

THER DISSII SPEC	EIN ARE THE PROP MINATED TO OTHEF IFIED PROJECT FOF	THE INCLUDED DESI ERTY OF <b>o.Ibm</b> AND S SOR USED IN CONN WHICH THEY HAVE IRITTEN AUTHORIZA	SHALL NOT BE RI ECTION WITH AN BEEN PREPARE	EPRODUCED, DISCLO	OSED OR AN THE			
02 01 NO	08/21/23 11/27/19 DATE		Submission SON FOR	ISSUE	LB LB CHK			
ARCH				•				
972		D Road, Palo A Ib@leonard	Alto, CA 943					
CONS	ULTANT							
CONS	ULTANT							
	atricia D	ziuk						
KEY P	'LAN							
(	T			I				
STAM	P							
CENSED ARCHING LEONARDO I BUENDIA MARTIN DEL CAMPO NO. C 34431 ★ NO. C 34431 ★ REN.: FROM CF CALIFOR								
44	finity Re 03 Alta	esidence Mira Dr CA 919	ive					
TITLE	over							
	PROJECT DATE DZK-2018-01 11/27/2019 NUMBER SCALE A-000 1" = 1'-0"							

- THESE GENERAL NOTES SHALL APPLY TO ALL WORK AND ALL DRAWINGS AND SPECIFICATIONS IN THIS SET AND SHALL EXTEND TO ANY CHANGES OR ADDITIONS AGREED TO DURING THE COURSE OF WORK
- 2. ALL WORK PERFORMED SHALL CONFORM TO THE FOLLOWING CODES AND ASSOCIATED COUNTY OF SAN DIEGO AMMENDMENTS WHETHER OR NOT INDICATED ON THE DRAWINGS:
  - A. 2016 California Residential Code (CRC) and/or 2016 California Building Code (CBC) as applicable 2016 California Green Building Standards Code (CalGreen)
  - C. 2016 California Electrical Code (CEC)
  - 2016 California Mechanical Code (CMC) 2016 California Plumbing Code (CPC)
  - 2016 California Fire Code (CFC) G. 2016 California Building Energy Efficiency Standards (CBEES)

ARCHITECT FOR CLARIFICATION BEFORE COMMENCEMENTOF WORK.

- CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS.
- 4. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL INSPECT AND FAMILIARIZE THEMSELVES WITH THE SITE AND THE PROPOSED PROJECT AND VERIFY ALL INFORMATION AND DIMENSIONS PRIOR TO COMMENCING WORK AND NOTIFY THE ARCHITECT OF ANY DISCREPANCY.
- ALL DIMENSIONS TO GRIDLINES ARE TO CENTERLINE OF STRUCTURAL ELEMENT U.N.O., ALL OTHER DIMENSIONS ARE TO FINISH FACE U.N.O.
- DO NOT USE SCALED DIMENSIONS, USE WRITTEN DIMENSIONS OR GRADES. WHERE NO DIMENSION OR GRADE IS PROVIDED, VERIFY WITH
- NOT ALL CONDITIONS MAY BE SHOWN IN DETAILS. CONTRACTOR SHALL PROVIDE INSTALLATIONS WHICH ARE IN CONFORMANCE WITH TYPICAL DETAILS FOR ATPYICAL CONDITIONS. TYPICAL DETAILS SHALL BE CONSTRUED TO PERTAIN TO ALL SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- ANY ERRORS, OMISSIONS OR DISCREPANCIES IN PLANS, SPECIFICATIONS OR JOB CONDITIONS, AND ANY CONFLICTS IN THE ABOVE WITH THE GOVERNING BUILDING CODE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMENCEMENT OF WORK.
- BEFORE STARTING EACH PORTION OF THE WORK, THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE VARIOUS DRAWINGS. SPECIFICATIONS AND PRODUCT DATA FOR THAT PORTION OF THE WORK. CONTRACTOR SHALL CHECK DRAWING DOCUMENTS AND DIMENSIONS AND VERIFY DIMENSIONS IN FIELD TO CONFIRM THAT THE WORK IS BUILDABLE AS SHOWN. COORDINATE ALL ASPECTS OF THE WORK WORK WITH ALL RELATED TRADES. NOTIFY THE ARCHITECT IN WRITING PRIOR TO BEGINNING WORK OF ANY DISCREPANCIES, CONFLICTS OR CHANGES REQUIRED.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL 10. BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION OF PORTIONS OF WORK ALREADY PERFORMED TO DETERMINE THAT SUCH PORTIONS ARE IN PROPER CONDITION TO RECEIVE SUBSEQUENT WORK.
- 12. SPECIAL INSPECTIONS SHALL BE PERFORMED BY A SPECIAL INSPECTOR PER CBC SECTIONS 1704 AND 1705. THE SPECIAL INSPECTOR SHALL BE RETAINED BY THE OWNER AND NOT BY THE CONTRACTOR.
- 13. CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING WORK. SPECIAL CARE SHALL BE TAKEN TO PROTECT UTILITIES THAT ARE TO REMAIN IN SERVICE DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL JOB SITE SAFETY PRECAUTIONS AND PROGRAMS, IMPLEMENT, ERECT AND 14. MAINTAIN REASONABLE AND REQUIRED SAFEGUARDS FOR SAFETY AND PROTECTION.
- 15. ALL WORK TO BE PERFORMED TO CODE BY A LICENSED CONTRACTOR PERFORMING THE WORK IN THEIR RESPECTIVE TRADE ONLY. REFER TO SPECIFICATIONS FOR ADDITIONAL QUALIFICATIONS. THE CONTRACTOR SHALL NOT PERMIT EMPLOYMENT OF UNFIT PERSONS OR PERSONS NOT PROPERLY SKILLED IN TASKS ASSIGNED TO THEM.
- 16. ALL WORKMANSHIP SHALL BE PERFORMED NEATLY IN ACCORDANCE WITH ACCEPTED BEST PRACTICES OF THE TRADE: INDUSTRY STANDARDS OF CARE AND STANDARD OF THE INDUSTRY INVOLVED AND SHALL BE STRAIGHT. PLUMB AND/OR TRUE TO LINE.
- 17. GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL NEATLY PATCH, REPAIR AND / OR REPLACE ALL AREAS OR ITEMS DAMAGED DURING CONSTRUCTION.
- 18. MATERIALS PRODUCTS OR EQUIPMENT SHALL BE NEW, UNUSED AND OF THE HIGHEST QUALITY UNLESS OTHERWISE NOTED. REPLACE ALL DEFECTIVE MATERIALS.
- 19. MATERIALS, PRODUCTS OR EQUPMENT SHALL BE STORED IN A MANNER THAT PREVENTS DAMAGE, THEFT, DISTORTION AND CONTACT WITH MOISTURE OR EXTERIOR EXPOSURE. FOR FINISH MATERIALS, PREVENT SCRATCHES, DINGS, NICKS, DENTS, CHIPS. WHERE DAMAGE CAN NOT BE RESTORED TO ORIGINAL FINISH CONDITION, CONTRACTOR TO REPLACE AT NO COST TO THE OWNER. HE ARCHITECT SHALL HAVE FINAL SAY ON THE QUALITY OF THE REPAIR. IF THE REPAIR DOES NOT MEET THE QUALITY OF THE ADJACENT SURFACE, THE COMPONENT SHALL BE REPLACED AT NO COST TO THE OWNER WITH A NEW COMPONENT OF THE SAME QUALITY AND SPECIFICATION TO MATCH.
- 20. MANUFACTURED MATERIALS, PRODUCTS AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS, UNLESS A HIGHER QUALITY / METHOD OF INSTALLATION HAS BEEN INDICATIONED WHICH DOES NOT AFFECT PRODUCT WARRANTY, IL LISTING, OR PERFORMANCE.
- 21. THERE SHALL BE NO SUBSTITUTION OF MATERIALS WHERE A MANUFACTURER IS SPECIFIED, UNLESS APPROVED BY THE ARCHITECT. WHERE THE TERM "OR EQUAL", OR "OR ARCHITECT APPROVED EQUAL", THE ARCHITECT AND ITS CONSULTANTS SHALL DETERMINE IF THE SUBMITTED MATERIAL / PRODUCT IS "EQUAL". CONTRACTOR TO SUBMIT INFORMATION FOR BOTH THE SPECIFIED PRODUCT AND PROPOSED SUBSTITUTION WITH A LINE BY LINE COMPARISON IF REQUIRED BY THE ARCHITECT
- 22. CONTRACTOR TO REVIEW AND COORDINATE ALL SUBSTRATE REQURIEMENTS OF FINISH COMPONENTS AND CONFIRM COMPATIBILITY PRIOR TO FINISH INSTALL. ALL SUBSTRATES TO BE PREPARED PER SPECIFICATIONS OR MANUFACTURER REQUIREMENTS.
- 23. CONTRACTOR AND ALL ITS SUBCONTRACTORS SHALL ADHERE TO CITY STANDARD BEST MANAGEMENT PRACTICES TO ENSURE PROPER MEASURES ARE TAKEN DURING THE DEMOLITION, CONSTRUCTION AND DISPOSAL OF ALL CONSTRUCTION MATERIAL, EQUIPMENT AND FIXTURES EXTRACTED FROM THE SITE.
- 24. ALL MECHANICAL AND ELECTRICAL EQUIPMENT, LIGHTS OR DEVICES THAT ARE REQUIRED TO BE UL TESTED OR APPROVED SHALL HAVE A U LISTING LABEL. THE LABEL SHALL NOT BE REMOVED OR PAINTED OVER OR OTHERWISE CONCEALED. ANY EQUIPMENT NOT LISTED WILL BE REQUIRED TO BE FIELD TESTED AND CERTIFIED BY AN APPROVED TESTING AGENCY AND THE AHJ.
- 25. AT COMPLETION OF JOB. SITE AND INTERIORS WILL BE SWEPT CLEAN AND ALL SURFACES INCLUDING WINDOWS SHALL BE CLEANED.
- 26. EXTERIOR STUCCO AND INTERIOR WALL AND CEILING FINISHES SHALL CONFORM TO CHAPTER 47 U.B.C.
- 27. INSPECTION SHALL BE COMPLETED FOR ALL IN PLACE INTERIOR AND EXTERIOR LATH OR WALLBOARD PRIOR TO PLASTERING AND TAPING AND FINISHING OF FASTENERS.
- 28. PROVIDE AN APPROVED SHOWER PAN AND DRAIN. HOT MOP AFTER PLASTERING. EXTEND SHOWER PAN & TUB WATERPROOF MEMBRANE 2 FEET UP WALLS AND 2 FEET BEYOND SHOWER CURBS.
- 29. ALL WALL & FLOOR TILE SHALL BE SET OVER TAPED & SEALED 1/2" CEMENT BOARD OR APPROVED EQUAL.
- 30. ALL DOORS AND WINDOWS SHALL BE FULLY WEATHERSTRIPPED.
- 31. OPENINGS SHALL BE CAULKED AND SEALED; I.E. AROUND JOINTS IN WINDOWS, WALL SOLE PLATES, OPENINGS FOR UTILITY PIPING AND WIRING, ETC.
- 32. MANUFACTURED DOORS AND WINDOWS SHALL MEET APPLICABLE ANSI, AAMA OR NWMA STANDARDS AND BE SO LABELED.
- 33. ALL DUCTWORK MUST COMPLY WITH CHAPTER 10. UMC.
- 34. PERMANENT VACUUM BREAKERS SHALL BE PROVIDED ON ALL HOSE BIBBS.
- 35. NEW BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL BE A MINIMUM OF 4" INCHES HIGH WITH A MINIMUM STROKE OF .5 INCHES. WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING CANNOT BE VIEWED FROM THE PUBLIC WAY, A MONUMENT, POLE OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE." CFC SECTION 505
- 36. KITCHEN APPLIANCES AND TOILET FIXTURES SUPPLIED BY OWNER & INSTALLED BY CONTRACTOR.
- 37. ALL WALL AND CEILING FINISH TO COMPLY WITH CBC CHAPTER 8, TABLE 8-B.
- 38. TEMPERED GLASS SHALL BE PERMANENTLY IDENTIFIED AND VISIBLE WHEN THE UNIT IS GLAZED.
- 39. ARCHITECT RESERVES THE RIGHT TO DIRECT REMOVAL AND REINSTALLATION OF WORK WHICH DOES NOT, IN THE OPINION OF THE ARCHITECT, MAINTAIN STANDARDS AND WORKMANSHIP OF A CRAFT.
- 40. CARE IS REQUIRED TO PRESERVE EXISTING VEGETATION. VEGETATION MAY NOT BE REMOVED OR DESTROYED WITHOUT EXPRESSED WRITTEN CONSENT AND INSTRUCTIONS OF THE OWNER OR ARCHITECT.
- 41. CONTRACTOR SHALL USE CAUTION WHEN TRENCHING ACROSS SITE NOT TO DAMAGE SIGNIFICANT VEGETATION AND ROOTS. CONTRACTOR SHALL LAYOUT PROPOSED ROUTING OF UNDERGROUND UTILITIES AND BUILDING FOOTPRINT PRIOR TO TRENCHING FOR OWNER APPROVAL. THESE PLANS AND ALL WORK SHALL COMPLY WITH THE CALIFORNIA BUILDING STANDARDS CODE FOUND IN STATE OF CALIFORNIA TITLE 24 CCR

