrigtion systems. e. Water reuse systems.	APPLICABLE PRODUCTS SHALL BE READILY AVAILABLE AT THE JOB SITE AND BE PROVIDED TO THE FIELD INSPECTOR FOR VERIFICATION.	within 10 feet (3048 mm) of the primary structure shall be constructed of heavy timber, non combustible or other approved							
(DESIG	 Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations. 	(4.504.5, 9.504.5)	materials per Sec.709A.3							
1	2 3	4 5	6 7 8	9 10	11	12	13	14	15	16
SHEET VERSION 4.0.1										

CITY OF LOS ANGELES	DEPARTN	DEPARTMENT OF PUBLIC	WORKS	BUREAU OF ENGINEERING . SIGNED AND STAMPED .	KUNICALLY APED ●
GARY I FF MOORF P F FNV SP		NO. REVISION DESCRIPTION	DATE BY	VERTICAL CONTROL:	
		1 Revision 1	Date 1		
DESIGN GROUP	DATE:				
ARCHITECT: MICHAEL LEHRER FAIA; NERIN KADRIBEGOVIC AIA	BEGOVIC AIA				
OMAR L. GARZA SE					
DESIGNED BY: Designer				PROJECT:	1
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Author					SI
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APPROVED BY: DIVISION HEAD			XXXXX		

Tesla Photovoltaic Module

2

T420S, T425S, and T430S

Maximum Power

The Tesla module is one of the most powerful residential photovoltaic modules available. Our system requires up to 20 percent fewer modules to achieve the same power as a standard system. The module boasts a high conversion efficiency and a half-cell architecture that improves shade tolerance.

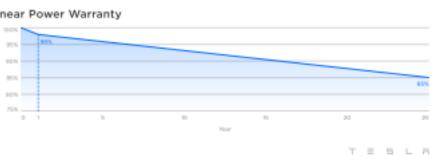
Beautiful Solar

Featuring our proprietary Zep Groove design, the all-black module connects easily with Tesla ZS components to keep panels close to your roof and close to each other for a blended aesthetic with simple drop-in and precision quarter-turn connections.

Reliability

Tesla modules are subject to automotive-grade engineering scrutiny and quality assurance, far exceeding industry standards. Modules are certified to IEC / UL 61730 - 1, IEC / UL 61730 - 2 and IEC / UL 61215.





800 W/m², 20°C, AM1.5, wind speed 1m/s

35 mm / 1.378 in

- 4

Tesia Photovoltaic Module - T4205, T4255, and T4305

Extra Linear Power Output 25 years

The maximum Pmax degradation is 2% in the 1st year and 0.54% annually from the 2nd to

25 years

Module Specifications

Electrical Characteristics

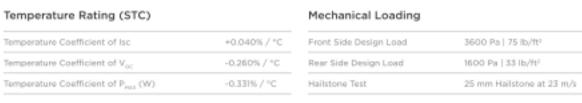
Limited Warranty

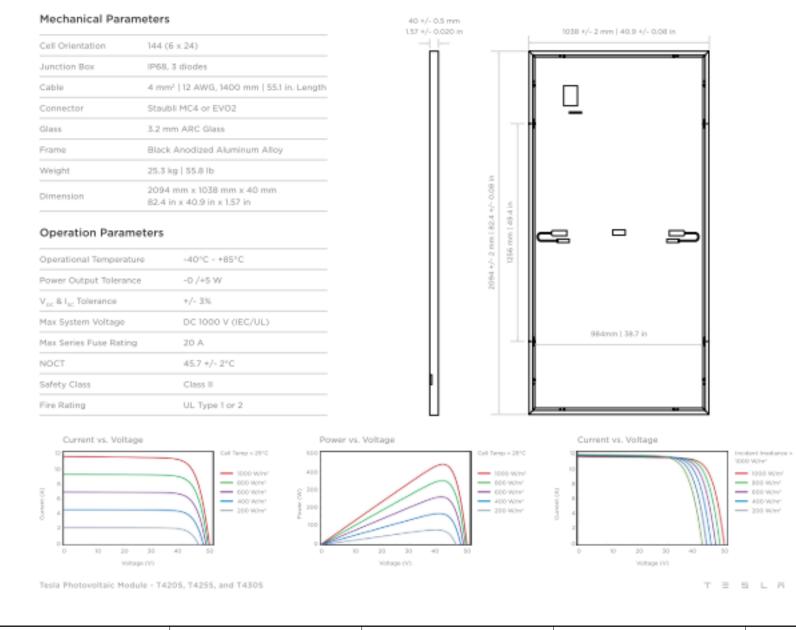
25th year.

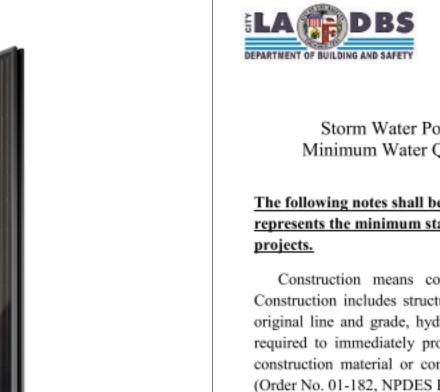
NOCT

Materials and Processing

Power Class	Τ4	205	T4	255	T43	505
fest Method	STC	NOCT	STC	NOCT	STC	NOCT
fax Power; P _{PMR} (W)	420	313.7	425	317.4	430	3211
Open Circuit Voltage, V _{oc} (V)	48.5	45.47	48.65	45.61	40.8	45.75
hort Circuit Current, I _{sc} (A)	11.16	9.02	11.24	9.09	11.32	9.15
fax Power Voltage, V _{NP} (V)	40.90	38.08	41.05	38.22	41.20	38.36
fax Power Current, I _{HP} (A)	10.27	8.24	10.36	8.3	10.44	8.37
fodule Efficiency (%)	19	0.3	19	0.6	19	.8
ite			1000 W/m²,	25°C, AH1.5		







1. Eroded sediments and sheet flow, swales, an

- 2. Stockpiles of earth an transported from the
- Fuels, oils, solvents a not contaminate the s protected from the w not be washed into th 4. Non-storm water run
- on the project site. Excess or waste conc
- shall be made to retain 6. Trash and construction
- contamination of stor 7. Sediments and other entrance roadways m street/public ways. / by rain or by any othe
- Retention basins of su properly located to co
- Where retention of sto conveyed to the street and maintained on-si

As a covered entity under Title II of the Am provide reasonable accommodation to en-(Rev. 01/01/20)



GREE

- 1. For each new dwelling and townhouse, p accommodate a dedicated 208/240 volt b less than trade size 1 (nominal 1-inch ins main service or subpanel and shall termin enclosure in close proximity to the propo panel or subpanel shall provide capacity t dedicated branch circuit and space(s) rest circuit overcurrent protective device. The directory shall identify the overcurrent pr future EV charging as "EV CAPABLE". shall be permanently and visibly marked
- 2. For common parking area serving R-occi have sufficient capacity to simultaneous the full rated amperage of the Electric Vo Design shall be based upon a 40-ampere shall not be less than trade size 1 (nomin originate at the main service or subpanel cabinet, box or other enclosure in close p an EV charger. Raceways and related co installed underground, enclosed, inaccess shall be installed at the time of original o subpanel circuit directory shall identify the space(s) reserved for future EV charging accordance with the Los Angeles Electric
- Roofs with slopes < 2:12 shall have a 3-y both a 3-year aged solar reflectance of at at least 0.75. Roofs with slopes ≥ 2:12 sh 16 or both a 3-year solar reflectance of at at least 0.75.
- 4. The required hardscape used to reduce he reflectance value of at least 0.30 as detern C1549.
- 5. The flow rates for all plumbing fixtures s rates in Section 4.303.1.
- 6. When a shower is served by more than or rate of all the showerheads controlled by gallons per minute at 80psi, or the showe showerhead to be in operation at a time.
- 7. Installed automatic irrigation system cont controllers.
- 8. For projects that include landscape work, GRN 12, shall be completed prior to final
- 9. Annular spaces around pipes, electric cal building's envelope at exterior walls shall rodents by closing such openings with ce metal plates. Piping prone to corrosion sl Section 313.0 of the Los Angeles Plumbi
- 10. Materials delivered to the construction sit sources of moisture.
- 11. Only a City of Los Angeles permitted ha construction waste. 12. For all new equipment, an Operation and minimum, the items listed in Section 4.41 the building at the time of final inspection
- As a covered entity under Title II of the Amer provide reasonable accommodation to ensure (Rev. 01/01/23)

/ISION DATES SIGN STAGE (

SHEET VERSION 4.0.1

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					VOC AND FOR	MALDEHYDE LIMITS
		OLLUTION CONTROL Green Building Code)	FORM GRN 1	DBS DEPARTMENT OF BUILDING AND SAFETY	2023 Los Angel (Incorporate th	es Green Building Code is form into the plans)
VENT OF BUILDING AND SAFETY	(2020 200 / iligoloi	, ereen zenanig eeee,		VOC CONTENT LIMITS FOR A	m Building Code Tables 4.504.1, 4.50 ARCHITECTURAL COATINGS ^{2,3} er Liter of Coating,	4.2, 4.504.3, 4.504.5, 5.504.4.1, 5.504.4.2, 5. FORMALDEHYDE Maximum Formaldehyde Emissi PRODUCT
	*	ements for Construction Activ			s Exempt Compounds	Hardwood plywood veneer core Hardwood plywood composite core Particleboard
Minimum Water	r Quality Protection Requ	irements for All Construction	1 Projects	Nonflat coatings Nonflat-high gloss coatings	50 50	Medium density fiberboard Thin medium density fiberboard ²
following notes shall	he incorporated in the app	roved set of construction/grading	nlans and	Specialty Coatings Aluminum roof coatings Basement specialty coatings	100 400	¹ Values in this table are derived from those specified Toxics Control Measure for Composite Wood as tested additional information, see California Code of Regulation
		ping which must be implemented		Bituminous roof coatings Bituminous roof primers	50 350	93120.12. ² Thin medium density fiberboard has a maximum thid SEALANT VOC
jects.				Bond breakers Concrete curing compounds Concrete curing compounds, Road	350 100 ways & 350	SEALANT VOC Less Water and Less Exempt Com SEALANTS Architectural
	··· ··· ·	ding or excavation that result		Bridges Concrete/masonry sealers	100	Marine deck Nonmembrane roof
	· · · · · · · · · · · · · · · · · · ·	. It does not include routine main l purpose of facility; emergency of		Driveway sealers Dry fog coatings Faux finishing coatings	50 50	Roadway Single-ply roof membrane Other
		fety; interior remodeling with no	-	Clear Top Coat Decorative Coatings	100 350	SEALANT PRIMERS Architectural
	S Permit No. CAS004001 – F	water; mechanical permit work; Part 5: Definitions)	or sign permit work.	Glazes Japan Trowel Applied Coatings	350 350 50	Nonporous Porous Modified bituminous 500
 Eroded sediments a 	and pollutants shall be retaine	d on site and shall not be transporte	ed from the site via	Fire resistive coatings Floor coatings	150 50	Marine deck Other
sheet flow, swales,	area drains, natural drainage	or wind.		Form-release compounds Graphic arts coatings (sign paints) High temperature coatings	100 200 420	Note: For additional information regarding methods t these tables, see South Coast Air Quality Managem ADHESIVE VOC
	and other construction-relate the site by wind or water.	d materials shall be covered and/or	r protected from being	Industrial maintenance coatings Low solids coatings?	100 120	Less Water and Less Exempt Com ARCHITECTURAL APPLICATIONS
<i>r r</i>		ist be stored in accordance with the	-	Magnesite cement coatings Mastic texture coatings Metallic pigmented coatings	450 100 150	Carpet pad adhesives Outdoor carpet adhesives
		All approved toxic storage contain ned up immediately and disposed o		Multicolor coatings Pretreatment wash primers	250 420	Wood flooring adhesive Rubber floor adhesives
	the drainage system.			Primers, sealers, and undercoaters Reactive penetrating sealers Recycled coatings	s 100 350 250	Subfloor adhesives Ceramic tile adhesives VCT and asphalt tile adhesives
 Non-storm water ru on the project site. 	unoff from equipment and ver	nicle washing and any other activity	y shall be contained	Roof coatings Roof coatings	50 100	Drywall and panel adhesives Cove base adhesives
		o the public way or any drainage sy	•	Rust preventative coatings Shellacs Clear	100 730	Multipurpose construction adhesives Structural glazing adhesives Single-ply roof membrane adhesives
		til it can be appropriately disposed st be deposited into a covered recep	-	Opaque Specialty primers, sealers and und	550	Other adhesives not specifically listed SPECIALTY APPLICATIONS
	torm water and dispersal by w		The construction	Stains Stains, Interior Stone consolidants	100 250 450	PVC welding CPVC welding ABS welding
		ed from the site by vehicle traffic. hibit sediments from being deposite		Swimming pool coatings Traffic marking coatings	450 340 100	Plastic cement welding Adhesive primer for plastic
	-	be swept up immediately and may	y not be washed down	Tub and tile refinish coatings Waterproofing membranes	420 100 275	Contact adhesive Special purpose contact adhesive Structural wood member adhesive
by rain or by any ot 8. Retention basins of		ded to retain storm water runoff on	n-site and shall be	Wood coatings Wood preservatives Zinc-rich primers	350 100	Top and trim adhesive SUBSTRATE SPECIFIC APPLICATIONS
	collect all tributary site runof	ff. not feasible due to site constraints,	nunoff mov ha	table.	ised limits are listed in subsequent columns in the	Plastic foams Prorous material (except wood)
		n provided that an approved filterir		Architectural Coatings Suggested Control Measu available from the Air Resources Board.	se specified by the California Air Resources Board ire, February 5, 2016. More information is	Wood Fiberglass
and maintained on-	site during the construction d	uration.				¹ If an adhesive is used to bond dissimilar substrate VOC content shall be allowed. ² For additional information regarding methods to m table, see South Coast Air Quality Management Dist
						http://www.arb.ca.gov/DRDB/SC/CURHTMUR1168.
	Americans with Disabilities Act, the City of ensure equal access to its programs, service	Los Angeles does not discriminate on the basis of di es and activities.	isability and, upon request, will			of Los Angeles does not discriminate on the basis o rices and activities.
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	ensure equal access to its programs, service			provide reasonable accommodation to	ensure equal access to its programs, serv	-
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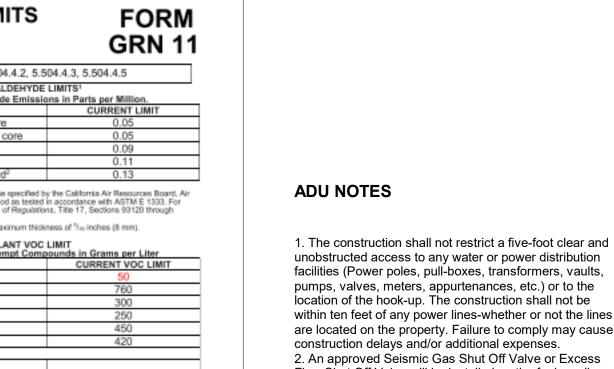
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unobstructed access to any water or power distribution facilities (Power poles, pull-boxes, transformers, vaults, pumps, valves, meters, appurtenances, etc.) or to the location of the hook-up. The construction shall not be within ten feet of any power lines-whether or not the lines are located on the property. Failure to comply may cause construction delays and/or additional expenses. 2. An approved Seismic Gas Shut Off Valve or Excess Flow Shut Off Valve will be installed on the fuel gas line on the down-stream side of the utility meter and be rigidly connected to the exterior of the building or structure containing the fuel gas piping. (Per Ordinance 170,158 and 180,670) Separate plumbing permit is required. 3. Provide ultra-flush water closets for all new construction. Existing shower heads and toilets must be adapted for low water consumption. 4. Provide (70) (72) inch high non-absorbent wall adjacent to shower and approved shatter-resistant materials for shower enclosure. (1210.2.3, 2406.4.5, R307.2, R308.4)

5. Water heater must be strapped to wall. (507.3 & LAPC) 6. Sprinkler system must be approved by the Mechanical Division prior to installation. 7. A fire alarm (visual and audible) system is required. The alarm system must be approved by the Fire Department

and Electrical Plan Check prior to installation. (LAMC 57.122) 8. Carbon monoxide alarm is required per (420.6, R315

Glazing in hazardous locations shall be tempered (2406.4, R308.4):

a. Ingress and egress doors

b. Panels in sliding or swinging doors c. Doors and enclosure for hot tub, bathtub, showers

(Also glazing in wall enclosing these compartments within 5' of standing surface) d. If within 2' of vertical edge of closed door and within

5' of standing surface

f. Guards and handrails

Comply with Title 24 energy requirements

a. Energy Calculations provided herein b. HERS field verification is required

c. Provide a CFIR Form (certificate of compliance)

d. Certificate of compliance shall display the required registration number.