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ABBREVIATIONS
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AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
APROX	APROXIMATE
BOG BRK	BOTTOM OF GLUELAM
CFL	CEILING FINISH LEVEL
CONT	CONTINUOUS
COL	COLUMN
CONC	CONCRETE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CPT	CARPET
CYD	CUBIC YARDS
DEMO	DEMOLISH
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG'S	DRAWINGS
EA	EACH

EXISTING

EQUIPMENT

EXTERIOR

FORCED AIR UNIT

FINISH FLOOR LEVEL

FLOOR DRAIN

GYPSUM BOARD

WATER HEATER

INFORMATION

INSULATION

MISCELLANEOUS

NOT IN CONTRACT

NOT TO SCALE

INTERIOR

MINIMUM

METAL

NEW

NOMINAL

PAINTED

ROOF DRAIN

RAIN WATER LEADER

REQUIRED

SQUARE FEET

STAINLESS STEEL

TOP OF CURB

TOP OF GLUELAM

TOP OF PARAPET

TO BE DETERMINED

UNLESS OTHERWISE NOTED

TYPICAL

VERTICAL

WOOD

WINDOW

WATER CLOSET

ROOM

STRUCT'L STRUCTURAL

PLYWD PLYWOOD

GALVANIZED

GAUGE

EQUAL

(E)

EQ

EXT

FAU

FD

FFL

GYP BD

GALV

GA

HW

INFO

INT

MIN

MISC

MTL

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INSUL

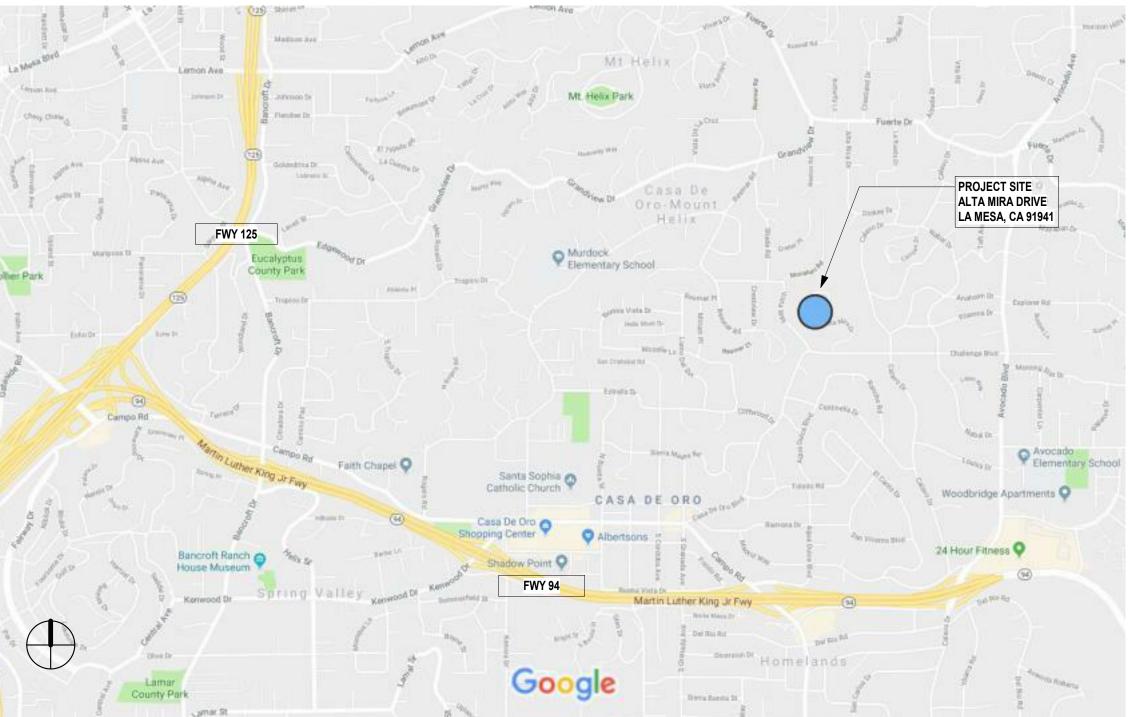
EQUIP

SYMBOLS

0	—STRUCTURAL GRID LINE	Law
ELEV	ELEVATION BENCHMARK	r
ELEV	SPOT ELEVATION	Colliner F
1 A101 SIM	SECTION	Garage Revenue
A101 SIM	DETAIL CALLOUT	the second
1     SIM       A101     Image: Constraint of the second	DETAIL CALLOUT	e ee
1 A101 1 Ref	ELEVATIONS	PROJEC
<u>(1i)</u>	WINDOW NUMBER	
(101)	DOOR NUMBER	ASSES
< <u>1i</u> >	WALL TYPE	