CENTIFICATE OF CONTRELATIVE - RESIDENTIAL PERFORMATIVE CONTRELATION			
Project Name: Residential Building		Calculation Date/Time: 2023-06-13T15:53:29-07:00	(Page 10 of 10)
Calculation Description: Title 24 Analysis		Input File Name: BureauofEngineeringADURevB.ribd22x	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
1. I certify that this Certificate of Compliance documentation is accurate and complete	id complete.		
Documentation Author Name:		Documentation Author Signature:	
Mario Bertacco		Marío Bertacco	
Company:		Signature Date:	
NRG Compliance LP		06/13/2023	
Address:		CEA/ HERS Certification Identification (If applicable):	
PO Box 3777			
City/State/Zip:		Phone:	
Santa Rosa, CA 95402		707-237-6957	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California:	nia:		
_	cept responsibility for the	building design identified on this Certificate of Compliance.	
 I certify that the energy features and performance specifications identified The huilding decian features or system decian features identified on this C 	ed on this Certificate of Co Certificate of Compliance	ter the regret services and performance specifications (dentificate of Compliance conform to the requirements of Hz 2, Bri 11 and Pzt 16 of the California of Cool of Regulations. The hindling beam regret ments of the service and performance specifications of the california of the c	f Regulations.
-	ncy for approval with this	building permit application.	(man)
Responsible Designer Name:		Responsible Designer Signature:	
Ashle Fauvre		Ashle Fauvre	
Company:		Date Signed:	
Kadre Architects		06/14/2023	
Address: 1240 Brookmere Rd		lucense:	
Citv/State/Zin ⁻		Phane.	
custorers.com Pasadena, CA 91105		206-351-9727	

		- d	CITY ENGINEER 1 Revision 1 2 ATE:	NO. 1 Revision 1	DATE BY Date 1	VERTICAL CONTROL: HORIZONTAL CONTROL:	SIGNED AND STAMPED	СІТ
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e. In wall enclosing stairway landing

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		EASURES	SUMM	ARY				RMS-1
	of Engineering	ADU		ding Type	🗆 Multi Famil		ddition/Alteration	Date 6/13/2023
Project Ac		Loo America				Total Cond. Floor		# of Units
	dard Plan Way	Los Angeles		A Clima	ate Zone 09	420	n/a	1
	ruction Type		Cav	/it\/	Area (ft ²) S	pecial Featu	roc	Status
Wall	Wood Framed	,	R 23	/ity	1,002	pecial realu	165	New
Roof	Wood Framed Raft	er	R 38		420 Cool F	Roof		New
Slab	Unheated Slab-on-			sulation	420 Perim			New
	STRATION	Total Are					d Average U-Factor:	0.30
Orient		,	SHGC	Overh			r Shades	Status
Rear (N)	21		0.20	none	none	N/A		New
Right (E)	12		0.20	none	none	N/A		New New
Front (SE) Left (SW)		.7 0.300	0.20	none	none	N/A N/A		New
Left (W)	36		0.20	none	none	N/A		New
HVAC	SYSTEMS							
	SYSTEMS Heating	Min. I	Eff Co	ooling	Mir	n. Eff	Thermostat	Status
		Min. 8.50 HS		ooling lit Heat Pur			Thermostat	Status New
Qty.	Heating Electric Heat Pump DISTRIBUTIC	8.50 HS	SPF Sp.			SEER S		
Qty. 1 HVAC	Heating Electric Heat Pump DISTRIBUTIC	8.50 HS	SPF Sp Co	lit Heat Pur	np 14.C	SEER S	betback Duct	New
Qty. 1 HVAC Locati HVAC Syst	Heating Electric Heat Pump DISTRIBUTIC	8.50 HS DN Heating Ductless / with Fan	SPF Sp Co Duc	lit Heat Pur	np 14.0 Duct Loc n/a Eff Distri	SEER S	Duct R-Value	New Status



2022 Single-Family Residential Mandatory Requirements Summary

Space Conditioning System Airflow Rate and Fan Efficacy. Space conditioning systems that use ducts to supply cooling must have
a hole for the placement of a static pressure probe, or a permanently installed static pressure probe in the supply plenum. Airflow must
be ≥ 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air
handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow ≥ 250 CFM per ton of nominal
cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with
Reference Residential Appendix RA3.3. *

§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1. *
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole- dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)1Biii&iv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses. Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand- controlled exhaust system meeting requirements of §150.0(o)1Giii,enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gvi. *
§ 150.0(o)1H&I:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C mu be measured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than t minimum airflow rate required by §150.0(o)1C.
§ 150.0(o)2:	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)1G
ool and Spa Svs	tems and Equipment:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting o the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. *
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves. *
ighting:	
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. *
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and lir closets with an efficacy of at least 45 lumens per watt.
150.0(k)1B:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtigle and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
§ 150.0(k)1D:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1E:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control.
§ 150.0(k)1F:	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).*

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	ly residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach espective section for more information.
(04/2022)	
Building Envelope	
§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011. *
§ 110.6(a)5:	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b):	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from
§ 110.7:	Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped. [*] Air Leakage . All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped.
§ 110.8(a):	Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.*
§ 150.0(b):	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102.
	Masonry walls must meet Tables 150.1-A or B. *
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor.*
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to §150.0(d).
§ 150.0(g)2:	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.
ireplaces, Decora	ative Gas Appliances, and Gas Log:
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)2:	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device. *
§ 150.0(e)3:	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control. *
pace Conditionin	g, Water Heating, and Plumbing System:
§ 110.0-§ 110.3:	Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N.*
§ 110.2(b):	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.
§ 110.2(c):	Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat. *
0.440.0(-)0.	Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.
§ 110.3(c)3:	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with

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2022 Single-Famil

	2022 Single-I anny Residential Mandatory Requirements Summary
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(k)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems.*
§ 150.0(k)2A:	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(k)2B:	Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(k).
§ 150.0(k)2C:	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 150.0(k)2A.
§ 150.0(k)2E:	Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed. Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall-
§ 150.0(k)2F:	mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets a applicable requirements may be used to meet these requirements.
§ 150.0(k)4:	Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(k)5:	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
olar Readiness:	
§ 110.10(a)1:	Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e).
§110.10(b)1A:	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. *
§ 110.10(b)2:	Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.10(b)3A:	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.
§ 110.10(b)3B:	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane."
§ 110.10(b)4:	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.
§ 110.10(d):	Documentation . A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant.
§ 110.10(e)1:	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)2:	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."

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REVISION DATES (DESIGN STAGE ONLY)

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2022 Single-Family Residential Mandatory Requirements Summary

NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach

ily	Residential	Mandatory	Requirements	Summary

	2022 Single-Family Residential Mandatory Requirements Summary
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour); and pool ar spa heaters. *
§ 150.0(h)1:	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(h)2.
§ 150.0(h)3A:	Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer.
§ 150.0(h)3B:	Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions.
§ 150.0(j)1:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in § 609.11 of the California Plumbing Code. *
§ 150.0(j)2:	Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment' maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-crushable casing or sleeve.
§ 150.0(n)1:	Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain no more than 2" higher than the base of the water heater
§ 150.0(n)3:	Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director.
ucts and Fans:	
§ 110.8(d)3:	Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601.0-605.0 and ANSI/SMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8) do not require insulation. Connections of metal ducts and inner core of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723 The combination of mastic and either mesh or tape must be used to seal openings greater than ¼", If mastic or tape is used. Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board on flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts; ducts installed in
	these spaces must not be compressed. *
§ 150.0(m)2:	Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands.
§ 150.0(m)3:	Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction.
§ 150.0(m)7:	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)8:	Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents.
§ 150.0(m)9:	Protection of Insulation. Insulation must be protected from damage due tosunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water retardant and solar radiation-resistant coating.
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier.
§ 150.0(m)11:	Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1.
§ 150.0(m)12:	Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0-A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m) 12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the filter. *

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	2022 Single-Family Residential Mandatory Requirements Summary
§ 150.0(s)	Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, <u>or</u> a dedicated raceway from main service to a subpanel that supplies the branch circuits in § 150.0(s); at least four branch circuits must be identified and have t source collocated at a single panelboard suitable to be supplied by the ESS, with one circuit supplying the refrigerator, one lighting near the primary exit, and one circuit supplying a sleeping room receptacle outlet; main panelboard must have a minimum busbar r 225 amps; sufficient space must be reserved to allow future installation of a system isolation equipment/transfer switch within 3' of panelboard, with raceways installed between the panelboard and the switch location to allow the connection of backup power source source of the supplement.
§ 150.0(t)	Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include: A dedic unobstructed 240V branch circuit wiring installed within 3' of the furnace with circuit conductors rated at least 30 amps with the blar identified as "240V ready," and a reserved main electrical service panel space to allow for the installation of a double pole circuit br permanently marked as "For Future 240V use."
§ 150.0(u)	Electric Cooktop Ready. Systems using gas or propane cooktop to serve individual dwelling units must include: A dedicated unot 240V branch circuit wiring installed within 3' of the cooktop with circuit conductors rated at least 50 amps with the blank cover ident "240V ready;" and a reserved main electrical service panel space to allow for the installation of a double pole circuit breaker perma marked as "For Future 240V use."
§ 150.0(v)	Electric Clothes Dryer Ready. Clothes dryer locations with gas or propane plumbing to serve individual dwelling units must include dedicated unobstructed 240V branch circuit wiring installed within 3' of the dryer location with circuit conductors rated at least 30 at the blank cover identified as "240V ready;" and a reserved main electrical service panel space to allow for the installation of a doub circuit breaker permanently marked as "For Future 240V use."

*Exceptions may apply.

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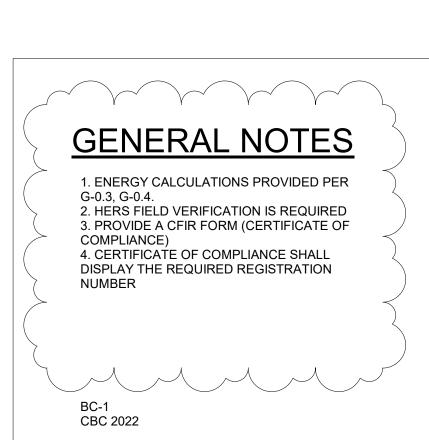
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Project Name Bureau of Engineering A	ווח					
System Name						F
HVAC System						
ENGINEERING CHECKS		SYSTEM LOAD				
Number of Systems	1	-		COOLING F		COIL
Heating System			CFM	Sensible	Latent	CFM
Output per System	9,000	Total Room Loads	246	-,	193	1
Total Output (Btuh)	9,000	Return Vented Lighting		0		
Output (Btuh/sqft)	21.4	Return Air Ducts		0		
Cooling System		Return Fan		0		
Output per System	9,000	Ventilation	0	0	0	
Total Output (Btuh)	9,000	Supply Fan		0		
Total Output (Tons)	0.8	Supply Air Ducts		0		
Total Output (Btuh/sqft)	21.4				·1	
Total Output (sqft/Ton)	560.0	TOTAL SYSTEM LOAD		5,260	193	
Air System						
CFM per System	0	HVAC EQUIPMENT SELECTION				
Airflow (cfm)	0	Ductless Mini Split Heat Pump		8,387	0	
Airflow (cfm/sqft)	0.00					
Airflow (cfm/Ton)	0.0					
Outside Air (%)	0.0%	Total Adjusted System Output		8,387	0	
Outside Air (cfm/sqft)	0.00	(Adjusted for Peak Design conditions)				
Note: values above given at AR	I conditions	TIME OF SYSTEM PEAK	ļ		Aug 3 PM	Γ
		(Airstream Temperatures at Time o	of Heating	Peak)		
38 °F	68 °F	105 °F	→		[
Outside Air					0	
Outside Air 0 cfm	Heating (Coil	 ,.			
-	Heating	∎ Coil			RC	OOM
0 cfm 68 °F			1f Cooling	Peak)	RC	DOM
0 cfm 68 °F COOLING SYSTEM PSYCH	ROMETRICS	(Airstream Temperatures at Time o	of Cooling	Peak)	RC	DOM
0 cfm 68 °F	ROMETRICS		of Cooling	Peak)	RC	NON
0 cfm 68 °F COOLING SYSTEM PSYCH	ROMETRICS	(Airstream Temperatures at Time o	of Cooling	Peak)	RC	
0 cfm 68 °F COOLING SYSTEM PSYCHI 92 / 68 °F Outside Air	ROMETRICS	(Airstream Temperatures at Time of 5/62 °F 55/54 °F →	of Cooling	Peak) 47.0°		



		DESIGNED BY: Designer	ENGINEER: OMAR L. GARZA SE	ARCHITECT: MICHAEL LEHRER FAIA; NERIN KADRIBEGOVIC AIA		VL, T.L., LINV OF CITY ENGINEER 1 Revision 1 Date 1 Date 1	CEDEENV.CD CITY ENCINEER NO. REVISION DESCRIPTION DATE BY	PUBLIC WORKS Revision Description Date 1 Date 1 Date 1	CITY ENGINEER DATE: AIA AIA AIA	E MOORE, P.E., ENV SP DESIGN GROUP MICHAEL LEHRER FAIA; NERIN KADRIBI OMAR L. GARZA SE Y: Designer Author C. Checker
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ection from the ve their iting circuit bar rating of i' of the main source. edicated blank cover it breaker unobstructed dentified as manently clude: A 80 amps with louble pole

1	2	3	4	5	6	7	8	9	10	11	12
				· · · · · · · · · · · · · · · · · · ·							

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Project Name: Residential Building Calculation Date/Time: 2023-06-13T15:53:29-07:00 (Page 1 of 10) Calculation Description: Title 24 Analysis Input File Name: BureauofEngineeringADURevB.ribd22x

CERTIFICATE OF COMPLIAN Project Name: Residential B Calculation Description: Titl

ENERGY DESIGN RATINGS
Standard Design
Proposed Design
¹ Efficiency EDR includes improv ² Total EDR includes efficiency a ³ Building complies when source
 Standard Design PV Capa PV System resized to 1.63

01	Project Name	sidential Building						
02	Run Title	Title 24 Analysis						
03	Project Location	1 Standard Plan Way						
04	City	Los Angeles	05	Standards Version	2022			
06	Zip code	91801	07	Software Version	CBECC-Res 2022.2.1			
08	Climate Zone	9	09	Front Orientation (deg/ Cardinal)	135			
10	Building Type	Single family	11	Number of Dwelling Units	1			
12	Project Scope	Newly Constructed	13	Number of Bedrooms	1			
14	Addition Cond. Floor Area (ft ²)	0	15	Number of Stories	1			
16	Existing Cond. Floor Area (ft ²)	n/a	17	Fenestration Average U-factor	0.3			
18	Total Cond. Floor Area (ft ²)	420	19	Glazing Percentage (%)	32.90%			
20	ADU Bedroom Count	n/a						
	CE RESULTS							
01	Building Complies with Computer	Performance						
02			cation by a certifi	ed HERS rater under the supervision of a	CEC-approved HERS provider.			
03	This building incorporates one or	more Special Features shown below						

Registration Number: 423-P010101735A-000-000-0000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) and cannot guarantee, the accuracy or completeness of the information contained in this document.	Registration Date/Time: 06/14/2023 15:55 using information uploaded by third parties not affiliated with or related	HERS Provider: CHEERS ed to CHEERS. Therefore, CHEERS is not responsible for,
	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2023-06-13 15:53:53

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: R	t Name: Residential Building Calculation Date/Time: 2023-06-13T15:53:29-07:00 (Page 4 of							Page 4 of 10)			
Calculation Desc	ription: Title 24 An	alysis		Input Fi	le Name	: BureauofEr	ngineerir	ngADURevB.ril	bd22x		
ENERGY USE INTE	NSITY										· · · · · · · · · · · · · · · · · · ·
		Standard Design (kBtu/	/ft ² - yr) F	Proposed Design (kBtu/f	Compliand	ce Margin	n (kBtu/ft ² - yr)) 1	Margin Percentage		
Gros	ss EUI ¹	36.04		34.3			1.74	ł		4.83	
Net	t EUI ²	13.4		11.66			1.74	l .		12.99	
		t including PV) / Total Buildi ding PV) / Total Building Are	-		X						
REQUIRED PV SYS	TEMS										
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Access (%)
1.63	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98
REQUIRED SPECIA	L FEATURES										
		e installed as condition for r	meeting the mod	eled energy performance	e for this a	computer anal	lysis.				
 IAQ Ventila Cool roof Variable cap 		s 0.555556 W/CFM mpliance option (verification ance (NEEA) rated heat pun					stalled				

Registration Number: 423-P010101735A-000-0000000-00000 Registration Date/Time: 06/14/2023 15:55 HERS Provider: CHEERS NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document. Report Generated: 2023-06-13 15:53:53 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Calculation Date/Time: 2023-06-13T15:53:29-07:00 (Page 7 of 10) Project Name: Residential Building Calculation Description: Title 24 Analysis Input File Name: BureauofEngineeringADURevB.ribd22x OPAQUE SURFACE CONSTRUCTIONS 01 02 03 04 05 06 07 08 Interior / Exterior Total Cavity Construction Name Surface Type Construction Type Continuous U-facto Assembly Layers Framing R-value R-value Inside Finish: Gypsum Board R-23 R-23 Exterior Walls 2x6@16in.O.C. None / None Cavity / Frame: R-23 / 2x6 Wood Framed Wall 0.066 Exterior Finish: 3 Coat Stucco Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Wood Framed R-38 Roof No Attic R-38 Cathedral Ceilings 2x10@24in.O.C. None / None 0.029 Siding/sheathing/decking Ceiling Cavity / Frame: R-38 / 2x10 Inside Finish: Gypsum Board BUILDING ENVELOPE - HERS VERIFICATION