		SHEET IND	EX								SHEE	T INDEX							
	SHEET NUMBER	SHEET NAME	11/27/19 - Plan Check Submission	8/21/20 - Plan Check Response #01	03/05/21 - Plan Check Response #02	03/22/22 - Plan Check Response #03	06/01/22 - Plan Check Response #04	08/21/23 - Bulletin 01	6/23 - Plan Che	SHEFT NIIMBER		11/27/19 - Plan Check Submission	8/21/20 - Plan Check Response #01	03/05/21 - Plan Check Response #02	03/22/22 - Plan Check Response #03	06/01/22 - Plan Check Response #04	08/21/23 - Bulletin 01	12/06/23 - Plan Check Response #05	04/12/24 - Bulletin 02
	C1 O D	Chrushund Notos	•	•		•	•	•		A-000	Cover	•	•	•	•	•	•	•	•
	S1.0-R S1.1-R	Structural Notes	•	•	•		•	•	•	A-001-R	General Information	•	•	•	•	•	•	•	•
		Structural Notes	•	•	•	•	•	•	•	A-003-R	Plot - BMP Plan	•	•	•	•	•	•	•	•
66	S1.2-R	Typical Foundation Details	•	•	•	•	•	-	<b>├</b> ───┤	A-004 🛆	2016 Cal Green Mandatory Measures	•	•	•	•	•	•	•	•
	S1.3-R	Typical Masonry Details						•	•	A-004 A-005	2016 Cal Green Mandatory Measures	•	•	•	•	•	•	•	•
	S1.4-R S2.1-R	Typical Framing Details Pool Terrace Foundation Plan	•				•	•	•	A-007	Min. Const. Specifications	•	•	•	•	•	•	•	•
				•	•	•		•	•	A-010	Exterior Views	•	•	•	•	•	•	•	•
	S2.2-R	Lower Level Partial Foundation / Framing Plan	•	•	•	•	•	•	•	A-020	Energy Calculations (1 of 2)	•	•	•	•	•	•	•	•
	S2.3-R	Street Level Framing Plan	•	•	•	•	•	•	•	A-021	Energy Calculations (2 of 2)	•	•	•	•	•	•	•	•
	S2.4-R	Roof Framing Plan	•	•	•	•	•	•	•	A-100-R	Site Plan	•	•	•	•	•	•	•	•
	S6.0-R	Foundation Details	•	•	•	•	•	•	•	A-201-R	Street Level Plan	•	•	•	•	•	•	•	•
<u>06</u>	S6.1-R	Foundation Details	•	•	•	•	•	•	•	A-202-R	Lower Level Plan	•	•	•	•	•	•	•	•
<u>/</u>	<del>\$7.0</del>	Shear Wall Details	•	•	Ŷ	•	•	N/A	N/A	A-203-R	Pool Level Plan	•	•	•	•	•	•	•	•
	<del>57.1</del>	Masonry Details	•	•	•	•	•	N/A	N/A	A-204	Roof Plan	•	•	•	•	•	•	•	•
	S7.2-R	Framing Details	•	•	•	•	•	•	•	A-301	Street Level RCP	•	•	•	•	•	•	•	•
	57.3-R 04	Framing Details				•	•	•	•	A-302	Lower Level RCP	•	•	•	•	•	•	•	•
	<u>/</u>									A-303	Pool Level RCP	•	•	•	•	•	•	•	•
										A-401-R	Elevations	•	•	•	•	•	•	•	•
										A-402-R	Elevations	•	•	•	•	•	•	•	•
										A-501-R	Building Sections	•	•	•	•	•	•	•	•
										A-502-R	Building Sections	•	•	•	•	•	•	•	•
										A-503-R	Building Sections	•	•	•	•	•	•	•	•
										A-550-R	Wall Sections	•	•	•	•	•	•	•	•
									$\wedge$	A-553-R	Wall Sections	•	•	•	•	•	•	•	•
									_07	-<	Wall Sections								•
										A-560-R	Roof, Floor & Wall Assemblies	•	•	•	•	•	•	•	•
										A-600-R	Schedules	•	•	•	•	•	•	•	•
										A-700-R	Details		•	•	•	•	•	•	•
									$\wedge$	A-701/072	Details		•	•	•	•	•	•	•
									<u>⁄06</u>		Details						•	•	•
										A-703-R	Door & Window Floor Plan Details		•	•	•	•	•	•	•
									^	A-704-R	Details Details		•	•	•	•	•	•	•
									<u>⁄06</u>	A-705-R	Details						•	•	•
										<sup>△</sup> A-706-R A-707-R	Details Alternative Glass Rail Details						•	•	•
										A-708-R							•	•	•
									<u>6</u> 7		Details 03						•	•	•
									<u>/</u>	A-800	Glass Balustrade ESR-3269 Report			•	•	•	•	•	•
									<u>/04</u>		Glass Balustrade ESR-3269 Report Glass Balustrade ESR-3269 Report (Cont.)			•	•	•	•	•	•
									/04	A-800.1	Wood Deck Product Information			•	•	•	•	•	•
										/	Window Product Information			•	•	•	•	•	•
									$\wedge$	A-802-K /0 A-802.1	Window Product Information Window Product Information (Cont.)			-	•	•	N/A	-N/A	
									04	A-802.1 A-803-R	Lightweight Insulating Concrete (LWIC)			•	•	•	•	•	•
									^	A 904 D	Guardrail Detail & Scope / Vehicular Waterproofing Membrane			-	•	•	•	•	•
									<u>⁄04</u>	P-201	Street Level Power Plan	•	•	•	•	•	•	•	•
										P-201 P-202-R	Lower Level Power Plan	•	•	•	•	•	•	•	•
										P-202-K	Pool Level Power Plan	•	•	•	•	•	•	•	•
										P-203	Hydronic System 02		•	•	•	•	•	•	•
												I	-	-	-			-	

# VICINITY MAP



### ECT INFORMATION

### ADDRESS

ALTA MIRA DR.

LEGAL DESCRIPTION

ESSORS PARCEL NUMBER (APN) LOT SIZE ZONING

USE

SETBACKS

HEIGHT LIMITS ALLOWABLE LOT COVERAGE CONSTRUCTION TYPE SPRINKLERED YES

LA MESA CA 91941	005
SUBD: LOT #46 MT HELIX CALAVO GARDENS UNIT #6 PM03470 PAR 1	
501-041-22-00	
33,976 SQ FT	PROJECT SCOPI
SEMI RURAL RESIDENTIAL SR-0.5 (1DU / 0.5AC)	FROJECT SCOFE
SINGLE FAMILY RESIDENTIAL	
INTERIOR SIDE YARD: 10 FEET FRONT: 50 FEET REAR: 40 FEET	
35' / 2 STORIES	
N/A	
TYPE V	

2016 CALIFORNIA BUILDING CODE Part 2 of Title 24 2016 CALIFORNIA ELECTRICAL CODE Part 3 of Title 24 2016 CALIFORNIA MECHANICAL CODE Part 4 of Title 24 2016 CALIFORNIA PLUMBING CODE Part 5 of Title 24 2016 CALIFORNIA ENERGY CODE Part 6 of Title 24

CODE

2016 CALIFORNIA FIRE CODE Part 8 of Title 24 2016 CALIFORNIA REFERENCED STANDARDS CODE UNIFORM ADMINISTRATIVE CODE SECTION 302 2,857 SF SINGLE FAMILY RESIDENCE CONSISTING OF 3

BEDROOMS, 4.1 BATHROOMS INCLUDING FAMILY ROOM, MULTIPURPOSE ROOMS AND 2 VEHICLE CARPORT. INCLUDING SITE RETAINING WALLS FLANKING THE CARPORT ACCESS DRIVE

THERI DISSIN SPECI	EIN ARE THE PROPE MINATED TO OTHER FIED PROJECT FOR	RTY OF <b>o.Ibm</b> AND SH S OR USED IN CONNE	IALL NOT BE REPRODU CTION WITH ANY WORI EEN PREPARED, IN WH	COTHER THAN THE			
07	04/19/24	Bulletin_02		LB			
06 05	08/21/23 06/01/22	Bulletin_01 City Plan Che		LB LB			
04 03	03/30/22	City Plan Che	eck #02	LB LB			
02 01	08/21/20	Clty Plan Che Plan Check S	Submission	LB LB			
NO	DATE		SON FOR ISSU	E CHK			
972 619		D Road, Palo Al Ib@leonardo					
CLIEN							
Pa	atricia D	ZIUK					
KEY P							
STAMI	STAMP						
PROJE		OTAREN.:	CALIFOR CALIFOR				
44	03 Alta	sidence Mira Dri CA 9194					
	eneral Ir	nformatio	on				
PROJECT DATE DATE 11/27/2019 NUMBER SCALE AS indicated							