01	01 02					03				04		05		
Quality Insulation I	nstallation (QII)	High R-value Spra	iy Foan	n Insulation	ion Building Envelope Air Leakage				C	FM50	c	CFM50		
Required Not Required					N/A n/a					n/a				
WATER HEATING SYSTEMS														
01	02	03		04		05		06		07	08	09		
Name	System Type	Distribution	Туре	Water Heater	r Name	Number of Units		r Heating System		Compact Distribution	HERS Verification	Water Heater Name (#)		
DHW Sys 1	Domestic Hot Water (DHW)	HERS Verified Insulation cr		DHW Heat	ter 1	1		n/a		None	DHW Sys 1-hers-dhw	DHW Heater 1 (1)		

Registration Number: 423-P010101735A-000-000-0000000000000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEEFA and cannot guarantee, the accuracy or completeness of the information contained in this document.	Registration Date/Time: 06/14/2023 15:55 S) using information uploaded by third parties not affiliated with or re	HERS Provider: CHEERS elated to CHEERS. Therefore, CHEERS is not responsible for,	Registration Number: 423-P010101735A-000-000-000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS, and cannot guarantee, the accuracy or completeness of the information contained in this document.	Registration Date/Time: 06/14/2023 15:55) using information uploaded by third parties not affiliated with or rel	HERS Provider: CHEI lated to CHEERS. Therefore, C
CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 2023-06-13 15:53:53	CA Building Energy Efficiency Standards - 2022 Residential Compliance	Report Version: 2022.0.000 Schema Version: rev 20220901	Report Generated: 20

 Ductless indoor ur 		tad antiroly in co								
 Ductless Indoor ul Pipe Insulation, Al 		ted entirely in co	annor	leu spac	e (3C3.1.4.1.8)					
	Lines									
BUILDING - FEATURES IN	FORMA	TION								
01		02			03					
Project Name		Conditioned Flo	or Are	ea (ft ²)	Number of Dw Units	1				
Residential Buildin	g	420)		1					
ZONE INFORMATION										
01		02	Number of Dwe Units 1 03 C System Name VAC System1 03 ruction							
Zone Name		Zone Type		HVA	C System Name					
First Floor		Conditioned H			IVAC System1					
OPAQUE SURFACES										
01		02			03	mber of Dwe Units 1 03 tem Name System1				
Name		Zone	Construction							
North Wall		First Floor		R	VAC System Name HVAC System1 03					
East Wall		First Floor		R	-23					
Southeast Wall		First Floor		R	-23					

CF1R-PRF-01E

Registration Number: 423-P010101735A-000-000-0000000-0000 Registration Date/Time: 06/14/2023 15:55 HERS Provider: CHEERS NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document. CA Building Energy Efficiency Standards - 2022 Residential Compliance

Southwest Wall

Project Name: Resi	MPLIANCE - RESID						ulation Date	/Time: 202	3-06-131	Г15:53:29-07	:00	(Page 8 of 10)	CERTIFICATE OF CO Project Name: Res					c
Calculation Descrip	otion: Title 24 Anal	ysis				Inpu	t File Name	: BureauofE	ngineeri	ngADURevB.	ribd22x		Calculation Descri	otion: Title 24	Analysis			h
WATER HEATERS - NI	EEA HEAT PUMP												HVAC HEAT PUMPS	HERS VERIFIC	ATION			
01	02		03		04		05		06		07	08	01	02		03	04	05
Name	# of Units	Та	nk Vol. (gal)	NEE	A Heat Pum Brand	p NI	EEA Heat Pun Model	пр Т	ank Locat	ion Duo	ct Inlet Air Source	e Duct Outlet Air Source	Name	Verified Air	flow Airflo	w Target	Verified EER/EER2	Verifie SEER/SE
DHW Heater 1	1		40		Rheem	Rhe	emPROPH40 H37515	T2R	Outside		First Floor	First Floor	Heat Pump System 1-hers-htpump	Not Requi	red	0	Not Required	Not Requ
													VARIABLE CAPACITY	HEAT PUMP CO	OMPLIANCE OPTI	ON - HERS VE	RIFICATION	
WATER HEATING - HI	ERS VERIFICATION									-			01		02	03	04	05
01	0	2		03		04		05			06	07			Certified	Airflow to	Ductless Units	
Name	Pipe Ins	ulation	Paralle	el Piping	Comp	act Distrib	ution	ompact Dist Type	ribution	Recircula	tion Control	Shower Drain Water Heat Recovery	Name		Low-Static VCHP System	Habitable Rooms		Wall Mo Thermo
DHW Sys 1 - 1/1	1 Requ	iired	Not R	equired	N	ot Require	d	None		Not F	Required	Not Required	Heat Pump Sy	stem 1	Not required	Required	Required	Requir
SPACE CONDITIONIN	IG SYSTEMS																	
01	02	03		04		05		06		07	08	09	INDOOR AIR QUALIT	'Y (IAQ) FANS				
News	Sustan Tuna	Heating Uni	He He	ating Equips	nent Cool	in a Linit Ne	Coolin	g Equipment	- Fa	n Name	Distribution Na	Required	01	02		03	04	05
Name	System Type Heat pump	Heat Pump	_	Count		ing Unit Na		Count	Fa			Thermostat Type	Dwelling Unit	Airflow (C		Efficacy /CFM)	IAQ Fan Type	Includ Heat/En Recove
HVAC System1	heating cooling	1		1		1		1		n/a	n/a	Setback	SFam IAQVentRpt					
HVAC - HEAT PUMPS	:					-							1-1	27	0.5	55556	Balanced	No
01	02	03	04	05	06	07	08	09	10	11	12	13						
				Heati				Cooling										
Nama	Custom Truco	Number of		HSPF /					EER /	Zonally	Compressor	HERS Verification						
Name	System Type	Units	Efficiency Type	HSPF2 / COP	Cap 47	Cap 17	Efficiency Type	SEER / SEER2	EER / CEER	Controlled	Туре	HERS Verification						
Heat Pump System 1	VCHP-ductless	1	HSPF	8.5	9000	7400	EERSEER	14	11	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump						

6

1

2

3

4

5

IANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD		CF1R-PRF-01E	CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COM
ial Building	Calculation Date/Time: 2023-06-13T15:53:29-07:00	(Page 2 of 10)	Project Name: Residential Building

HERS Provider: CHEERS lated to CHEERS. Therefore, CHEERS is not responsible for,

Report Generated: 2023-06-13 15:53:53

CF1R-PRF-01E

(Page 5 of 10)

07

Number of Water

Heating Systems

1

07

Status

New

08

Tilt (deg)

90

90

90

90

Building itle 24 Analysis			Calculation Date/Tim Input File Name: Bure	(Page 2 of 10)		
		Energy Design Ratings			Compliance Margins	
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
ign	29.4	28	27.6			
sign	28.6	25.1	25.8	0.8	2.9	1.8
		RESULT ³	³ : PASS		•	
y and demand resp	onse measures such as p	nd more efficient equipme hotovoltaic (PV) system ar margins are greater than c	nd batteries	net load hour limits are r	not exceeded	
pacity: 1.63 kWdc .63 kWdc (a factor c	of 1.634) to achieve 'Stan	dard Design PV' PV scaling	g			



Report Version: 2022.0.000

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional

04

Number of Bedrooms

1

04

420

05

Orientation

n/a

n/a

Report Version: 2022.0.000

Schema Version: rev 20220901

Front

Left

04

Azimuth

0

90

135

225

Schema Version: rev 20220901

Calculation Date/Time: 2023-06-13T15:53:29-07:00

05

Number of Zones

1

05

Zone Floor Area (ft²) Avg. Ceiling Height Water Heating System 1

11.6

06

Gross Area (ft²)

365.4

232

132.4

177.9

06

Number of Ventilation

Cooling Systems

0

06

DHW Sys 1

07

Window and Door

Area (ft2)

21

12.2

6.2

Report Generated: 2023-06-13 15:53:53

62.7

Input File Name: BureauofEngineeringADURevB.ribd22x

Registration Number: 423-P010101735A-000-0000000-0000 Registration Date/Time: 06/14/2023 15:55
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03

1

Number of Dwelling

R-23

Units

detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

CA Building Energy Efficiency Standards - 2022 Residential Compliance

Project Name: Residential Building

HERS FEATURE SUMMARY

Calculation Description: Title 24 Analysis

Quality insulation installation (QII) Indoor air quality ventilation Kitchen range hood Verified Refrigerant Charge

Airflow in habitable rooms (SC3.1.4.1.7) Verified heat pump rated heating capacity

Wall-mounted thermostat in zones greater than 150 ft2 (SC3.4.5)

First Floor

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

COMPLIANCE METHOD Project Name: Residential Building Calculation Description: Title 24 Analysis

Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0.98	6.68	2.21	15.99	-1.23	-9.31
Space Cooling	1.8	44.49	1.09	33.39	0.71	11.1
IAQ Ventilation	0.87	9.15	0.87	9.15	0	0
Water Heating	3.9	40.53	2.85	31.72	1.05	8.81
Self Utilization/Flexibility Credit		Ní		0		0
Efficiency Compliance Total	7.55	100.85	7.02	90.25	0.53	10.6
Photovoltaics	-4.4	-130.75	-4.4	-130.06		
Battery			0	0		
Flexibility						
Indoor Lighting	1.29	12.13	1.29	12.13		
Appl. & Cooking	8.27	98.47	8.18	97.6		
Plug Loads	8.6	87.44	8.6	87.44		
Outdoor Lighting	0.24	2.07	0.24	2.07		
TOTAL COMPLIANCE	21.55	170.21	20.93	159.43		

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Project Na Calculatio			e 24 Analysis										53:29-07:00 DURevB.ribd2	2x	(Page 6 c
OPAQUE S	JRFACES														
)1		02	0	3		04		05			06	0		08
Na	me		Zone	Constr	uction	A	zimuth	0	rientation		Gros	s Area (ft ²)		and Door (ft2)	Tilt (deg)
Wes	t Wall		First Floor	R-:	23		270		n/a			232	3	6	90
OPAQUE S	JRFACES -	CATHEDRA	AL CEILINGS	_											
01		02	03	04		05	C	6	0	7		08	09	10	11
Name		Zone	Construction	Azimut	h Or	rientation	Area	(ft ²)	Skyligh (ft	_	Roc	of Rise (x in 12)	Roof Reflectance	Roof Emitta	ance Cool Roo
Roof		First Floor	R-38 Roof No Attic	0 0		n/a	4	20	C			7	0.27	0.75	Yes
FENESTRAT	ION / GLA	ZING													
01		02	03	04	05	06	07	08	09	10	D	11	12	13	14
Name		Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-fa	ctor	U-factor Source	SHGC	SHGC Sourc	e Exterior Sha
Windo	w \	Vindow	North Wall		0			1	21	0.	3	NFRC	0.2	NFRC	Bug Scree
Window	/2 \	Vindow	East Wall		90			1	12.2	0.	3	NFRC	0.2	NFRC	Bug Scree
Window	/3 \	Vindow	Southeast Wall	Front	135			1	62.7	0.	3	NFRC	0.2	NFRC	Bug Scree
Window	4 ۱	Vindow	Southwest Wall	Left	225			1	6.2	0.	3	NFRC	0.2	NFRC	Bug Scree
Window	/5 \	Vindow	West Wall		270			1	36	0.	3	NFRC	0.2	NFRC	Bug Scree
SLAB FLOO	RS														
(1		02	03		04			05			06		07	08
Na	me		Zone	Area (ft ²)	Perimete	r (ft)	-	Insul. R-va nd Depth	lue	-	insul. R-valu and Depth	e Carpete	d Fraction	Heated
	ab		First Floor	420		99			none			0		0%	No

Registration Number: 423-P010101735A-000-00000000-0000 Registration Date/Time: 06/14/2023 15:55 HERS Provider: CHEERS NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot guarantee, the accuracy or completeness of the information contained in this document. Report Generated: 2023-06-13 15:53:53 Report Version: 2022.0.000 CA Building Energy Efficiency Standards - 2022 Residential Compliance Schema Version: rev 20220901

05

Verified

SEER/SEER2

Not Required

05

Wall Mount

Thermostat

05 Includes

Heat/Energy Recovery?

No

CHEERS efore, CHEERS is not responsible for, d: 2023-06-13 15:53:53

7	8

10

11

12

Required Required Required

15

16

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14

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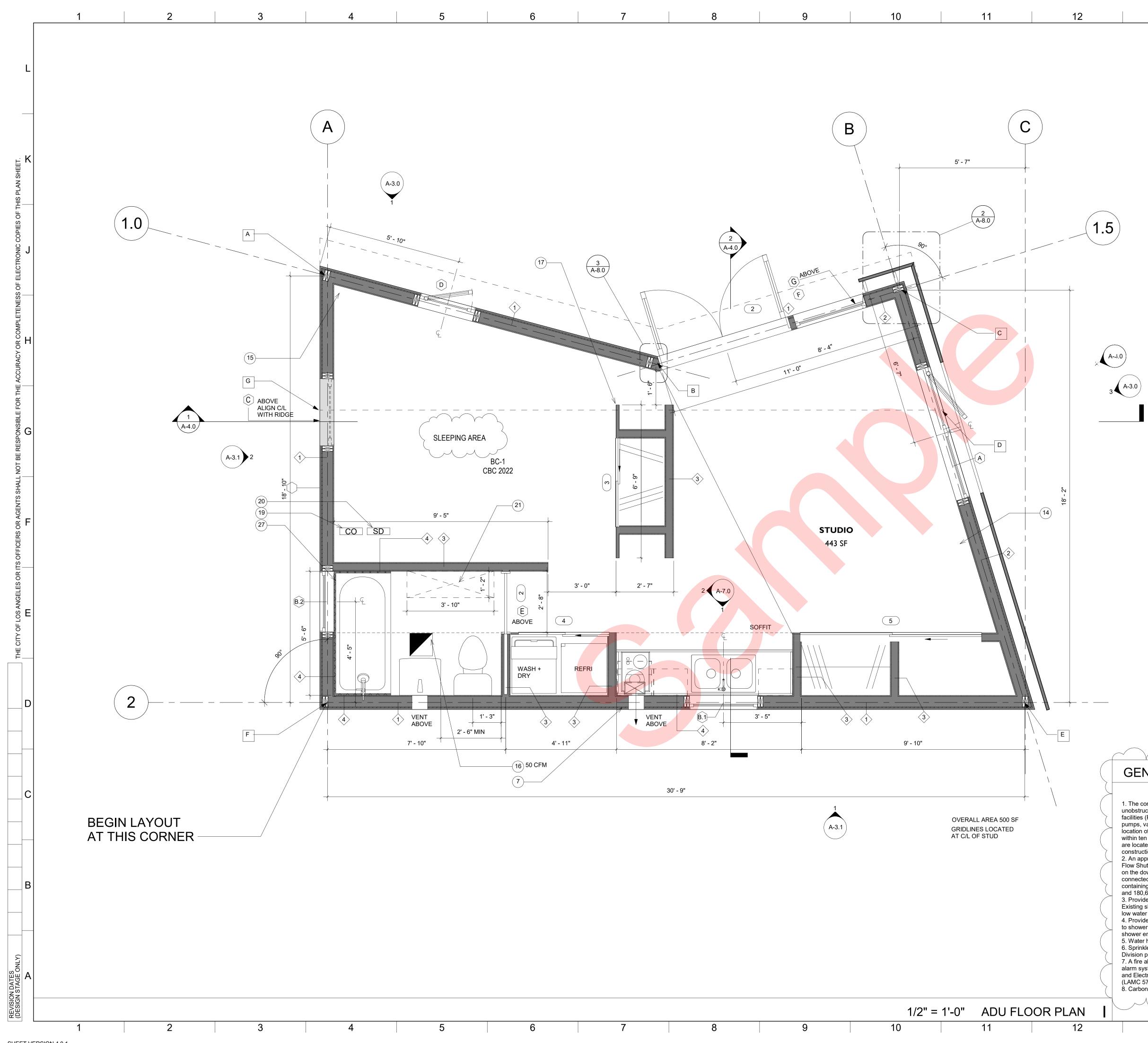
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Required		Yes		No)		Yes		Yes	
05		06		07	08	3	09		10	
all Mount ermostat		Air Filter Sizing Camp; Pressure Drop Rating	C Cor	/ Leakage Ducts in Inditioned Space	Minin Airflov RA3.3 SC3.3.	v per and	Certified non-continue Fan	ous	Indoor Fan not Running Continuously	
equired		Not required	Not	required	Not req	uired	Not require	ed Not required		
05		06		07	,		08		09	
ncludes at/Energy ecovery?		IAQ Recove Effectiveness		Includes Indicator I		HERS	Verification	ion Status		
No		n/a / n/a		No)		Yes			

Registration Number: 423-P010101735A-000-000-0000000-0000 NOTICE: This document has been generated by California Home Energy Efficiency Rating Services (CHE and cannot guarantee, the accuracy or completeness of the information contained in this document.	Registration Date/Time: 06/14/2023 15:55 ERS) using information uploaded by third parties not affiliated w	HERS Provider: CHEERS with or related to CHEERS. Therefore, CHEERS is not responsible for,
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	NOTES - INTERIORS
Note Number	Note Text
1	SHOWER
2	FRAMELESS MIRROR MEDICINE CABINET WITH SCONCE LIGHT
3	BATHTUB
4	LAVATORY
5	TOILET
7	<varies></varies>
8	KITCHEN ELECTRIC COOKTOP
9	DECK MOUNTED KITCHEN FAUCET
10	PLASTIC LAMINATE UPPER CASEWORK, TYP.
11	PLASTIC LAMINATE LOWER CASEWORK, TYP.
12	SOLID SURFACE COUNTERTOP AND 4" BACKSPLASH
13	DUAL BOWL STAINLESS STEEL SINK
14	COLOR EPOXY
15	CLEAR SEAL CONCRETE LEVEL 3 FINISH
16	ENERGY STAR COMPLIANT BATHROOM EXHAUST FAN WITH HUMIDISTAT VENTED TO OUTSIDE
17	FREESTANDING CLOSET - J
18	CONVENIENCE OUTLET
19	CARBON MONOXIDE DETECTOR
20	SMOKE DETECTOR
21	SKYLIGHT
22	MAINTAIN 18" MINIMUM CLEARANCE BETWEEN SOLAR PANELS AND ROOF EDGE
23	ALUMINUM RAIN DIVERTER FLASHING
24	BOX GUTTER AND DOWNSPOUT
25	ASPHALT SHINGLE COOL ROOF, CLASS A; UL ER2453-02
26	EAVES OVERHANG
27	FRP PANEL PER ELEVATION

TOP OF PLATE ELEVATIONS

Α	+8' - 0"
В	+12' - 0"
С	+9' - 0"
D	+13' - 9"
Е	+7' - 0"
F	+7' - 0"
G	+13' - 9"

BC-1 CBC 2022

GENERAL NOTES

1. The construction shall not restrict a five-foot clear and unobstructed access to any water or power distribution facilities (Power poles, pull-boxes, transformers, vaults, pumps, valves, meters, appurtenances, etc.) or to the location of the hook-up. The construction shall not be within ten feet of any power lines-whether or not the lines are located on the property. Failure to comply may cause construction delays and/or additional expenses. 2. An approved Seismic Gas Shut Off Valve or Excess Flow Shut Off Valve will be installed on the fuel gas line

on the down-stream side of the utility meter and be rigidly connected to the exterior of the building or structure containing the fuel gas piping. (Per Ordinance 170,158 and 180,670) Separate plumbing permit is required. 3. Provide ultra-flush water closets for all new construction. Existing shower heads and toilets must be adapted for low water consumption low water consumption.

4. Provide (70) (72) inch high non-absorbent wall adjacent to shower and approved shatter-resistant materials for shower enclosure. (1210.2.3, 2406.4.5, R307.2, R308.4) 5. Water heater must be strapped to wall. (507.3 & LAPC) 6. Sprinkler system must be approved by the Mechanical Division prior to installation.

7. A fire alarm (visual and audible) system is required. The alarm system must be approved by the Fire Department and Electrical Plan Check prior to installation. (LAMC 57.122)

8. Carbon monoxide alarm is required per (420.6, R315)

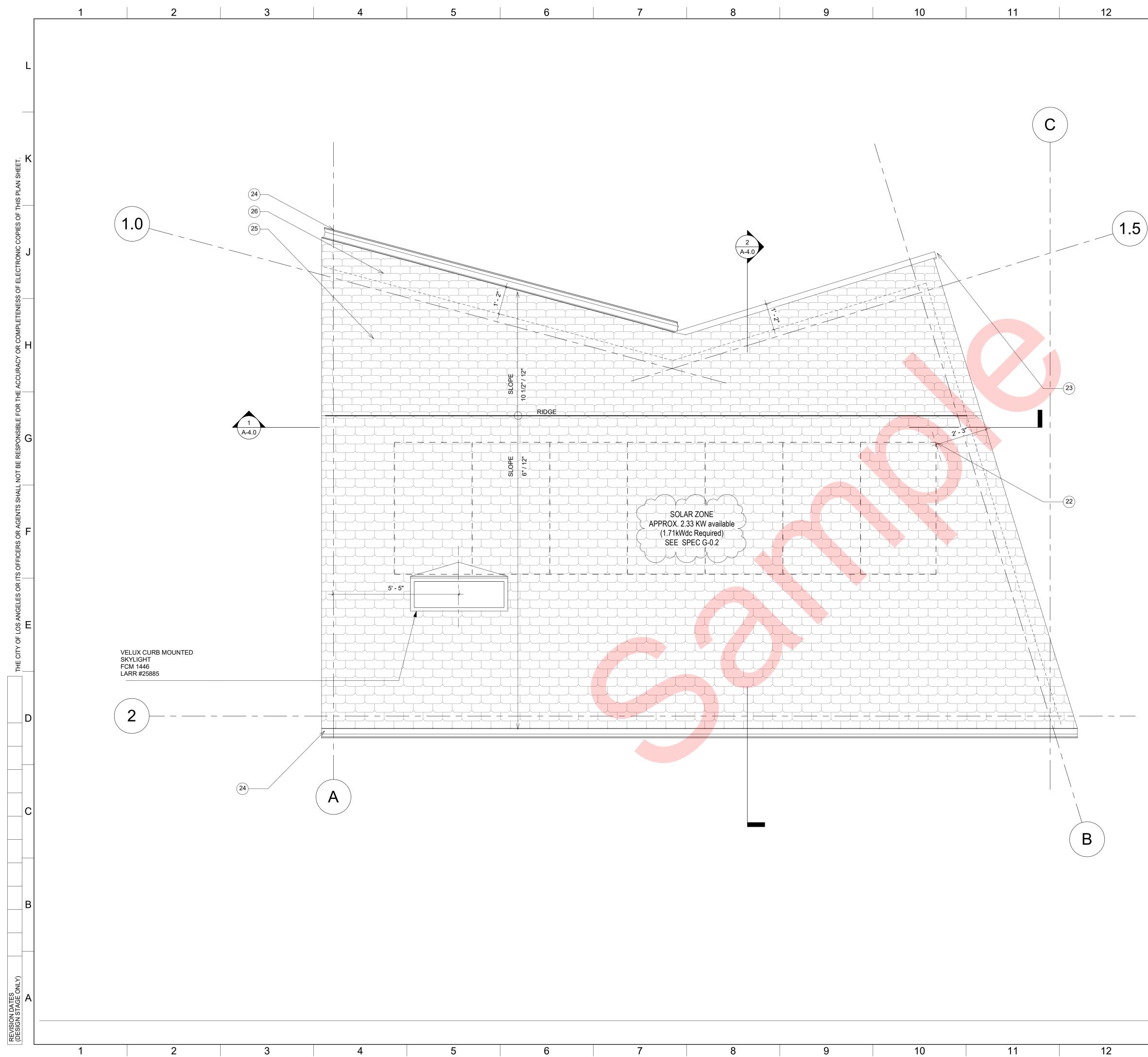
13

LEGEND

- (101) DOOR, SEE SCHEDULE A-7.0 (1t) WINDOW, SEE SCHEDULE A-7.0 (1) WALL, SEE SCHEDULE A-7.0
- A TOP PLATE ELEVATION, SEE SCHEDULE A-2.0
- (1) KEYNOTE, SEE SCHEDULE THIS SHEET