LEGEND					
FOOTPRINT OF PROPOSED CONCRETE SLAB AND STAIR ON GRADE	<u> </u>	" AN ELECTRON	ICALLY SIGNED AND REGISTERE		
FOOTPRINT OF PROPOSED BUILDING STRUCTURE		INSPECTOR DUP	BY THE INSTALLING CONTRACT( RING CONSTRUCTION AT THE BL IIQUE 21-DIGIT REGISTRATION N	IILDING SITE. A REGISTERE	ED CF2R
FOOTPRINT OF PROPOSED CONCRETE DRIVEWAY		MATCH THE REC	E BOTTOM OF EACH PAGE. THE GISTRATION NUMBER OF THE AS ILL NOT BE ISSUED UNTIL FORMS	SOCIATED CF1R. CERTIFIC	ATE OF
FOOTPRINT OF PROPOSED STONE SUN DECK		"AN ELECTRONI	CALLY SIGNED AND REGISTERE	CERTIFICATE(S) OF FIELD	
POOL / (E) DRIVEWAY		SIGNED AND RE	ND DIAGNOSTIC TESTING (CF3R GISTERED CERTIFICATE(S) OF F SHALL BE POSTED AT THE BUIL	IELD VERIFICATION AND DI	AGNOSTIC
OPEN JOINT WOOD DECK		LOCATED AT TH	STERED CF3R WILL HAVE A UNIC E BOTTOM OF EACH PAGE. THE GISTRATION NUMBER OF THE AS	FIRST 20 DIGITS OF THE NU	JMBER WILL
			ILL NOT BE ISSUED UNTIL CF3R I		
STREET LEVEL 445 SF LOWER LEVEL 1,622 SF POOL LEVEL 790 SF					
TOTAL DEVELOPMENT 2,857 SF				/	
NOTES:					õ
- PROPOSED LANDCAPE NOT TO EXCEED 500 SF - ALL DRAINAGE TO BE ROUTED TO NEW AND EXISTI	ING LANDSCAPING				157.12
- PROPOSED TOTAL LAND DISTURBANCE = 6,970 SF					R = 125'
- SPECIAL INSPECTION REQUIRED. SEE SPECIAL INS	SPECTION FORM ON				
- THE INSPECTOR WILL CHECK FOR EXPANSIVE SOIL REQUIREMENTS AT FIRST FOUNDATION INSPECTION					72d 01' 00'
- PROPERTY IS CONNECTED TO ELECTRICAL GRID					A = 72d (
- PROPERTY IS SERVED BY NATURAL GAS					
- SPECIAL FEATURES FOUND ON FORM CF1R: - COOL ROOF					POOL &
- WINDOW OVERHANGS AND / OR FINS - EXPOSED SLAB FLOOR IN CONDITIONED ZC - SOLAR WATER HEATING CREDIT, SINGLE FA FEATURE AND ADDITIONAL DOCUMENTATION	AMILY BUILDING SPECIAL	L			
- SUMMARY OF ENERGY EFFICICENCY MEASURES R VERIFICATION:	EQUIRING "HERS"				
<ul> <li>DUCT SEALING</li> <li>COOLING SYSTEM REFRIGERANT CHARGE</li> </ul>					
<ul> <li>COOLING SYSTEM MINIMUM AIRFLOW</li> <li>COOLING SYSTEM FAN EFFICACY</li> </ul>					
<ul> <li>COOLING SYSTEM "SEER" AND / OR "EER" AB</li> <li>INDOOR AIR QUALITY (IAQ) MECHANICAL VEN</li> <li>BUILDING ENVELOPE AIR LEAKEAGE</li> </ul>				LTAMIR	
<ul><li>☑ QUALITY INSULATION INSTALLATION (QII)</li><li>☑ OTHER:</li></ul>				ALTAMIRA DRIVE	
- PROPERLY COMPLETED AND SIGNED CERTIFICATE FORMS) SHALL BE PROVIDED TO INSPECTOR IN THE	FIELD. FOR PROJECTS				
REQUIRING "HERS" VERIFICATION, THE CF2R FORMS CALIFORNIA-APPROVED HERS PROVIDER DATA REG - "HERS" VERIFICATION REQUIRED. PROPERLY COMP	GISTRY"				
VERIFICATION (CF3R FORMS) SHALL BE PROVIDED T CF3R FORMS MUST BE REGISTERED WITH A CALIFO PROVIDER DATA REGISTRY"	TO INSPECTOR IN THE FI	ELD.			CL
STORM WATER QUALITY NOTES + CONSTRUCTION E	BMP'S:				<b>CL</b>
THIS PROJECT SHALL COMPLY WITH ALL CURRENT F OF THE STATE PERMIT: CALIFORNIA REGIONAL WAT					
CONTROL BOARD (SDRWQCB), SAN DIEGO MUNICIP/ PERMIT, THE COUNTY OF SAN DIEGO LAND DEVELOI THE STORM WATER STANDARDS MANUAL NOTES BE	PMENT CODE AND				
REPRESENT KEY MINIMUM REQUIREMENTS FOR CO BMP'S					
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ( SILT AND MUD ON ADJACENT STREETS, DUE TO COM					
VEHICLES OR AN OTHER CONSTRUCTION ACTIVITY, EACH WORK DAY, OR AFTER A STORM EVENT THAT IN INSTALLED CONSTRUCTION BMP'S WHICH MAY CO	CAUSES BREECH				
STORM WATER QUALITY WITHIN ANY STREETS. A ST CONSTRUCTION EXIT MAY BE REQUIRED TO PREVEN	Tabilized Nt			IMPERVI	IOUS AREA
CONSTRUCTION VEHICLES OR EQUIPMENT FROM TF SILT ONTO THE STREET.	RACKING MUD OR	Site ID	Impervious Item	Dimensions	New Area
2. ALL STOCK PILES OF SOIL AND/OR BUILDING MATE INTENDED TO BE LEFT FOR A PERIOD GREATER THA	AT SEVEN	01 02	Driveway Site Stair	21'-7" x 31'-10" PER PLAN	607 SF 0 115 SF 0 153 SF 0
CALENDAR DAYS ARE TO BE COVERED. ALL REMOV DEVICES SHALL BE IN PLACE AT THE END OF EACH V WHEN FIVE DAY RAIN PROBABILITY FORECAST EXCE	WORKING DAY	03 04 05	Entrance Plaza Main House Upper Level Pool House	PER PLAN 16'-3" x 52'-9" 40'-4" x 24'-10"	153 SF ( 854 SF ( 668 SF (
3. A CONCRETE WASHOUT SHALL BE PROVIDED ON WHICH PROPOSE THE CONSTRUCTION OF ANY CON	ALL PROJECTS	05 07 08	Existing Driveway Main House Roof Terrace	40-4" X 24-10"       PER PLAN       PER PLAN	0 5F
IMPROVEMENTS THAT ARE TO BE POURED IN PLACE	E ON SITE.	09 TOTAL IMP	Pool	12'-4" x 49'-5"	608 SF ( 4,362 SF
4. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER AFTER EAC PRODUCING RAINFALL OR AFTER ANY MATERIAL BR	CH RUN OFF				VIOUS AREA
EFFECTIVENESS. 5. ALL SLOPES THAT ARE CREATED OR DISTURBED I					New or Replaced
5. ALL SLOPES THAT ARE CREATED OR DISTURBED A CONSTRUCTION ACTIVITY MUST BE PROTECTED AG AND SEDIMENT TRANSPORT AT ALL TIMES.		Site ID	Impervious Item	Dimensions	Area
6. THE STORAGE OF ALL CONSTRUCTION MATERIAL	DTENTIAL	06	Wood Deck Wood Deck	12'-4" x 37'-10" 8'-1" x 39'-4"	465 () 318 ()
EQUIPMENT MUST BE PROTECTED AGAINST ANY PO	<u></u> 06				
		,			
RELEASE OF POLLUTANTS INTO THE ENVIRONMENT          Plot Plan and BMP Plan         1" = 20'-0"		-	ION	CONTACT	
RELEASE OF POLLUTANTS INTO THE ENVIRONMENT          Plot Plan and BMP Plan         1" = 20'-0"	OWNER I	NFORMAT	ION		
Plot Plan and BMP Plan         2       Plot Plan and BMP Plan         1" = 20'-0"         TCINITY MAP         PROJECT SITE         ALTA MIRA DRIVE	OWNER II	ATRICIA DZIUK		NAME: LEC	NARDO BUENDIA
Plot Plan and BMP Plan         2       1" = 20'-0"         YICINITY MAP         PROJECT SITE	OWNER II NAME: P/ ADDRESS: 78	ATRICIA DZIUK		NAME: LEC ADDRESS: 972	DNARDO BUENDIA EMBARCADERO ROA
Plot Plan and BMP Plan 2 Plot Plan and BMP Plan 1" = 20'-0" PROJECT SITE ALTA MIRA DRIVE LA MESA, CA 91941	OWNERIINAME:P/ADDRESS:78CITY:C/	ATRICIA DZIUK 305 ESTANCIA STRE ARLSBAD		NAME: LEC ADDRESS: 972 CITY: PAL	ONARDO BUENDIA EMBARCADERO ROA O ALTO
Plot Plan and BMP Plan 2 Plot Plan and BMP Plan 1" = 20'-0" /ICINITY MAP PROJECT SITE ALTA MIRA DRIVE LA MESA, CA 91941 CHALLENGE BLVD	OWNERIINAME:P/ADDRESS:78CITY:C/STATE:C/	ATRICIA DZIUK		NAME: LEC ADDRESS: 972 CITY: PAL	ONARDO BUENDIA EMBARCADERO ROA O ALTO IFORNIA
Plot Plan and BMP Plan 2 Plot Plan and BMP Plan 1" = 20'-0" /ICINITY MAP PROJECT SITE ALTA MIRA DRIVE LA MESA, CA 91941 (CHALLENGE BLVD	OWNERIINAME:P/ADDRESS:78CITY:C/STATE:C/ZIP:92	ATRICIA DZIUK 305 ESTANCIA STRE ARLSBAD ALIFORNIA		NAME: LEC ADDRESS: 972 CITY: PAL STATE: CAL ZIP: 943	ONARDO BUENDIA EMBARCADERO ROA O ALTO IFORNIA
Plot Plan and BMP Plan 1" = 20'-0" PROJECT SITE ALTA MIRA DRIVE LA MESA, CA 91941 CHALLENGE BLVD	OWNERIINAME:P/ADDRESS:78CITY:C/STATE:C/ZIP:92	ATRICIA DZIUK 305 ESTANCIA STRE ARLSBAD ALIFORNIA 2009		NAME: LEC ADDRESS: 972 CITY: PAL STATE: CAL ZIP: 943	EMBARCADERO ROAI O ALTO IFORNIA 03