14

16



1	5		16		7				N I I		DI		
	NOTES - IN	ITERIORS	3					GI			RI		7
r		Note Text				С	ITY	OF	LO	S A	NG	ELE	S
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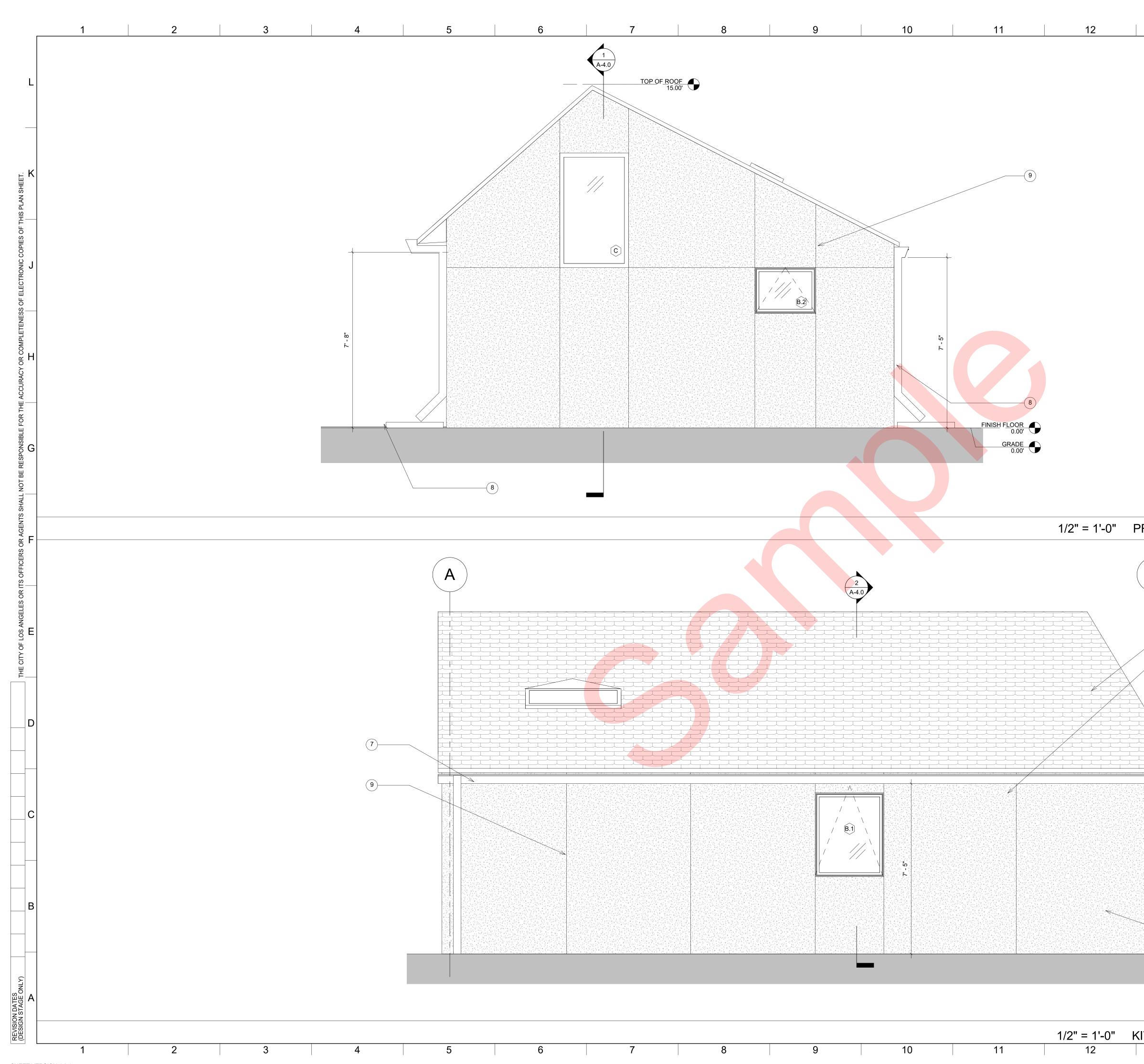
	Note Number	Note Text
	2	FRAMELESS MIRROR MEDICINE CABINET WITH
	3	SCONCE LIGHT BATHTUB
	4 5	LAVATORY TOILET
	7	<varies></varies>
	8	KITCHEN ELECTRIC COOKTOP
	9	DECK MOUNTED KITCHEN FAUCET
	10	PLASTIC LAMINATE UPPER CASEWORK, TYP.
	11	PLASTIC LAMINATE LOWER CASEWORK, TYP.
	12	SOLID SURFACE COUNTERTOP AND 4"
	13	BACKSPLASH DUAL BOWL STAINLESS STEEL SINK
	14	
	15	CLEAR SEAL CONCRETE LEVEL 3 FINISH
	16	ENERGY STAR COMPLIANT BATHROOM EXHAUST FAN WITH HUMIDISTAT VENTED TO OUTSIDE
	17	FREESTANDING CLOSET - OPTIONAL
	18	CONVENIENCE OUTLET
	19 20	CARBON MONOXIDE DETECTOR SMOKE DETECTOR
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	24	BOX GUTTER AND DOWNSPOUT
	25	ASPHALT SHINGLE COOL ROOF, CLASS A; UL
	26	ER2453-02 EAVES OVERHANG
	27	FRP PANEL PER ELEVATION
1/2" = 1'-0" ROOF PLAN		
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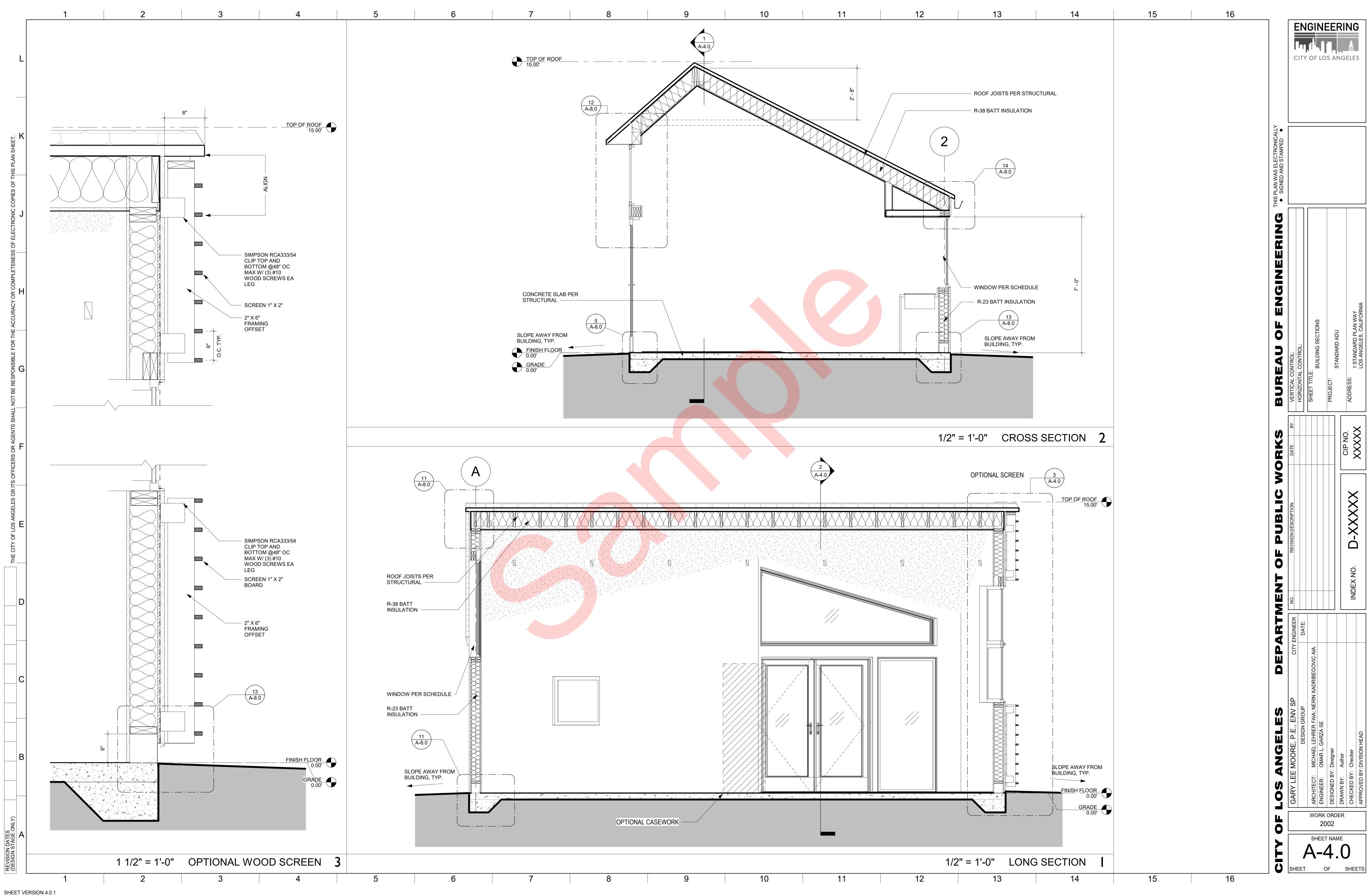
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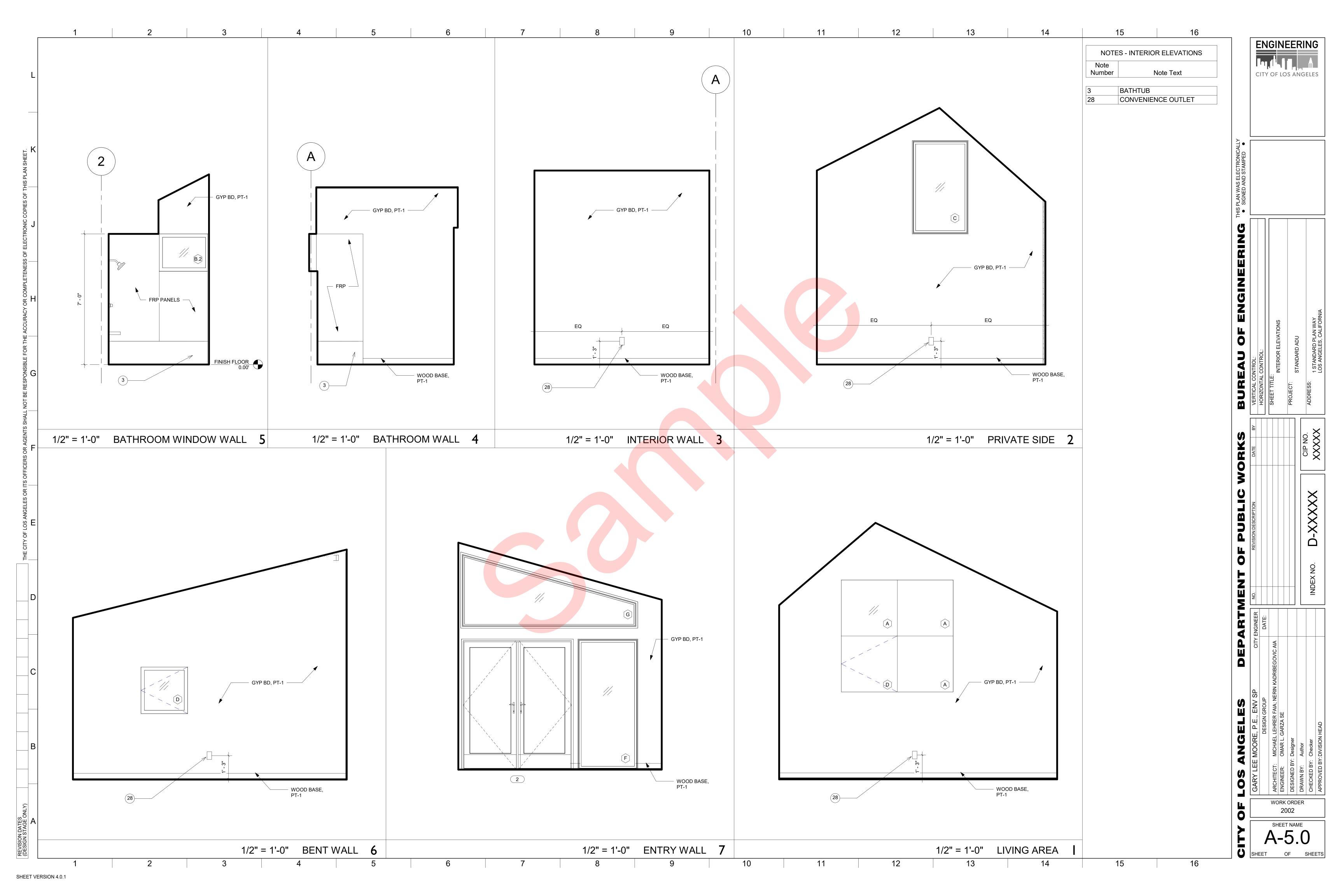
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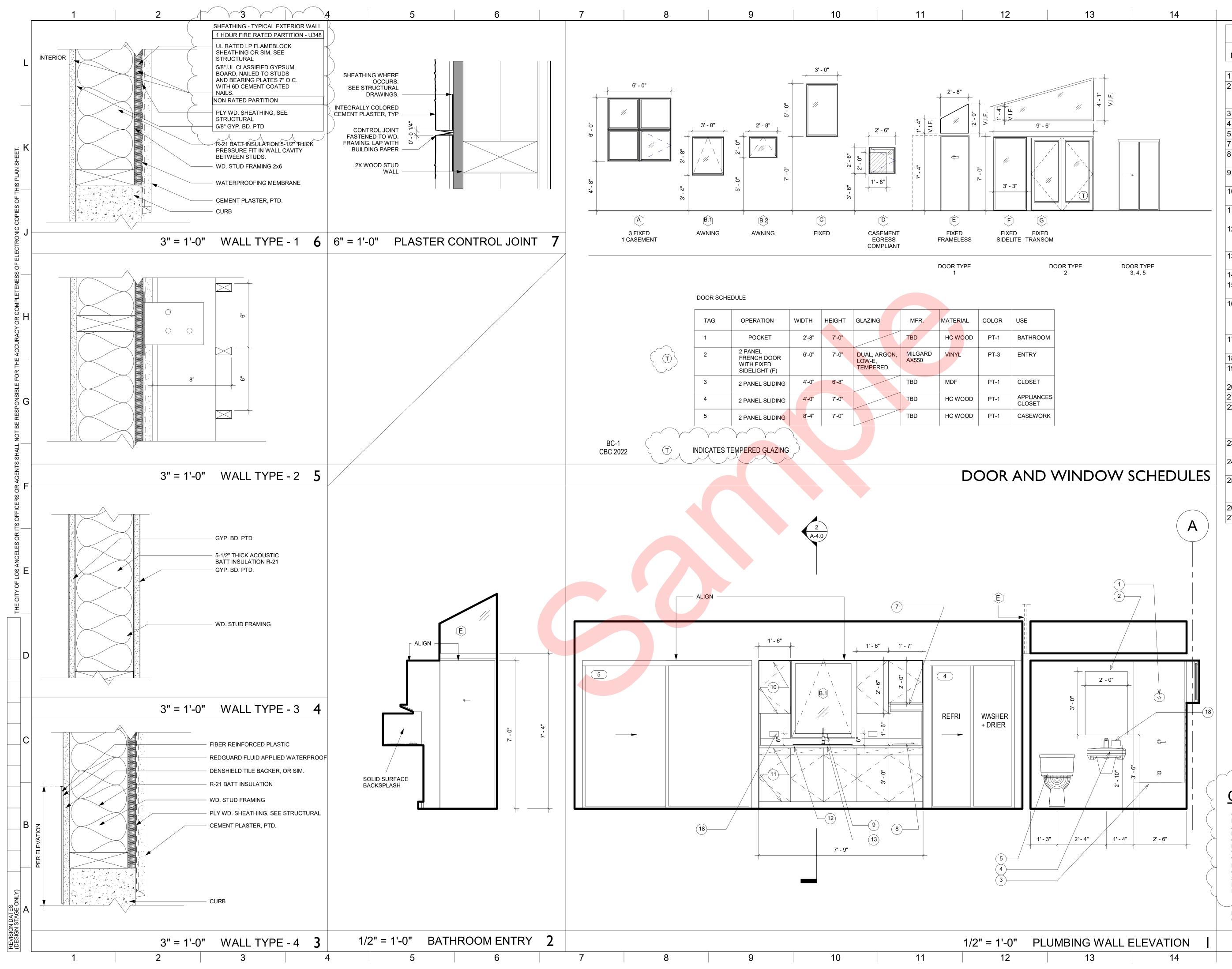
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		4	PAINTED - OPTION ASPHALT SHINGL	NAL							
		5	ROOF, CLASS A FASCIA BOARD, P		• FT						
		6	PLASTER CEMEN SYSTEM, INTEGRA BOX GUTTER AND	AL COLOR	PLAN WAS ELECTRONICALLY SIGNED AND STAMPED ●						
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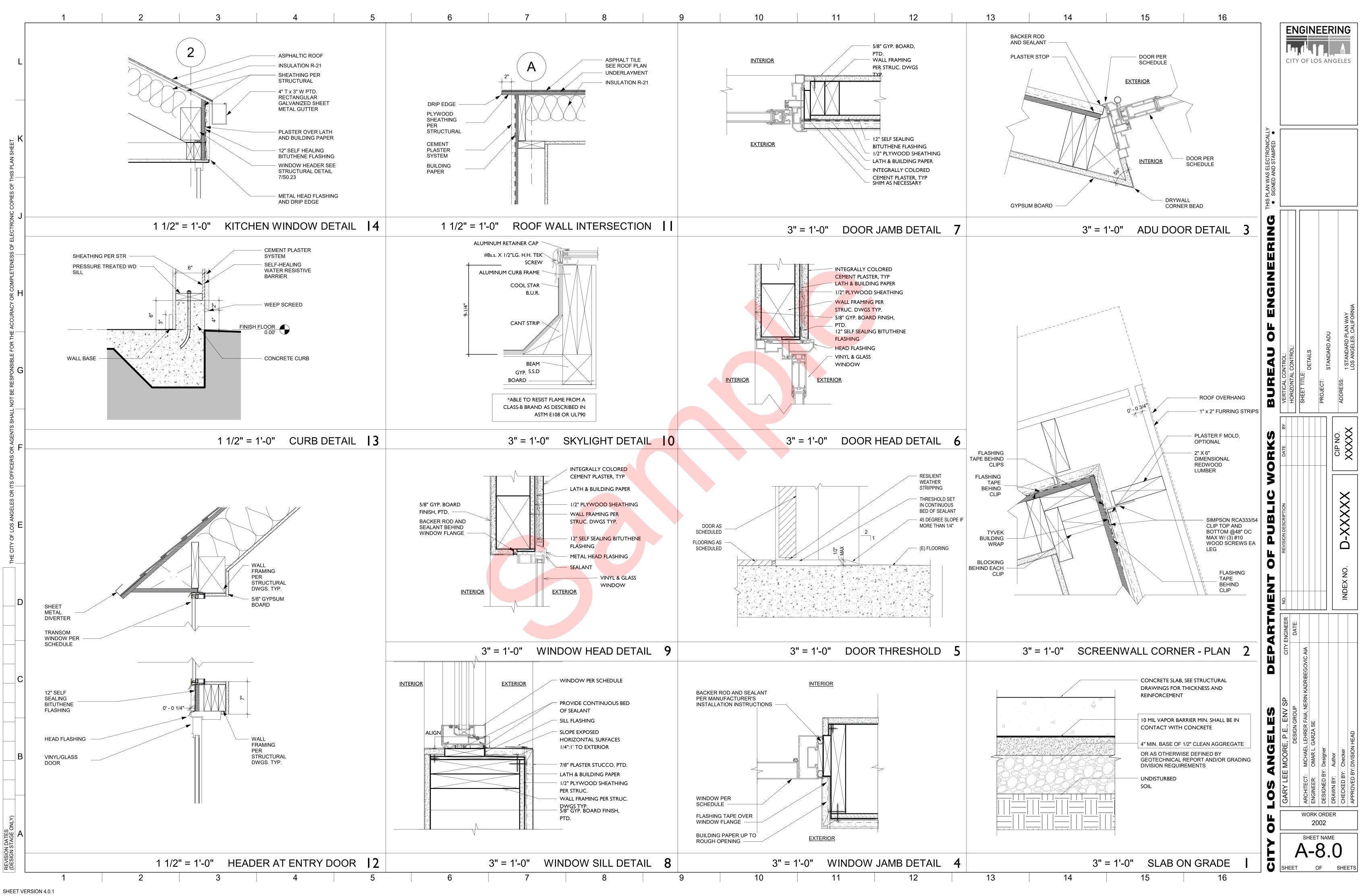
SHEET VERSION 4.0.1

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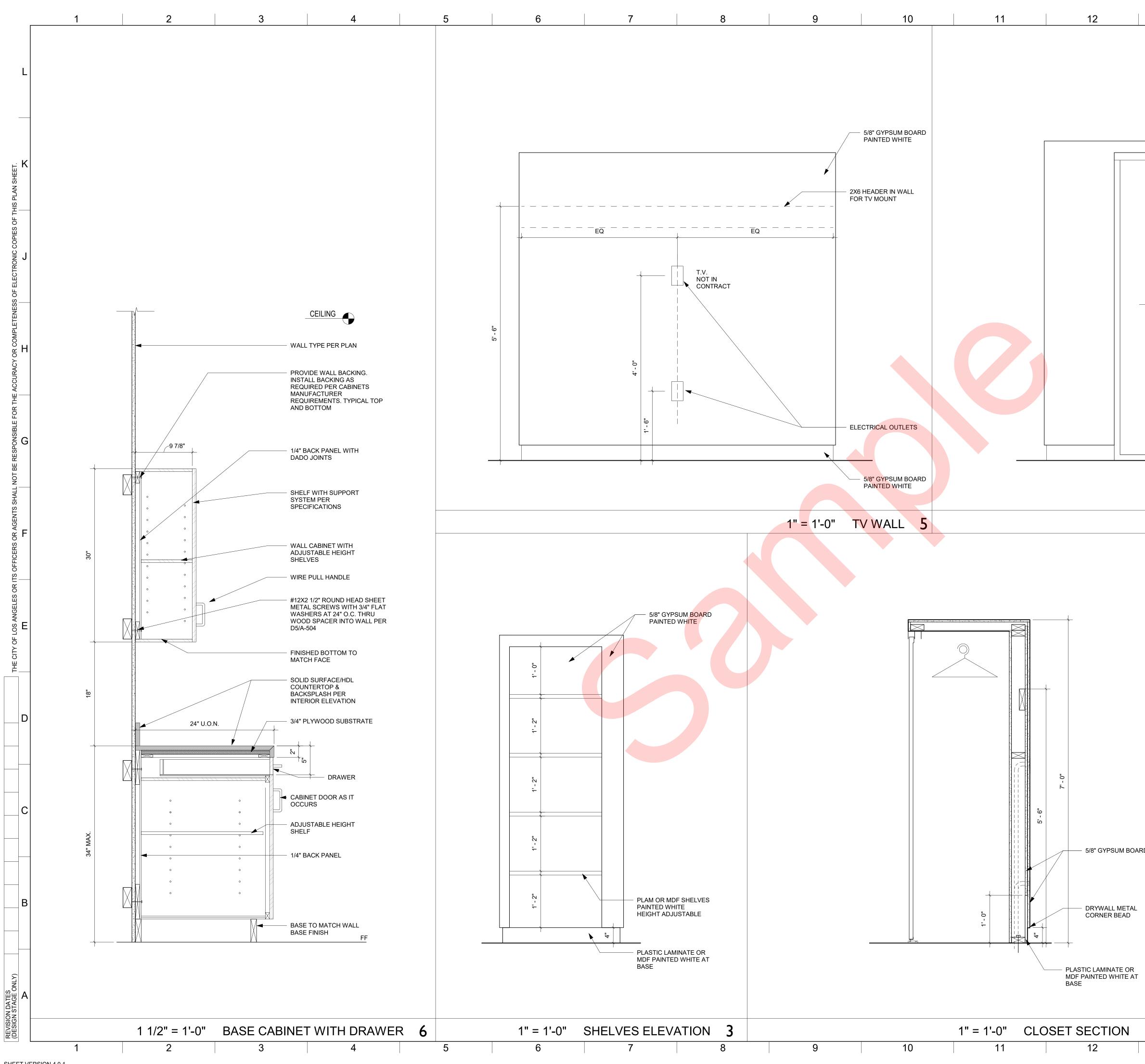
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	NOTES - INTERIORS
Note Number	Note Text
1	SHOWER
2	FRAMELESS MIRROR MEDICINE CABINET WITH SCONCE LIGHT
3	BATHTUB LAVATORY
5	TOILET
7 8	<varies> KITCHEN ELECTRIC</varies>
9	COOKTOP DECK MOUNTED KITCHEN
10	FAUCET PLASTIC LAMINATE UPPER
11	CASEWORK, TYP. PLASTIC LAMINATE LOWER
12	CASEWORK, TYP. SOLID SURFACE
	COUNTERTOP AND 4" BACKSPLASH
13	DUAL BOWL STAINLESS STEEL SINK
14 15	COLOR EPOXY CLEAR SEAL CONCRETE
16	LEVEL 3 FINISH ENERGY STAR COMPLIANT BATHROOM EXHAUST FAN WITH HUMIDISTAT VENTED TO OUTSIDE
17	FREESTANDING CLOSET - OPTIONAL
18	
19	CARBON MONOXIDE DETECTOR
20 21	SMOKE DETECTOR SKYLIGHT
22	MAINTAIN 18" MINIMUM CLEARANCE BETWEEN SOLAR PANELS AND ROOF EDGE
23	ALUMINUM RAIN DIVERTER
24	BOX GUTTER AND DOWNSPOUT
25	ASPHALT SHINGLE COOL ROOF, CLASS A; UL
26	ER2453-02 EAVES OVERHANG
27	FRP PANEL PER ELEVATION
<u>GEN</u>	ERAL NOTES

GLAZING IN HAZARDOUS LOCATIONS SHALL BE TEMPERED (2406.4, R308.4): A. INGRESS AND EGRESS DOORS B. PANELS IN SLIDING OR SWINGING DOORS C. DOORS AND ENCLOSURE FOR HOT TUB, BATHTUB, SHOWERS (ALSO GLAZING IN WALL ENCLOSING THESE COMPARTMENTS WITHIN 5' OF STANDING SURFACE) D. IF WITHIN 2' OF VERTICAL EDGE OF CLOSED DOOR AND WITHIN 5' OF STANDING SURFACE E. IN WALL ENCLOSING STAIRWAY LANDING F. GUARDS AND HANDRAILS