STORM WATER QUALITY NOTES 7 CONSTRUCTION BMP'S

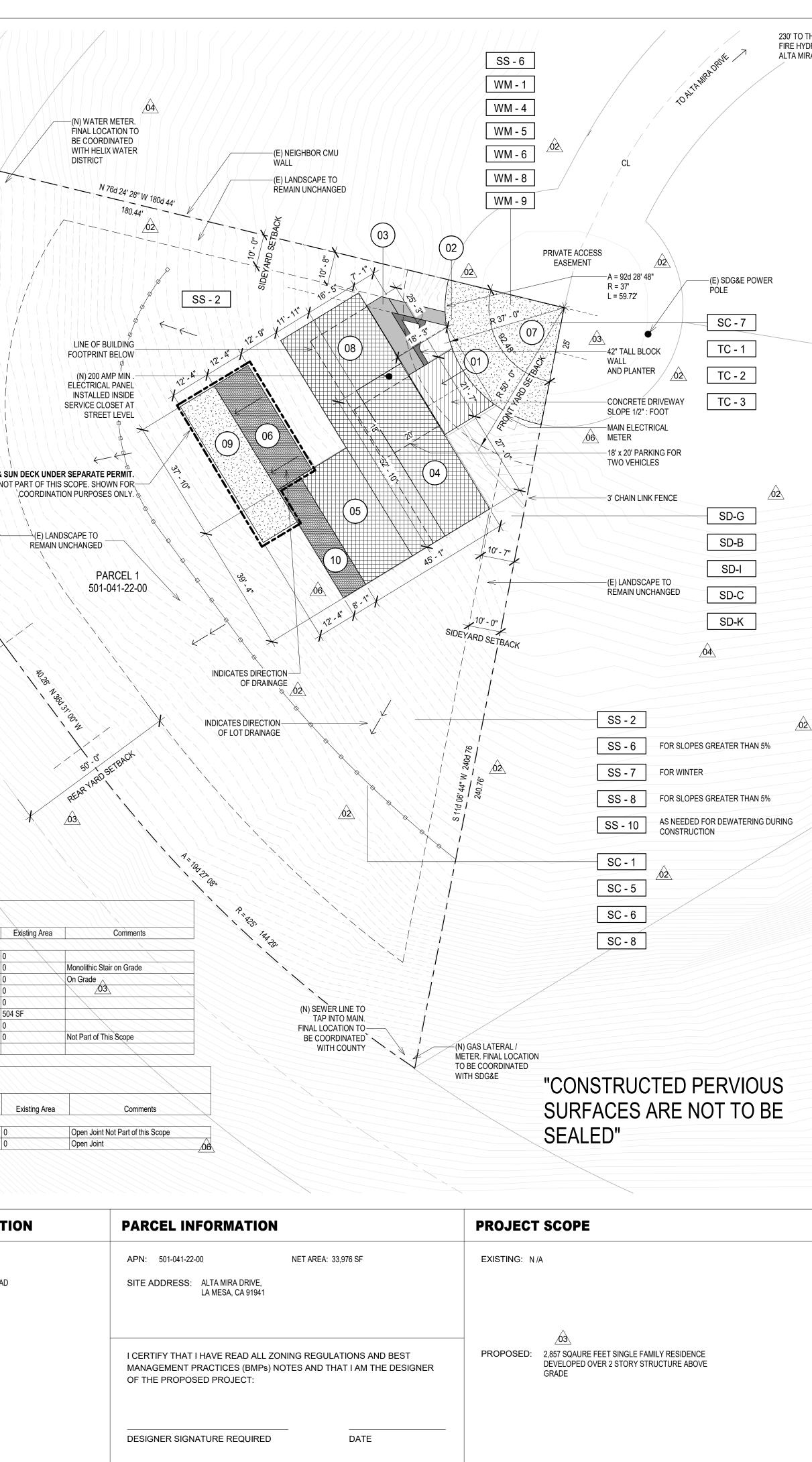
THIS PROJECT SHALL COMPLY WITH ALL CURRENT REQUIREMENTS OF THE STATE PERMIT: CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (SDRWQCB), SAN DIEGO MUNICIPAL STORM WATER PERMIT, THE COUNTY OF SAN DIEGO LAND DEVELOPMENT CODE AND THE STORM WATER STANDARDS MANUAL

NOTES BELOW REPRESENT KEY MINIMUM REQUIREMENTS FOR CONSTRUCTION BMP'S

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF ALL SILT AND MUD ON ADJACENT STREETS, DUE TO CONSTRUCTION VEHICLES OR AN OTHER CONSTRUCTION ACTIVITY, AT THE END OF EACH WORK DAY, OR AFTER A STORM EVENT THAT CAUSES BREECH IN INSTALLED CONSTRUCTION BMP'S WHICH MAY COMPROMISE STORM WATER QUALITY WITHIN ANY STREETS. A STABILIZED CONSTRUCTION EXIT MAY BE REQUIRED TO PREVENT CONSTRUCTION VEHICLES OR EQUIPMENT FROM TRACKING MUD OR SILT ONTO THE STREET.
- 2. ALL STOCK PILES OF SOIL AND/OR BUILDING MATERIALS THAT ARE INTENDED TO BE LEFT FOR A PERIOD GREATER THAT SEVEN CALENDAR DAYS ARE TO BE COVERED. ALL REMOVABLE BMP DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN FIVE DAY RAIN PROBABILITY FORECAST EXCEEDS 40%

STORM WATER QUALITY NOTES 7 CONSTRUCTION BMP'S (CONT.)

- POURED IN PLACE ON SITE.
- MATERIAL BREACH IN EFFECTIVENESS.
- BE PROTECTED AGAINST EROSION AND SEDIMENT TRANSPORT AT ALL TIMES.
- PROTECTED AGAINST ANY POTENTIAL RELEASE OF POLLUTANTS INTO THE ENVIRONMENT.



3. A CONCRETE WASHOUT SHALL BE PROVIDED ON ALL PROJECTS WHICH PROPOSE THE CONSTRUCTION OF ANY CONCRETE IMPROVEMENTS THAT ARE TO BE

4. THE CONTRACTOR SHALL RESTORE ALL EROSION / SEDIMENT CONTROL DEVICES TO WORKING ORDER AFTER EACH RUN OFF PRODUCING RAINFALL OR AFTER ANY

5. ALL SLOPES THAT ARE CREATED OR DISTURBED BY CONSTRUCTION ACTIVITY MUST

6. THE STORAGE OF ALL CONSTRUCTION MATERIALS AND EQUIPMENT MUST BE

EARTHWORK QUANTITIES

CUT QUANTITIES: 182 CYD IMPORT/EXPORT: 0 (ZERO) CYD MAX CUT DEPTH: 5 FEET MAX FILL DEPTH: 7 FEET - 3 INCHES

THIS PROJECT PROPOSES EXPORT OF 0 (ZERO) CUBIC YARDS OF MATERIAL FROM THE PROJECT SITE. ALL EXPORT MUST BE DISPOSED INTO LEGAL DISPOSAL SITE. THE APPROVAL OF THIS PROJECT DOES NOT ALLOW PROCESSING AND SALE OF MATERIAL. ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT.

ALL DRAINAGE TO BE ROUTED TO NEW AND EXISTING LANDSCAPING

FILL OVER 2' SHALL BE COMPACTED IN ACCORDANCE WITH THE SOILS REPORT TO 90%

THE NEAREST	
DRANT ALONG	
RA DRIVE	

-		BMP LEGEND	SHEET INDEX	
3	PDS 659	BROW DITCH $\implies$	_	
		$BERM \longrightarrow B \longrightarrow$	REFER TO SHEET A-001	FOR SHEET INDEX
		VASTE MANAGEMENT_BMPs: TERIAL DELIVERY & STORAGE		
		LL PREVENTION AND CONTROL		
	WM-8 COI	NCRETE WASTE MANAGEMENT		
		ID WASTE MANAGEMENT		
		NITARY WASTE MANAGEMENT		
		ZARDOUS WASTE MANAGEMENT		
		SERVATION OF EXISTING		
		NDED OR STABILIZED FIBER MATRIX		
	· · ·	DROSEEDING (SUMMER) ~ TSP ~ TSP ~		
	SS-6 / SS-8	<b>STRAW OR WOOD MULCH</b> S/W S/W		
	SS-7 PH			
	SS-10 ENE			
	SC-1 SIL			
	SC-2 SEE	DIMENT / DESILTING BASIN		
	SC-5 FIB	ER ROLLSFRFR		
	SC-6 / SC-8			
		REET SWEEPING AND VACUUMING		
	NS-2 DEV	VATERING FILTRATIONOWOW		
	TC-1 STA	BILIZED CONSTRUCTION ENTRANCE		
	TC-2 COI			
		CUTION SITE DESIGN BMPs ERVE NATURAL FEATURES		
		DE BUFFERS AROUND WATERBODIES		
		T RUNOFF TO PERVIOUS AREAS		
	SD-I CONST	RUCT SURFACES FROM PERMEABLE MATERIALS		
	SD-C INSTAI	LL GREEN ROOFS		
		L RAIN BARRELS		
	SD-K SUSTA	INABLE LANDSCAPE		
		ICTION SOURCE CONTROL BMPs		
		NTION OF ILLICIT DISCHARGES INTO THE MS4		
		CTED OUTDOOR MATERIALS STORAGE AREAS		
	4.2.4 <b>PROTE</b>	CT MATERIALS STORED IN OUTDOOR WORK AREAS	RESERVED FOR C	CUNIT STAMPS
		CT TRASH STORAGE AREAS		
		BMPs BASED ON POTENTIAL RUNOFF POLLUTANTS: E STORM DRAIN INLETS		
		OR FLOOR DRAINS & ELEVATOR SHAFT SUMPS		
		OR PARKING GARAGES		
	D NEED F	OR FUTURE INDOOR & STR. PEST CONTROL		
	E LANDS	CAPE/OUTDOOR PESTICIDE USE		
		, SPAS, PONDS, FOUNTAINS, & WATER FEATURES		
		SERVICE OR REFUSE AREAS		
		OR REFUSE AREAS		
		IRIAL PROCESSES		
		RIAL PROCESSES OR STORAGE OF EQUIP. OR MATERIALS		
	I INDUST J OUTDO K VEHICL	OR STORAGE OF EQUIP. OR MATERIALS		
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EERING SCALE: 1" = 20'	IINDUSTJOUTDOKVEHICLLVEHICLMFUEL DNLOADINOFIRE SIPMISCEI	OR STORAGE OF EQUIP. OR MATERIALS LE AND EQUIPMENT CLEANING LE/EQUIPEMENT REPAIR AND MAINTENANCE DISPENSING AREAS NG DOCKS PRINKLER TEST WATER LLANEOUS DRAIN OR WASH WATER		
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PROJECT DATE DZK-2018-01 11/27/2019 NUMBER SCALE A-003-R As indicated							

# 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE **RESIDENTIAL MANDATORY MEASURES, SHEET 1** (INCLUDING JANUARY 1, 2017 ERRATA)