BC-1 CBC 2022



SHEET VERSION 4.0.1



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	(4) SHELF BRACKETS					ENT OF PUBLIC	NO. REVISION DESCRIPTION		INDEX NO. D-XXXX	
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CAST IN PLACE CONCRETE PORTION, MIX, TRANSPORT, AND PLACE CAST-IN-PLACE CONCRETE IN ACCORDANCE WITH ACI 301 SCIFCATIONS FOR STRUCTURAL CONCRETE; UON. CREETE IS REINFORCED AND CAST-IN-PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS MONTOR RIFLAND CONDOR OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAI SHOWN RIMLAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE. IGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO 14 INCH AMPLITUDE AND CLEAN OF LATANCE, RIGH NATTER, AND LOSSE PARTICLES. OCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING CONCRETE, ROUGHEN CONTACT SURFACES TO 1/4 AMPLITUDE AND CLEAN OF LATANCE, FOREION MATTER, AND LOSSE PARTICLES. OCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING MASONRY. THOROUGHLY ROUGHEN CONTACT FRACES BY LIGHT SANDBULASTING OR OTHER SUITABLE MEANS AND CLEAN OF LATANCE, FOREIGN MATTER, 10.00SE PARTICLES. COCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING MASONRY. THOROUGHLY ROUGHEN CONTACT FRACES BY LIGHT SANDBULASTING OR OTHER SUITABLE MEANS AND CLEAN OF LATANCE, FOREIGN MATTER, 10.00SE PARTICLES. COCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING MASONRY. THOROUGHLY ROUGHEN CONTACT THEY THOUSEKEEPING PADS NOT SHOWN. UNDER SERVERTING TO REVIEW AND APPROVAL EVEN SERVERTING PADS NOT SHOWN. WATER FORGEROATE STORY PERFORMANCE ON PREVIOUS APPLICATIONS. TITMOUSTICH, COCRETE SLABS-O	N MXMCDMAGE PEV/CE: FLATE SMALL BE 0238630A NMM. REF_REF_REF_REF_REF_REF_REF_REF_REF_REF_
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6 THROUGH #18 BARS 2" 5 BAR, W31 OR D31 WIRE, AND SMALLER 1 1/2" NCRETE NOT EXPOSED TO EARTH OR WEATHER: 1 1/2" LABS, WALLS, JOISTS: #14 AND #18 BARS 1 1/2" LABS, WALLS, JOISTS: #11 AND SMALLER 3/4" EAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS AND 1 1/2" OPS 1 1/2" MING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STD ADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN LUMBER ADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). USE LUMBER OF THE FOLLOWING ADES:	5A STUD TO SOLE PLATE 4-8d COMMON 3-3" 14 GA STAPLES TOE NAIL 5B STUD TO SOLE PLATE 2-16d COMMON 3-3" 14 GA STAPLES END NAIL 6 DOUBLE STUDS 16d COMMON @ 24" OC 3" 14 GA STAPLES @ 10" OC FACE 7A DOUBLE TOP PLATE 16d COMMON 14 GA STAPLES @ 12" OC TYP FACE 7B DOUBLE TOP PLATE 8-16d COMMON 12-3" 14 GA STAPLES LAP 8 BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE 8-4d COMMON 3-3" 14 GA STAPLES @ 6" OC TOE NAIL 9 RIM JOISTS TO TOP PLATE 8-d COMMON @ 6" OC 3" 14 GA STAPLES @ 6" OC TOE NAIL 10 TOP PLATES, LAPS AND INTERSECTIONS 2-16d COMMON 3-3" 14 GA STAPLES FACE 11 CONT HEADER, TWO PIECES 16d COMMON 3-3" 14 GA STAPLES FACE 11 CONT HEADER, TWO PIECES 16d COMMON 3-3" 14 GA STAPLES FACE 12 CEILING JOISTS TO PLATE 8-d COMMON 3-3" 14 GA STAPLES FACE 12 CEILING JOISTS TO PLATE 8-d COMMON 3-3" 14 GA STAPLES FACE 12 CEILING JOISTS TO PLATE 8-d COMMON
NCRETE NOT EXPOSED TO EARTH OR WEATHER: LABS, WALLS, JOISTS: #14 AND #18 BARS LABS, WALLS, JOISTS: #11 AND SMALLER EAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS AND 1 1/2" OPS MING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STD ADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN LUMBER ADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). USE LUMBER OF THE FOLLOWING ADES:	6 DOUBLE STUDS 16d COMMON @ 24" OC 3" 14 GA STAPLES @ 8" OC FACE 7A DOUBLE TOP PLATE 16d COMMON @ 16" OC 3" 14 GA STAPLES @ 12" OC TYP FACE 7B DOUBLE TOP PLATE 8-16d COMMON 12:3" 14 GA STAPLES LAP 8 BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE 3-8d COMMON 3-3" 14 GA STAPLES LAP 9 RIM JOISTS TO TOP PLATE 8d COMMON @ 6" OC 3" 14 GA STAPLES TOE NAIL 10 TOP PLATES, LAPS AND INTERSECTIONS 2-16d COMMON 3-3" 14 GA STAPLES FACE 11 CONT HEADER, TWO PIECES 16d COMMON 3-3" 14 GA STAPLES FACE 12 CEILING JOISTS TO PLATE 3-8d COMMON 3-3" 14 GA STAPLES FACE 12 CEILING JOISTS TO TOP PLATE 8d COMMON 3-3" 14 GA STAPLES FACE 12 CEILING JOISTS TO TOP PLATE 16d COMMON 3-3" 14 GA STAPLES FACE 12 CEILING JOISTS TO PLATE 3-8d COMMON 3-3" 14 GA STAPLES FACE 12 CEILING JOISTS TO PLATE 3-8d COMMON 3-3" 14 GA STAPLES FACE 12 CEILING JOISTS TO PLATE 3-8d COMMON
LABS, WALLS, JOISTS: #14 AND #18 BARS 1 1/2" LABS, WALLS, JOISTS: #11 AND SMALLER 3/4" EAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS AND 1 1/2" OPS 1 1/2" MING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STD ADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN LUMBER ADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). USE LUMBER OF THE FOLLOWING ADES:	7A DOUBLE TOP PLATE 16d COMMON @ 16" OC 3" 14 GA STAPLES @ 12" OC TYP FACE 7B DOUBLE TOP PLATE 8-16d COMMON 12-3" 14 GA STAPLES LAP 8 BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE 3-8d COMMON 3-3" 14 GA STAPLES TOE NAIL 9 RIM JOISTS TO TOP PLATE 8d COMMON @ 6" OC 3" 14 GA STAPLES @ 6" OC TOE NAIL 9 RIM JOISTS TO TOP PLATE 8d COMMON @ 6" OC 3" 14 GA STAPLES @ 6" OC TOE NAIL 10 TOP PLATES, LAPS AND INTERSECTIONS 2-16d COMMON 3-3" 14 GA STAPLES FACE 11 CONT HEADER, TWO PIECES 16d COMMON - 16" OC ALONG EDGE 12 CEILING JOISTS TO PLATE 3-8d COMMON 5-3" 14 GA STAPLES TOE NAIL
LABS, WALLS, JOISTS: #11 AND SMALLER 3/4" EAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS AND 1 1/2" OPS 1 1/2" MING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STD ADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN LUMBER ADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). USE LUMBER OF THE FOLLOWING ADES:	8 BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE 3-8d COMMON 3-3" 14 GA STAPLES TOE NAIL REPERENCE TO CODES, ROLES, REGULATIONS, STANDARDS, MANDRACTORERS INSTRUCTION REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN. 9 RIM JOISTS TO TOP PLATE 8d COMMON @ 6" OC 3" 14 GA STAPLES @ 6" OC TOE NAIL GR-3 VERIFY ALL DIMENSIONS, ELEVATIONS, & SITE CONDITIONS BEFORE STARTING WORK. 10 TOP PLATES, LAPS AND INTERSECTIONS 2-16d COMMON 3-3" 14 GA STAPLES FACE GR-4 REFER TO ARCHITECTURAL DRAWINGS FOR EXTERIOR SLABS. 11 CONT HEADER, TWO PIECES 16d COMMON - 16" OC ALONG EDGE GR-5 DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITION SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR CONSTRUCTION, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
<u>ROUGH CARPENTRY</u> MING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STD ADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN LUMBER ADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). USE LUMBER OF THE FOLLOWING ADES:	9 RIM JOISTS TO TOP PLATE 8d COMMON @ 6" OC 3" 14 GA STAPLES @ 6" OC TOE NAIL GR-3 VERIFY ALL DIMENSIONS, ELEVATIONS, & SITE CONDITIONS BEFORE STARTING WORK. 10 TOP PLATES, LAPS AND INTERSECTIONS 2-16d COMMON 3-3" 14 GA STAPLES FACE GR-4 REFER TO ARCHITECTURAL DRAWINGS FOR EXTERIOR SLABS. 11 CONT HEADER, TWO PIECES 16d COMMON - 16" OC ALONG EDGE GR-5 DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR CONSTRUCTION, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
MING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STD ADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN LUMBER ADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). USE LUMBER OF THE FOLLOWING ADES:	10 INTERSECTIONS 2-16d COMMON 3-3-14 GA STAPLES PACE GR4 Net Filt To Alton in Edition
MING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STD ADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB) OR WESTERN LUMBER ADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). USE LUMBER OF THE FOLLOWING ADES:	12 CEILING JOISTS TO PLATE 3-8d COMMON 5-3" 14 GA STAPLES TOE NAIL
ADING RULES, OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). USE LUMBER OF THE FOLLOWING ADES:	
-	VING LARGE CEILING JOISTS, LAPS OVER 2 164 COMMON 22 114 CA STADLES FACE
	GRADE 15 CEILING JOISTS PARALLEL 3-16d COMMON 4-3" 14 GA STAPLES FACE GR-7 DO NOT SCALE THE DRAWINGS.
)WOOD; 19% MOISTURE CONTENT, UON. STUDS: STUD GRADE; 19% MOISTURE CONTENT, UON.	IO RAFIERS GR-8 PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SU 16 RAFTER TO PLATE 3-8d COMMON 3-3" 14 GA STAPLES TOE NAIL INCLUDE, BUT MAY NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DURING CONSTRUCTION. SU
JOISTS, PLANKS AND PLATES: DF #2; 15% MOISTURE CONTENT, UON. BEAMS, DF #1; 19% MOISTURE CONTENT, UON.	17A BUILT-UP GIRDER BEAMS 20d COMMON @ 32" OC 3" 14 GA STAPLES @ 24" OC FACE NAIL @ T&B STAGGERED REGISTERED CIVIL ENGINEER WHOM IS PROPERLY QUALIFIED TO DESIGN BRACING, SHORING THE SITE BY THE OWNER'S REPRESENTATIVE WILL NOT INCLUDE OBSERVATION OF THE ABOV
POSTS, DF #1; 19% MOISTURE CONTENT, UON. FRAMING, BLOCKING AND BRIDGING: STUD GRADE; 15% MOISTURE CONTENT, UON.	17B BUILT-UP GIRDER BEAMS 2-20d COMMON 3-3" 14 GA STAPLES FACE NAIL @ ENDS & EACH SPLICE GR-9 INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS TO KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICE
PLYWOOD BLOCKING: DF #2; 19% MOISTURE CONTENT.	18 JOIST TO BAND JOIST 3-16d COMMON 4-3" 14 GA STAPLES TOE NAIL 18 JOIST TO BAND JOIST 3-16d COMMON 4-3" 14 GA STAPLES TOE NAIL
BACKING: PER CONSTRUCTION; 19% MOISTURE CONTENT IUFACTURED LUMBER:	GR-10 REFER TO ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF FLOOR, ROOF AND WALL O SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE THE SIZE AND LOCATION OF OPENING WITH DUT NOT HAVE TO DEFENSE AND DEFENSION OF OPENING
LVL: MICROLAM LVL 1.9E, ICC ESR-1387 & LARR 25202. PSL: PARALLAM PSL 2.0E, ICC ESR-1387 & LARR 25202.	REINFORCING STEEL REINFORCING STEEL IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING CONCRETE OF ADD ACTOR IS SOLID VIEWONS TO THE OWNER'S REPRESENTATIVE FOR REVIEW. THE CONTRACTOR IS SOLID VIEWONS TO THE OWNER'S REPRESENTATIVE FOR REVIEW.
IEL SHEATHING: IDENTIFY WOOD STRUCTURAL PANELS WITH THE APPROPRIATE TRADEMARK OF APA-THE GINEERED WOOD ASSOCIATION AND MEET THE REQUIREMENTS OF THE VOLUNTARY PRODUCT STD PS-1 OR	
2 AND APA PRP-108 PERFORMANCE STD. PANEL SHEATHING TO BE EXPOSURE 1.	CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3-FOOT SPACING.
PLYWOOD PANELS TO BE 5-PLY MINIMUM, EXCEPT 3/8" PANELS TO BE 3-PLY MINIMUM. OSB PANELS MAY BE USED WITH APPROVAL OF SEOR.	RE-3 TERMINATE REINFORCING STEEL IN STD HOOKS, UNLESS OTHERWISE SHOWN. RE-4 PROVIDE REINFORCING SHOWN OR NOTED CONTINUOUS IN LENGTHS AS LONG AS PRACTICABLE.
PLYWOOD TO BE C-C GRADE AT LOCATIONS EXPOSED TO WEATHER; CD GRADE ELSEWHERE. SHEATH ALL EXTERIOR WALLS WITH 15/32" PLYWOOD WITH 10d NAILS WITH (6",6",12") OC, (BN, EN, FN).	RE-5 REINFORCING STEEL #8 AND LARGER AND ALL REINFORCING STEEL TO BE WELDED TO BE ASTM A706, 60KSI. ALL SUBMITTAL REVIEW FOR ITEMS DESIGNED BY NOUS, 10 BUSINESS DAY REVIEW TIME IS REQUI
PROVIDE THE FOLLOWING GRADE AND SPAN RATINGS:	RE-6 SMOOTH DOWELS IN SLAB ON GRADE TO BE ASTM A36, 36KSI. SU-2 RFI REVIEW: ALLOW 5 BUSINESS DAY RESPONSE UNLESS OTHERWISE AGREED.
PANEL THICKNESSMINIMUM GRADEROOF/FLOOR RATING3/8STRUCTURAL 124/0	SU-3 SUBMIT COPIES OF REQUIRED SUBMITTALS TO OWNER'S REPRESENTATIVE FOR REVIEW. SU-4 CONCRETE REINFORCING STEEL:
7/16 STRUCTURAL 1 24/16 15/32 STRUCTURAL 1 32/16	EN FOUNDATION AND SITE WORK FOUNDATION AND SITE WORK - A. SUBMIT CERTIFIED MATERIAL CERTIFICATES FOR REINFORCING STEEL SIGNED BY THE MADE CONTRACTOR.
19/32 AND 5/8 CD/CC 40/20 3/4 CD/CC 48/24	FN-1 GROUNDWATER IS NOT EXPECTED TO BE A FACTOR IN DEVELOPMENT OF SITE. - B. SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE R FN-2 LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION. - B. SUBMIT SHOP DRAWINGS FOR FABRICATION, BENDING AND PLACEMENT OF CONCRETE R
7/8 AND 1 CD/CC 54/32	FN-3 REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED. STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER
1 1/8 CD/CC 60/48	FN-4 NOTIFY THE OWNER'S REPRESENTATIVE IF ANY BURIED STRUCTURES NOT INDICATED, SUCH AS CESSPOOLS, THE STATE OF CALIFORNIA FOR EACH CLASS OF CONCRETE. INCLUDE RESULTS OF SLUMP, SH CISTERNS, FOUNDATIONS, ETC., ARE FOUND.
NAILS: COMMON WIRE NAILS, FEDERAL SPECIFICATION FF-N-105B, STANDARD LENGTHS UON USE F-DIPPED ZINC-COATED GALVANIZED NAILS FOR EXTERIOR INSTALLATIONS AND WHEN PENETRATING	FN-5 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION. B. SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS FOR REVIEW.
SSURE TREATED OR FIRE-RETARDANT LUMBER. BOLTS AND THREADED RODS: ASTM A307, SQ OR HEXAGONAL HEAD MACHINE BOLTS WITH ASTM A563 NUTS	FN-6 REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE C. SUBMIT PRODUCT DATA FOR CURING MATERIALS.
MALLEABLE IRON WASHERS UNDER HEAD AND NUT WHEN IN CONTACT WITH WOOD. AT SILL PLATES USE "x3/16" MINIMUM PLATE WASHERS. AT ALL SHEARWALL SILL PLATE ANCHORS, USE THE FOLLOWING PLATE	SE REQUIRED.
SHERS: DIA ANCHOR BOLTS = 3"X3"X1/4" SQ. WASHER	
DIA ANCHOR BOLTS = 3"X3"X5/16" SQ. WASHER DIA ANCHOR BOLTS = 3"X3"X5/16" SQ. WASHER	
IA ANCHOR BOLTS = 3 1/2"X3 1/2"X3/8" SQ. WASHER	HEN
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STRUCTURAL DRAWING LIST								
Sheet Number Sheet Name								
S0 SERIES: SHEET LIST, GENERAL NOTES, TYPICAL DETAILS								
S0.00	00 GENERAL NOTES & SHEET LIST							
S0.10	TYPICAL CONCRETE DETAILS							
S0.20	TYPICAL WOOD DETAILS							
S0.21	TYPICAL WOOD DETAILS							
S0.23	TYPICAL WOOD DETAILS							
S1 SERIES: FOUNDATION & FRAM	L NG PLANS							
S1.00 FOUNDATION & ROOF FRAMING PLANS								
S8 SERIES: PROJECT SPECIFIC DR	S8 SERIES: PROJECT SPECIFIC DETAILS							
S8.1	CASEWORK DETAILS							

DESIGN CRITERIA DC

	DESIGN CRITERIA
DC-1	APPLICABLE CODE: 2019 CALIFORNIA BUILDING CODE WITH CITY OF LOS ANGELES AMENDMENTS
DC-2	PROJECT TYPE: NEW ADU
DC-3	TYPE OF CONSTRUCTION: LIGHT-FRAMED WOOD CONSTRUCTION ON SHALLOW FOUNDATIONS
DC-4	FOUNDATION DESIGNS ARE IN ACCORDANCE WITH THE MINIMUM DESIGN RECOMMENDATIONS FOUND IN CHAPTER 18 OF THE CALIFORNIA BUILDING CODE.
	ALLOWABLE NET SOIL PRESSURE = 1500 PSF
	ADU DESIGNED FOR LEVEL GRADE. CITY OF LOS ANGELES TO APPROVE ADU LOCATION. CONTRACTOR TO VERIFY CONSTRUCTION WILL NOT UNDERMINE OR SURCHARGE ADJACENT PROPERTIES.
DC-5	THE STRUCTURAL SCOPE INVOLVES THE CONSTRUCTION OF A NEW 1-STORY ADU.
DC-6	GRAVITY LOADS:
	DEAD LOADS
	ROOF = 15 PSF
	LIVE LOADS
	ROOF = 20 PSF (REDUCIBLE)
DC-7	SEISMIC DESIGN: THE STRUCTURE HAS BEEN EVALUATED IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE. THE FOLLOWING VALUES HAVE BEEN USED FOR THE DESIGN OF THE LATERAL FORCE RESISTING SYSTEM. SEISMIC DESIGN CATEGORY, SITE CLASS AND ALL SPECTRAL ACCELERATIONS SHOULD BE REVIEWED FOR SITE SPECIFIC VALUES.
	SITE CLASS = D (DEFAULT) ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE RHO = 1.3
	S _S = 2.000
	S ₁ = 0.740
	$S_{DS} = 1.600$ $S_{D1} = 0.839$
	I = 1.0 FOR OCCUPANCY CATEGROY (II)
	STRUCTURE: ADU LFRS = LIGHT-FRAMED WOOD SHEAR WALLS R = 6.5 OVERSTRENGTH = 2.5 Cs = 0.246 BASE SHEAR V= 8.24 K
DC-8	WIND DESIGN:
	BASIC WIND SPEED, V = 95MPH (3 SECOND GUST) EXPOSURE CATEGORY = B GUST EFFECT FACTOR = 0.85 Kd = 0.85 Kz = 0.70 ENCLOSURE CLASSIFICATION = ENCLOSED INTERNAL PRESSURE COEFFICIENT GCpi = ± 0.18 qz = 13.75 PSF

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600 WILSHIRE BLVD, SUITE 760 LOS ANGELES, CA 90017 213 627 6687 CONTACT@NOUSENGINEERING.COM OROFESSION EXP 12/31/2023 SAL PI 2 ∞

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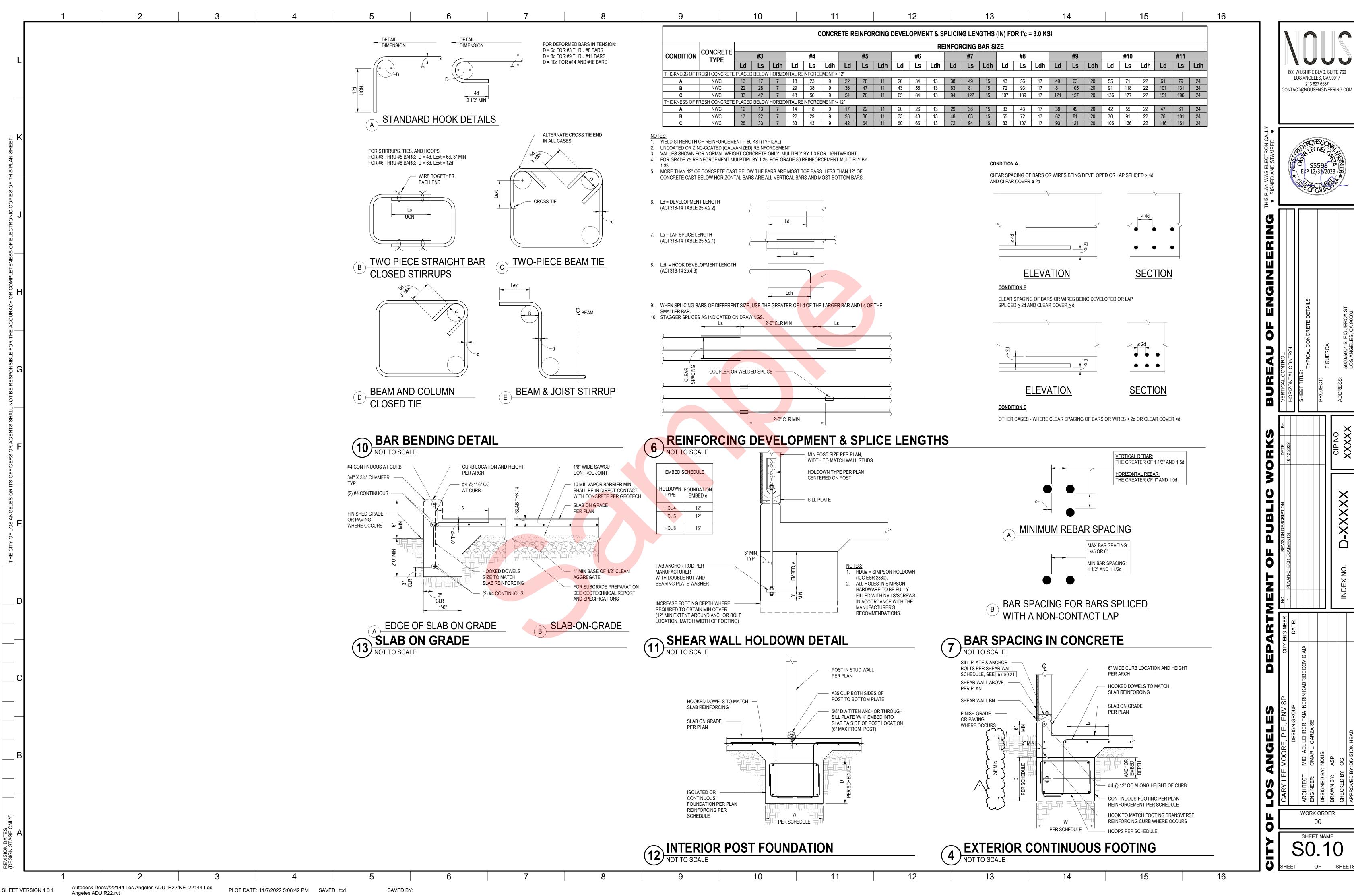
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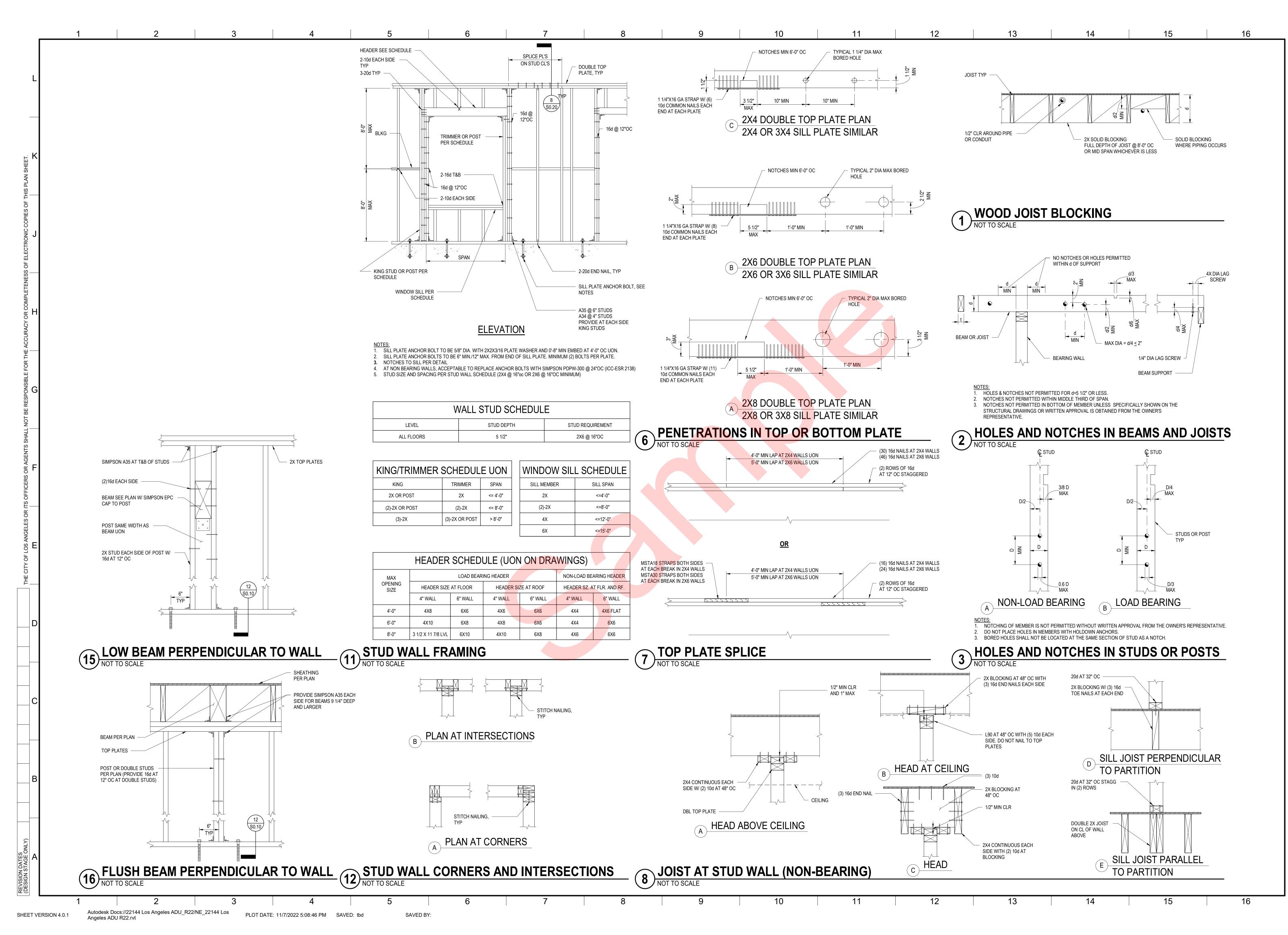
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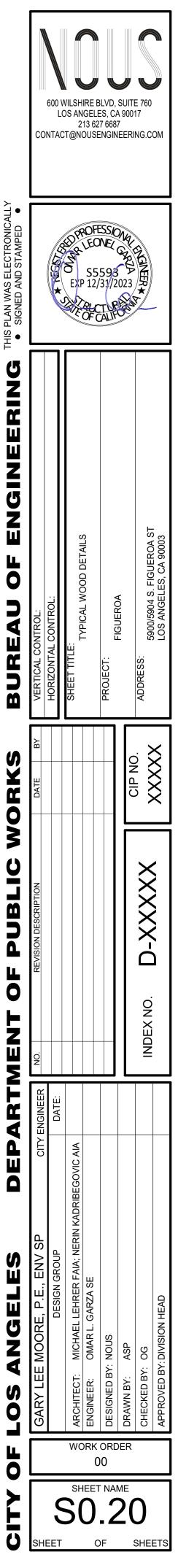
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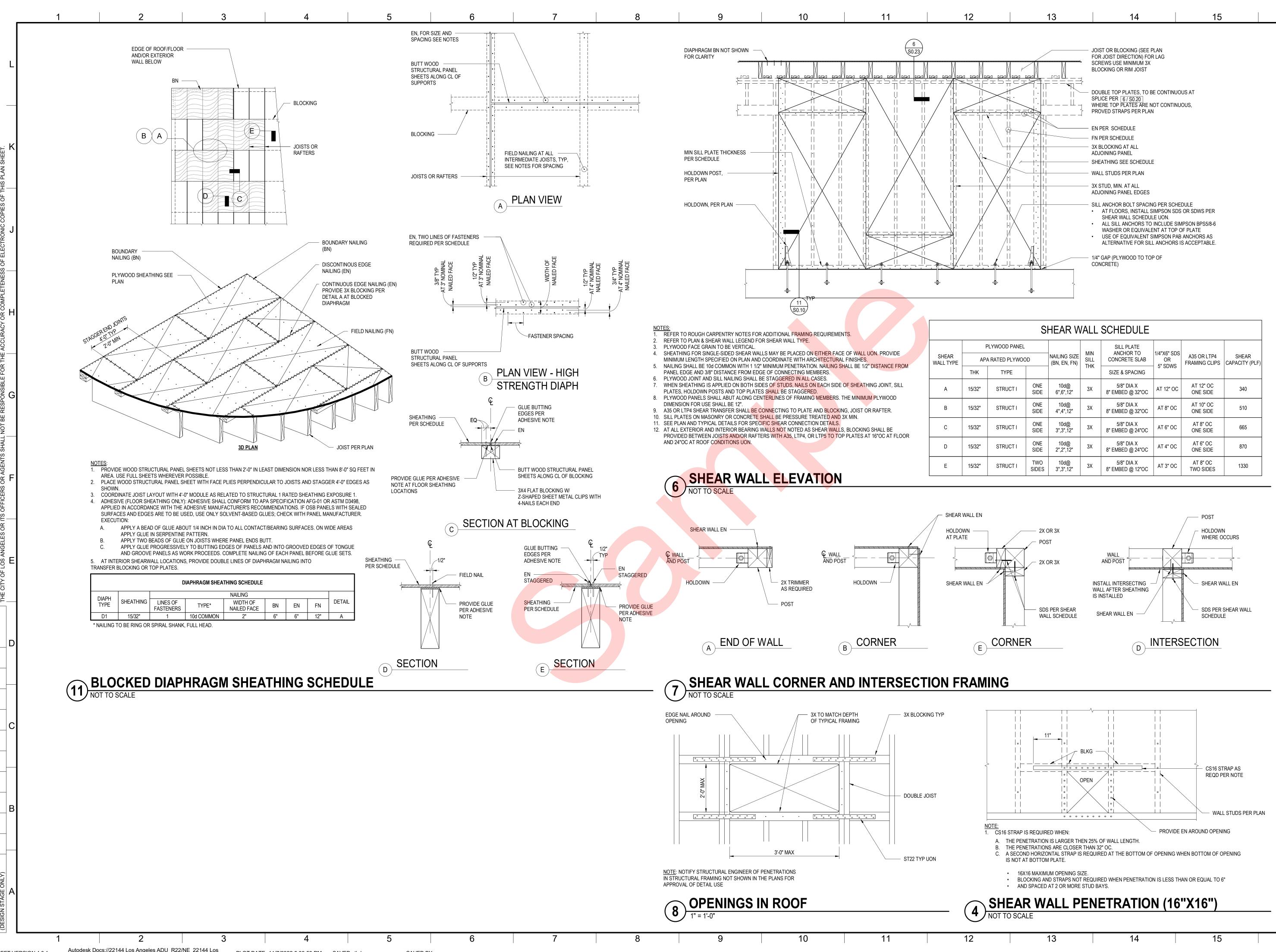
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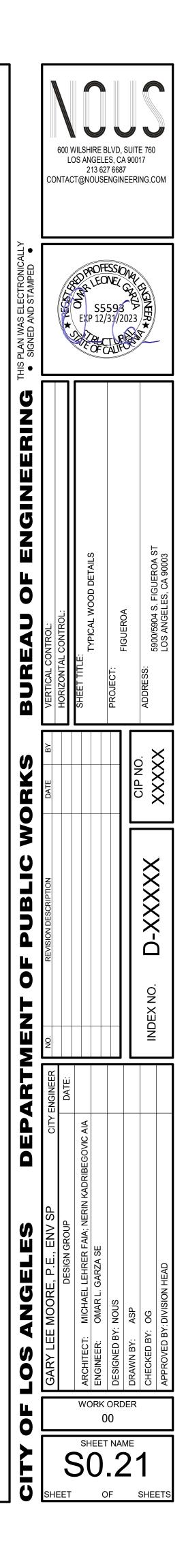