CTOR	INSPECTOR	INSPECTOR	INSPECTOR
	SIGNOFF	SIGNOFF	SIGNOFF
GREEN BUILDING SECTION 301 GENERAL			
<b>301.1 SCOPE.</b> Buildings shall be designed to include the green building measures specified as mandatory in	4.106.4.2.2 Electric vehicle charging space (EV space) dimensions. The EV space shall be designed to comply with the following:	4.304 OUTDOOR WATER USE 4.304.1 IRRIGATION CONTROLLERS. Automatic irrigation system controllers for landscaping provided by the	MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by addin compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to
the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code,	<ol> <li>The minimum length of each EV space shall be 18 feet (5486 mm).</li> </ol>	builder and installed at the time of final inspection shall comply with the following:	hundredths of a gram (g O <sup>3</sup> /g ROC). Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Section
but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.	<ol> <li>The minimum width of each EV space shall be 9 feet (2743 mm).</li> <li>One in every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm).</li> </ol>	<ol> <li>Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change.</li> </ol>	and 94701. <b>MOISTURE CONTENT.</b> The weight of the water in wood expressed in percentage of the weight of the oven
<b>301.1.1 Additions and alterations. [HCD]</b> The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the buildings are different as a statement of the second s	wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).	<ol> <li>Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the</li> </ol>	PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject
building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.	<ul> <li>Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 unit horizontal (2.083 percent slope) in any direction.</li> </ul>	controller(s). Soil moisture-based controllers are not required to have rain sensor input.	article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per grap product (excluding container and packaging).
<b>Note:</b> On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures.	nonzontal (2.000 percent slope) in any direction.	<b>Note:</b> More information regarding irrigation controller function and specifications is available from the Irrigation Association.	Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).
Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval by the local building department. See Civil Code Section 1101.1,	4.106.4.2.3 Single EV space required. Install a listed raceway capable of accommodating a 208/240- volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside	DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE	REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribu- ozone formation in the troposphere.
et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.	diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the proposed location of the EV spaces. Construction	EFFICIENCY	<b>VOC.</b> A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chain with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typical
301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of	documents shall identify the raceway termination point. The service panel and/or subpanel shall provid capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.	4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE	hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a).
individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential buildings, or both. Individual sections will be designated by banners to indicate where the section applies	4.106.4.2.4 Multiple EV spaces required. Construction documents shall indicate the raceway	4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing	4.503 FIREPLACES 4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed
specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and high-rise buildings, no banner will be used.	termination point and proposed location of future EV spaces and EV chargers. Construction documents shall also provide information on amperage of future EVSE, raceway method(s), wiring schematics and	agency.	woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission applicable, and shall have a permanent label indication they are certified to meet the emission limts. Wood
SECTION 302 MIXED OCCUPANCY BUILDINGS	electrical load calculations to verify that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all E		pellet stoves and fireplaces shall also comply with applicable local ordinances. 4.504 POLLUTANT CONTROL
302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building	at all required EV spaces at the full rated amperage of the EVSE. Plan design shall be based upon a 40-ampere minimum branch circuit. Raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of	percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste	4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until
shall comply with the specific green building measures applicable to each specific occupancy.	original construction.	management ordinance.	startup of the heating, cooling and ventilating equipment, all duct and other related air distribution co- openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing
ABBREVIATION DEFINITIONS:	4.106.4.2.5 Indentification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging purposes as "EV CAPABLE" in accordance	1. Excavated soil and land-clearing debris.	to reduce the amount of water, dust or debris which may enter the system.
HCD       Department of Housing and Community Development         BSC       California Building Standards Commission         DSA-SS       Division of the State Architect, Structural Safety	with the California Electrical Code.	<ol> <li>Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably</li> </ol>	<ul> <li>4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section.</li> <li>4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project sh</li> </ul>
OSHPD Office of Statewide Health Planning and Development	Notes: 1. The California Department of Transportation adopts and publishes the "Californa Man	<ul><li>close to the jobsite.</li><li>3. The enforcing agency may make exceptions to the requirements of this section when isolated</li></ul>	requirements of the following standards unless more stringent local or regional air pollution or air qua management district rules apply:
HR High Rise AA Additions and Alterations	on Uniform Traffic Control Devices (California MUTCD)" to provide uniform standards and specifications for all official traffic control devices in California. Zero Emission	jobolie ale located in aleas beyond the nati beandance of the diversion identity.	<ol> <li>Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and ca</li> </ol>
N New	Vehicle Signs and Pavement Markings can be found in the New Policies & Directives Number 13-01. Website: www.dot.ca.gov/trafficops/policy/13-01.pdf	4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.	shall comply with local or regional air pollution control or air quality management district re applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as a
CHAPTER 4	2. See Vehicle Code Section 22511 for EV charging space signage in off-street parking	<ol> <li>Identify the construction and demolition waste materials to be diverted from disposal by recycling,</li> </ol>	Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and triplereathylene), except for acressed products, as appointed in Subsection 2 holew.
RESIDENTIAL MANDATORY MEASURES	facilities and for use of EV charging spaces.	<ul><li>reuse on the project or salvage for future use or sale.</li><li>2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or</li></ul>	<ul><li>tricloroethylene), except for aerosol products, as specified in Subsection 2 below.</li><li>2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compound</li></ul>
DIVISION 4.1 PLANNING AND DESIGN	<ol> <li>The Governor's Office of Planning and Research (OPR) published a "Zero-Emission Vehicle Community Readiness Guidebook" which provides helpful information for local governments, residents and businesses.</li> </ol>	<ul><li>bulk mixed (single stream).</li><li>3. Identify diversion facilities where the construction and demolition waste material collected will be taken.</li></ul>	<ol> <li>Aerosol adnesives, and smaller unit sizes of adnesives, and sealant or caulking compound units of product, less packaging, which do not weigh more than 1 pound and do not consist than 16 fluid ounces) shall comply with statewide VOC standards and other requirements.</li> </ol>
SECTION 4.102 DEFINITIONS	Website: http://opr.ca.gov/docs/ZEV_Guidebook.pdf.	<ol> <li>Identify construction methods employed to reduce the amount of construction and demolition waste</li> </ol>	prohibitions on use of certain toxic compounds, of <i>California Code of Regulations</i> , Title 17 commencing with section 94507.
4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)	DIVISION 4.2 ENERGY EFFICIENCY	<ul> <li>5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.</li> </ul>	4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in T
FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar pervious material used to collect or channel drainage or runoff water.	<b>4.201 GENERAL</b> <b>4.201.1 SCOPE.</b> For the purposes of mandatory energy efficiency standards in this code, the California Energy	4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the	the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringer apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings a listed in Table 4.504.3 shall be determined by classifying the coating as a Elet Nonflet or Nonflet History and the determined by classifying the coating as a Elet Nonflet or Nonflet History and the determined by classifying the coating as a Elet Nonflet or Nonflet History and the determined by classifying the coating as a Elet Nonflet or Nonflet History and the determined by classifying the coating as a Elet Nonflet or Nonflet History and the determined by classifying the coating as a Elet Nonflet or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classifying the coating as a first or Nonflet History and the determined by classify
WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials	Commission will continue to adopt mandatory standards.	enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.	listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-Hig coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC
such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.	DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION	Note: The owner or contractor may make the determination if the construction and demolition waste	Table 4.504.3 shall apply.
4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation	4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and	4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined	4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weigh Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certa
and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, management of storm water drainage and erosion controls shall comply with this section.	urinals) and fittings (faucets and showerheads) shall comply with the following:	weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 Ibs./sg.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in	compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay
4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less	4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense	Section 4.408.1	Quality Management District additionally comply with the percent VOC by weight of product limits of 8, Rule 49.
than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction. In order to manage storm water drainage	Specification for Tank-type Toilets.	4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2	<b>4.504.2.4 Verification.</b> Verification of compliance with this section shall be provided at the request enforcing agency. Documentation may include, but is not limited to, the following:
during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent property, prevent erosion and retain soil runoff on the site.	<b>Note</b> : The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.	Ibs./sq.ft. of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1	<ol> <li>Manufacturer's product specification.</li> </ol>
<ol> <li>Retention basins of sufficient size shall be utilized to retain storm water on the site.</li> <li>Where storm water is conveyed to a public drainage system, collection point, gutter or similar</li> </ol>	<b>4.303.1.2 Urinals.</b> The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.	<b>4.408.5 DOCUMENTATION</b> . Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4.	<ol><li>Field verification of on-site product containers.</li></ol>
disposal method, water shall be filtered by use of a barrier system, wattle or other method approved by the enforcing agency.	4.303.1.3 Showerheads.	Notes:	
3. Compliance with a lawfully enacted storm water management ordinance.	4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 2.0	1. Sample forms found in "A Guide to the California Green Building Standards Code	TABLE 4.504.1 - ADHESIVE VOC LIMIT <sub>1,2</sub> (Less Water and Less Exempt Compounds in Grams per Liter)
4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include but are not limited to the following.	gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EP. WaterSense Specification for Showerheads.	<ul> <li>(Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.</li> <li>2. Mixed construction and demolition debris (C &amp; D) processors can be located at the California</li> </ul>	ARCHITECTURAL APPLICATIONS CURRENT VOC LIMIT
water include, but are not limited to, the following:	<b>4.303.1.3.2 Multiple showerheads serving one shower</b> . When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by	Department of Resources Recycling and Recovery (CalRecycle).	INDOOR CARPET ADHESIVES 50
<ol> <li>Water collection and disposal systems</li> <li>French drains</li> </ol>	a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to only allow one shower outlet to be in operation at a time.	4.410 BUILDING MAINTENANCE AND OPERATION 4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact	CARPET PAD ADHESIVES 50 OUTDOOR CARPET ADHESIVES 150
<ol> <li>Water retention gardens</li> <li>Other water measures which keep surface water away from buildings and aid in groundwater</li> </ol>	Note: A hand-held shower shall be considered a showerhead.	disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:	OUTDOOR CARPET ADHESIVES     150       WOOD FLOORING ADHESIVES     100
recharge. Exception: Additions and alterations not altering the drainage path.	4.303.1.4 Faucets.	<ol> <li>Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.</li> </ol>	RUBBER FLOOR ADHESIVES 60
4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections	4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shal not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall		SUBFLOOR ADHESIVES 50
4.106.4.1 and 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the <i>California Electrical Code</i> , Article 625.	not be less than 0.8 gallons per minute at 20 psi.	photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment.	CERAMIC TILE ADHESIVES     65       VCT & ASPHALT TILE ADHESIVES     50
Exceptions: On a case-by-case basis, where the local enforcing agency has determined EV charging	4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavator faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential	<ul> <li>Space conditioning systems, including condensers and air filters.</li> </ul>	DRYWALL & PANEL ADHESIVES 50
and infrastructure are not feasible based upon one or more of the following conditions:	<ul><li>buildings shall not exceed 0.5 gallons per minute at 60 psi.</li><li>4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver</li></ul>	<ul> <li>d. Landscape irrigation systems.</li> <li>e. Water reuse systems.</li> <li>3. Information from local utility, water and waste recovery providers on methods to further reduce</li> </ul>	COVE BASE ADHESIVES 50
<ol> <li>Where there is no commercial power supply.</li> <li>Where there is evidence substantiating that meeting the requirements will alter the local utility infrastructure design requirements on the utility side of the meter so as to increase the utility side cost</li> </ol>	more than 0.25 gallons per cycle.	<ul> <li>resource consumption, including recycle programs and locations.</li> <li>Public transportation and/or carpool options available in the area.</li> </ul>	MULTIPURPOSE CONSTRUCTION ADHESIVE 70 STRUCTURAL GLAZING ADHESIVES 100
to the homeowner or developer by more than \$400.00 per unit.	<b>4.303.1.4.4 Kitchen Faucets.</b> The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but r	5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent	STRUCTURAL GLAZING ADHESIVES     100       SINGLE-PLY ROOF MEMBRANE ADHESIVES     250
4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway	to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.	<ol> <li>Information about water-conserving landscape and irrigation design and controllers which conserve water.</li> </ol>	OTHER ADHESIVES NOT LISTED 50
shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or	Note: Where complying faucets are unavailable, aerators or other means may be used to achiev	<ol> <li>Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.</li> <li>Information on required routine maintenance measures, including, but not limited to, caulking,</li> </ol>	SPECIALTY APPLICATIONS
concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent	4.303.2 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installe	<ul> <li>painting, grading around the building, etc.</li> <li>Information about state solar energy and incentive programs available.</li> </ul>	PVC WELDING 510 CPVC WELDING 490
protective device.	in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code.	<ol> <li>A copy of all special inspections verifications required by the enforcing agency or this [California Green Building Standards] code.</li> </ol>	ABS WELDING 325
4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".	NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND	4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a	PLASTIC CEMENT WELDING 250
	IS INCLUDED AS A CONVENIENCE FOR THE USER.	building site, provide readily accessible area(s) that serves all buildings on the site and is identified for the depositing, storage and collection of non-hazaradous materials for recycling, including (at a minimum) paper, corrugated cardboard class, plastics, organic waster, and metals, or meet a lawfully enacted local recycling.	ADHESIVE PRIMER FOR PLASTIC 550 CONTACT ADHESIVE 80
4.106.4.2 New multifamily dwellings. Where 17 or more multifamily dwelling units are constructed on a building site, 3 percent of the total number of parking spaces provided for all types of parking facilities, but in no case less than one, shall be electric vehicle charging stations (EV spaces) capable of supporting future EVSE.	TABLE - MAXIMUM FIXTURE WATER USE	corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.	SPECIAL PURPOSE CONTACT ADHESIVE 250
Calculations for the number of EV spaces shall be rounded up to the nearest whole number.	FIXTURE TYPE FLOW RATE	DIVISION 4.5 ENVIRONMENTAL QUALITY	STRUCTURAL WOOD MEMBER ADHESIVE 140
Note: Construction documents are intended to demonstrate the project's capability and capacity for facilitating future EV charging. There is no requirement for EV spaces to be constructed or available until	(RESIDENTIAL) 2.0 GMP @ 80 PSI	SECTION 4.501 GENERAL 4.501.1 Scope	TOP & TRIM ADHESIVE 250
EV chargers are installed for use.	LAVATORY FAUCETSMAX. 1.2 GPM @ 60 PSI(RESIDENTIAL)MIN. 0.8 GPM @ 20 PSI	The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.	SUBSTRATE SPECIFIC APPLICATIONS       METAL TO METAL     30
4.106.4.2.1 Electric vehicle charging space (EV space) locations. Construction documents shall indicate the location of proposed EV spaces. At least one EV space shall be located in common use areas and available for use by all residents.	LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS 0.5 GPM @ 60 PSI	SECTION 4.502 DEFINITIONS	PLASTIC FOAMS 50
areas and available for use by all residents. When EV chargers are installed, EV spaces required by Section 4.106.2.2, Item 3, shall comply with at	COMMON & PUBLIC USE AREAS       KITCHEN FAUCETS       1.8 GPM @ 60 PSI	5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)	POROUS MATERIAL (EXCEPT WOOD) 50
least one of the following options:	METERING FAUCETS 0.25 GAL/CYCLE	AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door	WOOD 30
<ol> <li>The EV space shall be located adjacent to an accessible parking space meeting the requirements of the <i>California Building Code</i>, Chapter 11A, to allow use of the EV charger</li> </ol>	WATER CLOSET 1.28 GAL/FLUSH	cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements. <b>COMPOSITE WOOD PRODUCTS.</b> Composite wood products include hardwood plywood, particleboard and	FIBERGLASS 80
<ul><li>from the accessible parking space.</li><li>2. The EV space shall be located on an accessible route, as defined in the California Building</li></ul>	URINALS 0.125 GAL/FLUSH	medium density fiberboard. "Composite wood products" does not include hardwood plywood, particleboard and structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated	1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER,
Code, Chapter 2, to the building.		wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section 93120.1.	THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.
			2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR
		DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for	김 사망 정말 관계 가지 않는 것이 같은 것이 같이 같이 같이 있는 것이 같이 같이 있는 것이 같이 않는 것이 같이 많이
		combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.	QUALITY MANAGEMENT DISTRICT RULE 1168.

- 1. The minimum length of each EV space shall be 18 feet (5486 mm).
- 2. The minimum width of each EV space shall be 9 feet (2743 mm). 3. One in every 25 EV spaces, but not less than one EV space, shall have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm).
- a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.