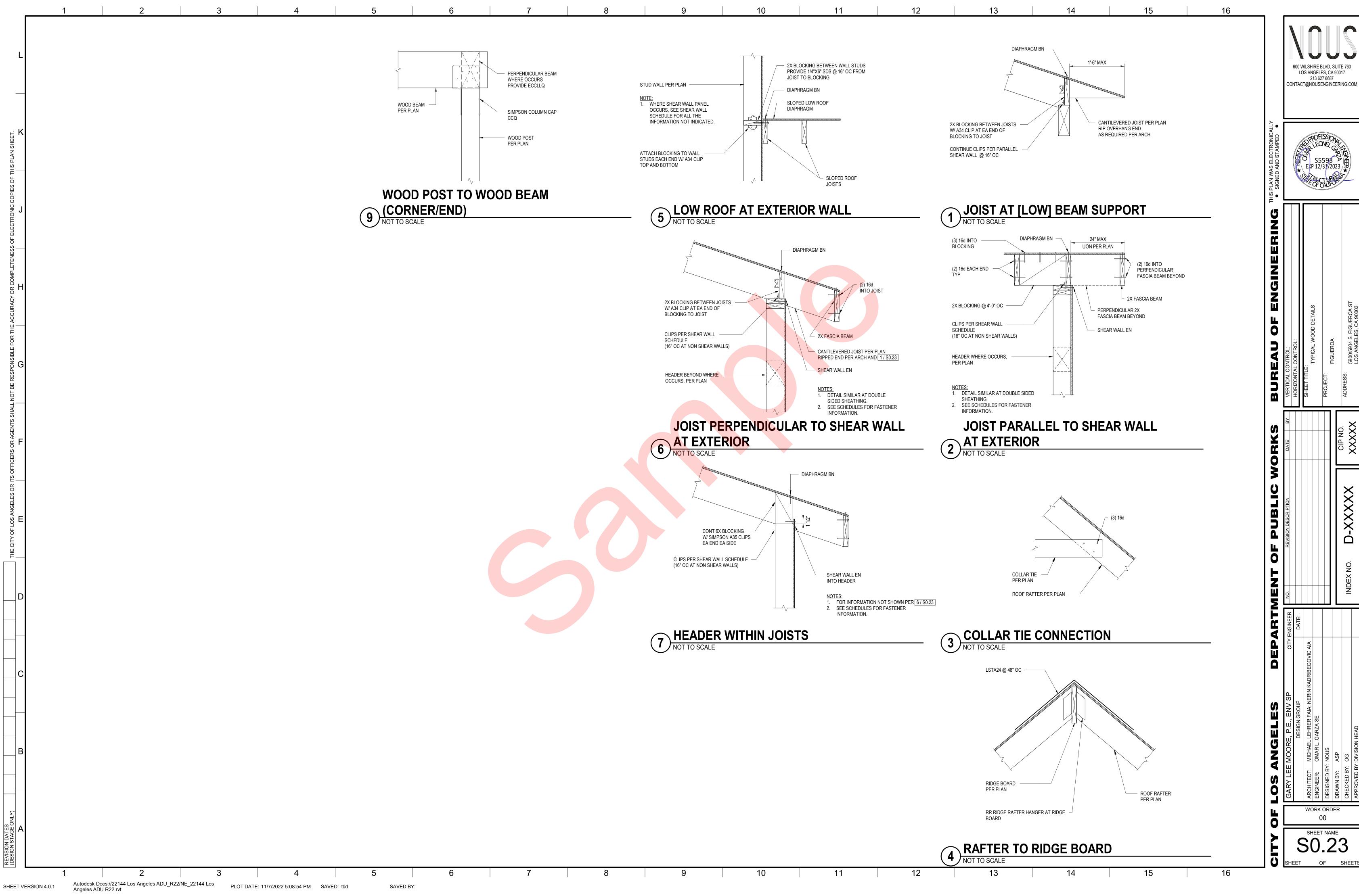


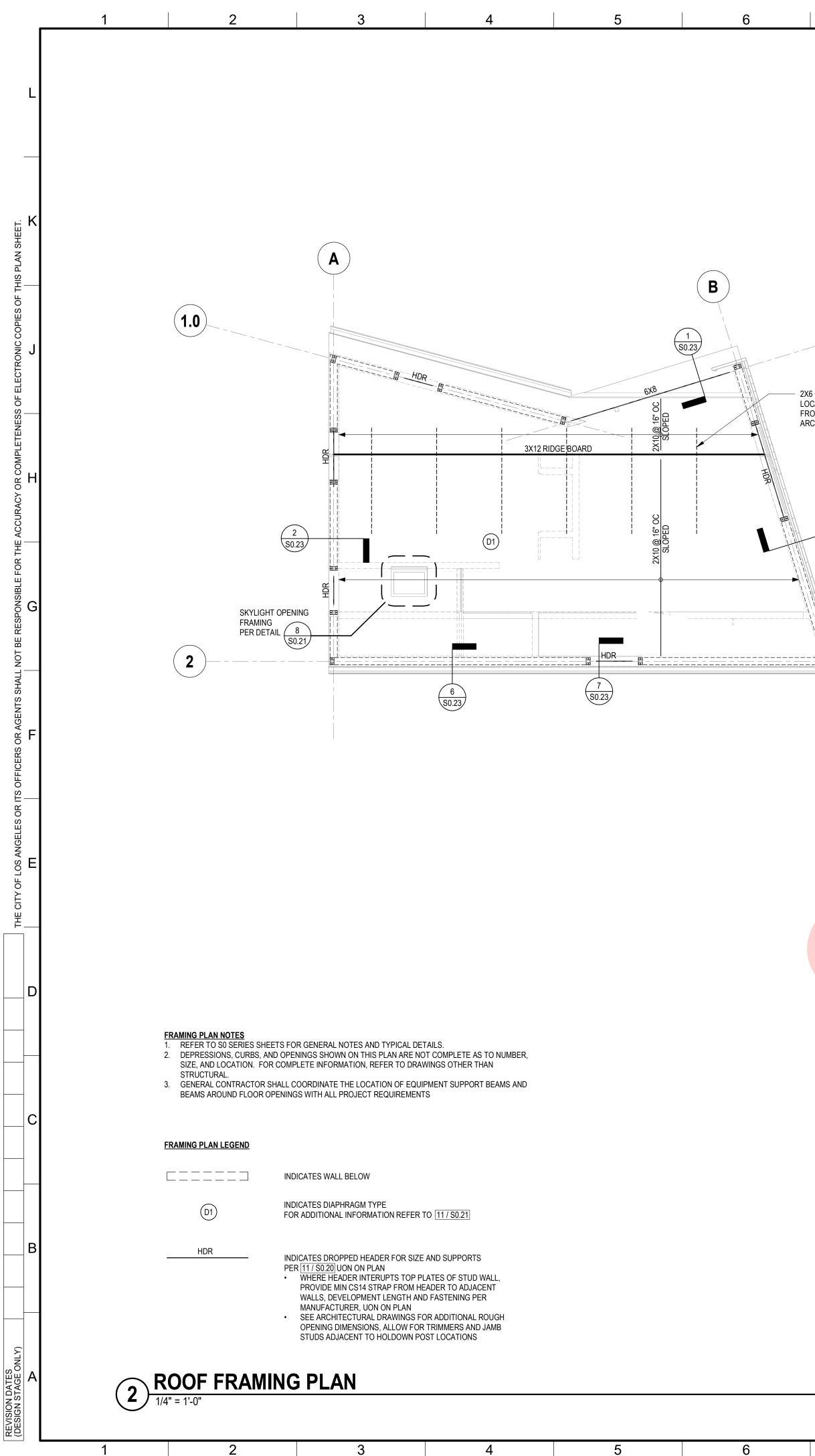
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SHEAR WALL SCHEDULE									
D PANEL			MIN	SILL PLATE ANCHOR TO	1/4"X6" SDS				
PLYWOC	D	NAILING SIZE (BN, EN, FN)	SILL THK	CONCRETE SLAB	OR 5" SDWS	A35 OR LTP4 FRAMING CLIPS	SHEAR CAPACITY (PLF)		
ΈE				SIZE & SPACING	5 50115				
UCTI	ONE SIDE	10d@ 6",6",12"	3X	5/8" DIA X 8" EMBED @ 32"OC	AT 12" OC	AT 12" OC ONE SIDE	340		
UCTI	ONE SIDE	10d@ 4",4",12"	3X	5/8" DIA X 8" EMBED @ 32"OC	AT 8" OC AT 10" OC ONE SIDE		510		
JCT I	ONE SIDE	10d@ 3",3",12"	3X	5/8" DIA X 8" EMBED @ 24"OC	AT 6" OC	AT 8" OC ONE SIDE	665		
JCT I	ONE SIDE	10d@ 2",2",12"	3X	5/8" DIA X 8" EMBED @ 24"OC	AT 4" OC	AT 6" OC ONE SIDE	870		
JCT I	TWO SIDES	10d@ 3",3",12"	3X	5/8" DIA X 8" EMBED @ 12"OC	AT 3" OC	AT 8" OC TWO SIDES	1330		



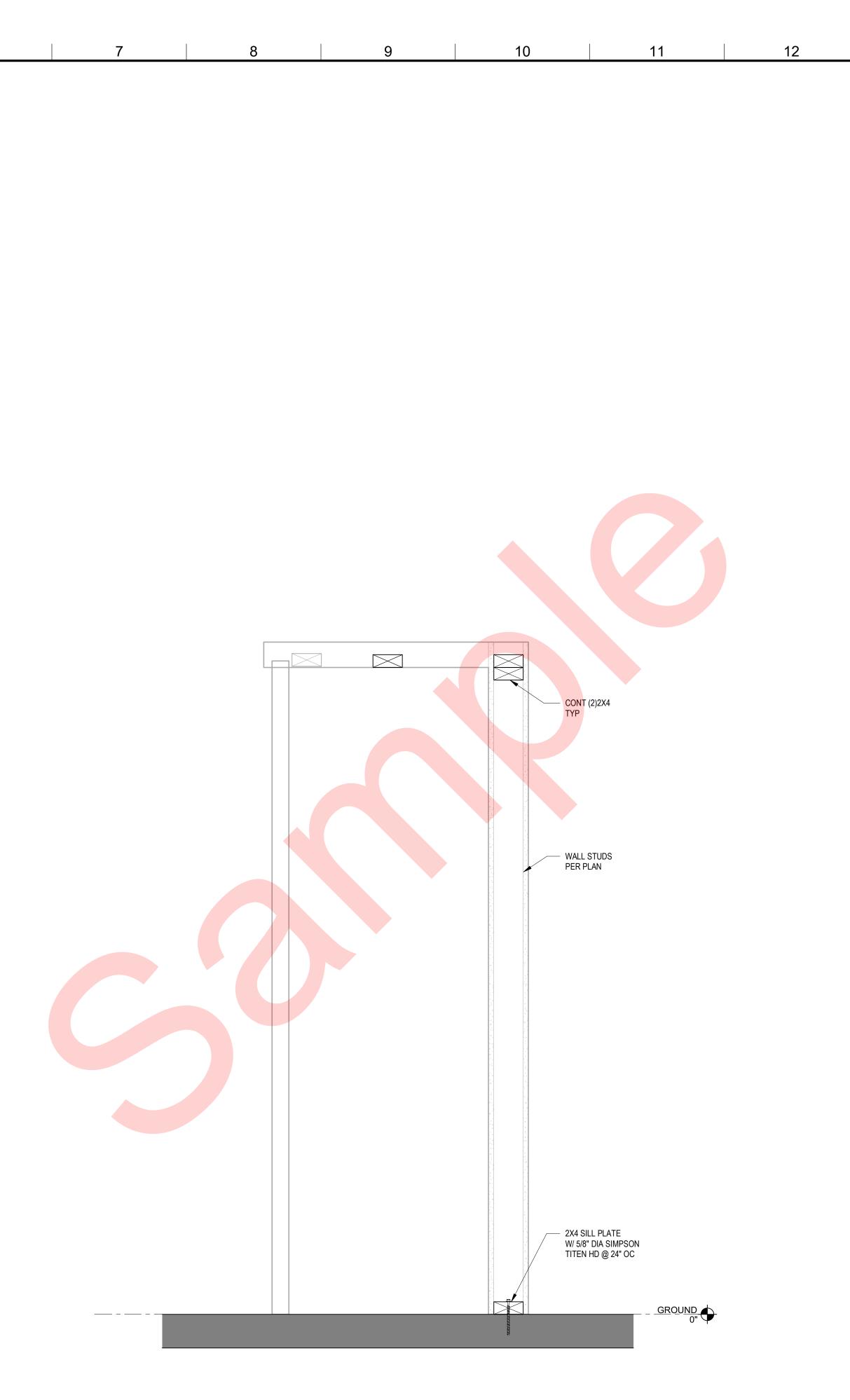




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(1.5)	(2) 2X6 HDU4 (2) 2X6 HDU4 (2) 2X6		Signed
2X6 COLLAR TIES @ 4'-0" OC. ATTACH PER DETAIL 3/S0.23 LOCATION OF COLLAR TIE CAN VARY FROM 1/2 TO 1/3 HEIGHT OF ROOF. ARCH TO FINALIZE.	2 226 HDU4 (2) 226 HDU4 (2) 226 HDU4 (2) 226 HDU4 (2) 226 HDU4 (2) 226 HDU4 (2) 226 HDU4 (2) 226 (2) 2 (2) 2	(2) 2X6 HDU4 4" THK SLAB ON GRADE W #4 @ 16" OC EA WAY CENTERED IN SLAB OVER 1 UMIL VAPOR BARRIER, 2" OF CLEAN SAND, AND COMPACTED BASE (2) 2X6 HDU4 (2) 2X6 (2) 2X6 HDU4 (2)	KS BUREAU OF ENGINEERING 22 BV 22 VERTICAL CONTROL: 22 VERTICAL CONTROL: 22 VERTICAL CONTROL: 22 VERTICAL CONTROL: 23 VICULAL CONTROL: 24 FIGURAL CONTROL: 25 POUNDATION & ROOF FRAMING PLANS 2000 POUNDATION & ROOF FRAMING PLANS 2000 MONC 2000 MONC 2000 S000/5004 S. FIGUEROA ST 2000 S0005004 S. FIGUEROA ST 20005004 S. FIGUEROA ST CONDOA
	CONTINUOUS FOOTING SCHEDULE TYPE MARK WIDTH, W DEPTH, D TOP BARS BOTTOM BARS TIES CF-1 1'-6" 2'-0" (3) #5 (3) #5 #4 @ 12" OC	WOOD SHEAR WALL SCHEDULE WALL ID SHEAR WALL TYPE LENGTH WIDTH SW1.1 B 4'-0" 5 1/2" SW1.2 B 8'-0" 5 1/2" SW1.3 B 4'-0" 5 1/2" SW1.4 B 9'-6" 5 1/2" SW1.5 B 12'-0" 5 1/2" SW1.6 B 16'-0" 5 1/2" SW1.7 B 3'-0" 5 1/2" SW1.8 B 5'-6" 5 1/2" SW1.8 B 5'-6" 5 1/2" SW1.9 B 4'-6" 5 1/2"	TMENT OF PUBLIC WORI Image: State of the stateof the stat
	 FOUNDATION PLAN NOTES 1. TOP OF FOOTING ELEVATION TO BE 1'-0" BELOW TOP OF SLAB OR FINISHED GRADE, UON. 2. REFER TO S0 SERIES SHEETS FOR GENERAL NOTES AND TYPICAL DETAILS. 3. ALL SETTING OUT DIMENSIONS ARE TO BE READ IN CONJUNCTION AND CONFIRMED WITH ARCHITECTURAL DRAWINGS. 4. EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE NEAT LINES REQUIRED BY THE SIZE AND SHAPE OF THE STRUCTURE. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY. 5. CURBS AND DEPRESSIONS ARE SHOWN FOR REFERENCE ONLY. SEE ARCH DWGS FOR LOCATIONS, HEIGHT, AND THICKNESS. 6. SEE ARCH DWGS FOR EDGE OF SLAB LOCATIONS. 7. VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATIONS. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUCH UTILITIES ARE ENCOUNTERED. 8. FOR DRAINAGE DETAILS, SUMPS, PITS, DAMP PROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS, FITC., SEE DRAWINGS OTHER THAN STRUCTURAL. 9. SLAB CONSTRUCTION AND CONTROL JOINT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT PRIOR TO PLACING ANY CONCRETE. 10. PROVIDE A 6° CURB AT EXTERIOR TIMBER WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS. 	DUNDATION PLAN LEGEND INDICATES STUD/BEARING WALL PER 11/50.20 THICKNESS AND LOCATION PER ARCH INDICATES WALL PER ARCH INDICATES WALL PER ARCH INDICATES WOOD SHEAR WALL ID, AT SIDE TO BE NAILED REFER TO "SHEAR WALL CONSTRUCTION PER "SHEAR WALL TYPE" REFER TO "6/50.21 INDICATES LOCATION OF POST AND HOLDOWN, POST SIZE PER PLAN INDICATES TRIMMER AT OPENING WHERE OCCURS SW1.1 SW1.1 SW1.1 INDICATES TRIMMER AT OPENING WHERE OCCURS INDICATES WOOD SHEAR WALL EXTENTS, ABOYE ENGTH SHOWN IN SCHEDULE INDICATES APPROXIMATE LENGTH	FLOS ANGELES DEPARI ALDOS ANGELES DEPARI ALCIAL ELERER FAN: NENN KADRIBEGOVIC AIA DATE: ARCHITECT: MICHAEL LEHRER FAN; NENN KADRIBEGOVIC AIA DATE: ARON BY: ARD DATE: DATE: ARON BY: ARD DATE: DATE: ARON BY: ARD DATE: DATE: DATE:
	1) FOUNDATION PLAN	OF SHEAR WALL, ACTUAL LENGTH MAY DEVIATE +/- 6".	
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CLOSET SECTION									
1 1/2" = 1'-(0"								
7	8	9	10	11	12				