- 1. The California Department of Transportation adopts and publishes the "Californa Man on Uniform Traffic Control Devices (California MUTCD)" to provide uniform standards and specifications for all official traffic control devices in California. Zero Emission Vehicle Signs and Pavement Markings can be found in the New Policies & Directives Number 13-01. Website: www.dot.ca.gov/trafficops/policy/13-01.pdf
- 2. See Vehicle Code Section 22511 for EV charging space signage in off-street parking facilities and for use of EV charging spaces.
- 3. The Governor's Office of Planning and Research (OPR) published a "Zero-Emission Vehicle Community Readiness Guidebook" which provides helpful information for local governments, residents and businesses. Website: http://opr.ca.gov/docs/ZEV Guidebook.pdf.

# ION 4.2 ENERGY EFFICIENCY

# ENERAL

# ION 4.3 WATER EFFICIENCY AND CONSERVATION INDOOR WATER USE

## 3.1.3 Showerheads.

### 3.1.4 Faucets.

### 4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not delive more than 0.25 gallons per cycle.

FIXTURE TYPE	FLOW RATE			
SHOWER HEADS (RESIDENTIAL)	2.0 GMP @ 80 PSI			
LAVATORY FAUCETS (RESIDENTIAL)	MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 PSI			
LAVATORY FAUCETS IN COMMON & PUBLIC USE AREAS	0.5 GPM @ 60 PSI			
KITCHEN FAUCETS	1.8 GPM @ 60 PSI			
METERING FAUCETS	0.25 GAL/CYCLE			
WATER CLOSET	1.28 GAL/FLUSH			
URINALS	0.125 GAL/FLUSH			

	INSPECTOR SIGNOFF		INSPECTOR SIGNOFF		
	51614011		SIGNOIT		
		<ul> <li>4.304 OUTDOOR WATER USE</li> <li>4.304.1 IRRIGATION CONTROLLERS. Automatic irrigation system controllers for landscaping provided by the builder and installed at the time of final inspection shall comply with the following:</li> </ul>		MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum char compound to the "Base Reactive Organic Gas (ROG) Mixture" per we hundredths of a gram (g O <sup>3</sup> /g ROC).	eight of compound added, expressed to
)		<ol> <li>Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change.</li> </ol>		Note: MIR values for individual compounds and hydrocarbon solvents and 94701. <b>MOISTURE CONTENT.</b> The weight of the water in wood expressed i	
		<ol> <li>Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.</li> </ol>		<b>PRODUCT-WEIGHTED MIR (PWMIR).</b> The sum of all weighted-MIR article. The PWMIR is the total product reactivity expressed to hundred	for all ingredients in a product subject to this
s		<b>Note:</b> More information regarding irrigation controller function and specifications is available from the Irrigation Association.		product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title	i ne men e presidente de la Section de la construction de la construction de la construction de la construction
		DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE		<b>REACTIVE ORGANIC COMPOUND (ROC).</b> Any compound that has ozone formation in the troposphere.	the potential, once emitted, to contribute to
e		EFFICIENCY		<b>VOC.</b> A volatile organic compound (VOC) broadly defined as a chem with vapor pressures greater than 0.1 millimeters of mercury at room hydrogen and may contain oxygen, nitrogen and other elements. See	temperature. These compounds typically contai
		<ul> <li>4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE</li> <li>4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such</li> </ul>		4.503 FIREPLACES 4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent	
8		openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency. 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING		woodstove or pellet stove shall comply with U.S. EPA New Source Pe applicable, and shall have a permanent label indication they are certi- pellet stoves and fireplaces shall also comply with applicable local or	erformance Standards (NSPS) emission limits as fied to meet the emission limts. Woodstoves,
Vs I		4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.		4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF ME CONSTRUCTION. At the time of rough installation, during sto	rage on the construction site and until final
nt		Exceptions:		startup of the heating, cooling and ventilating equipment, all du openings shall be covered with tape, plastic, sheet metal or oth to reduce the amount of water, dust or debris which may enter	ner methods acceptable to the enforcing agency
		<ol> <li>Excavated soil and land-clearing debris.</li> <li>Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably</li> </ol>		4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materi 4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, seal	
ual		<ul> <li>close to the jobsite.</li> <li>3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsite are located in areas beyond the haul boundaries of the diversion facility.</li> </ul>		requirements of the following standards unless more stringent management district rules apply:	
		<b>4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN</b> . Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.		<ol> <li>Adhesives, adhesive bonding primers, adhesive prim shall comply with local or regional air pollution contro applicable or SCAQMD Rule 1168 VOC limits, as sh Such products also shall comply with the Rule 1168</li> </ol>	ol or air quality management district rules where nown in Table 4.504.1 or 4.504.2, as applicable. prohibition on the use of certain toxic
		<ol> <li>Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale.</li> <li>Specify if construction and demolition waste materials will be sorted on-site (source separated) or</li> </ol>		compounds (chloroform, ethylene dichloride, methyle tricloroethylene), except for aerosol products, as spe	ecified in Subsection 2 below.
1		<ul><li>bulk mixed (single stream).</li><li>3. Identify diversion facilities where the construction and demolition waste material collected will be taken.</li></ul>		<ol> <li>Aerosol adhesives, and smaller unit sizes of adhesiv units of product, less packaging, which do not weigh than 16 fluid ounces) shall comply with statewide VC</li> </ol>	more than 1 pound and do not consist of more DC standards and other requirements, including
		<ol> <li>Identify construction methods employed to reduce the amount of construction and demolition waste generated.</li> <li>Specify that the amount of construction and demolition waste materials diverted shall be calculated</li> </ol>		prohibitions on use of certain toxic compounds, of C commencing with section 94507. 4.504.2.2 Paints and Coatings. Architectural paints and coat	
		<ul> <li>by weight or volume, but not by both.</li> <li>4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.</li> </ul>		the ARB Architectural Suggested Control Measure, as shown in apply. The VOC content limit for coatings that do not meet the listed in Table 4.504.3 shall be determined by classifying the co- coating, based on its gloss, as defined in subsections 4.21, 4.3	e definitions for the specialty coatings categories oating as a Flat, Nonflat or Nonflat-High Gloss 36, and 4.37 of the 2007 California Air Resources
		<b>Note:</b> The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.		Board, Suggested Control Measure, and the corresponding Fla Table 4.504.3 shall apply.	
		4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1		4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and Limits for ROC in Section 94522(a)(2) and other requirements, compounds and ozone depleting substances, in Sections 9452 Regulations, Title 17, commencing with Section 94520; and in Quality Management District additionally comply with the percent.	including prohibitions on use of certain toxic 22(e)(1) and (f)(1) of <i>California Code of</i> areas under the jurisdiction of the Bay Area Air
		<b>4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE.</b> Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 lbs./sq.ft. of the building area, shall meet the minimum 65% construction waste reduction requirement		<ol> <li>Rule 49.</li> <li>4.504.2.4 Verification. Verification of compliance with this see enforcing agency. Documentation may include, but is not limited</li> </ol>	
h.		<ul> <li>in Section 4.408.1</li> <li>4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4</li> </ul>		<ol> <li>Manufacturer's product specification.</li> <li>Field verification of on-site product containers.</li> </ol>	
		Notes:		TABLE 4.504.1 - ADHESIVE VOC LIM	IT <sub>1,2</sub>
4		<ol> <li>Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section.</li> </ol>		(Less Water and Less Exempt Compounds in Gram	s per Liter)
13		<ol> <li>Mixed construction and demolition debris (C &amp; D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).</li> </ol>		ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES	50
,		4.410 BUILDING MAINTENANCE AND OPERATION		CARPET PAD ADHESIVES	50
		4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the		OUTDOOR CARPET ADHESIVES	150
		following shall be placed in the building:		WOOD FLOORING ADHESIVES	100
		<ol> <li>Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.</li> </ol>		RUBBER FLOOR ADHESIVES	60
all		<ol><li>Operation and maintenance instructions for the following:</li></ol>		SUBFLOOR ADHESIVES	50
5		<ul> <li>Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major</li> </ul>		CERAMIC TILE ADHESIVES	65
ry		appliances and equipment. b. Roof and yard drainage, including gutters and downspouts.		VCT & ASPHALT TILE ADHESIVES	50
6380 m		<ul> <li>c. Space conditioning systems, including condensers and air filters.</li> <li>d. Landscape irrigation systems.</li> </ul>		DRYWALL & PANEL ADHESIVES	50
		<ul> <li>e. Water reuse systems.</li> <li>3. Information from local utility, water and waste recovery providers on methods to further reduce</li> </ul>	1	COVE BASE ADHESIVES	50
^		resource consumption, including recycle programs and locations.		MULTIPURPOSE CONSTRUCTION ADHESIVE	70
		<ol> <li>Public transportation and/or carpool options available in the area.</li> <li>Educational material on the positive impacts of an interior relative humidity between 30-60 percent</li> </ol>		STRUCTURAL GLAZING ADHESIVES	100
not		<ul><li>and what methods an occupant may use to maintain the relative humidity level in that range.</li><li>6. Information about water-conserving landscape and irrigation design and controllers which conserve</li></ul>		SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
		<ul> <li>water.</li> <li>Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5</li> </ul>		OTHER ADHESIVES NOT LISTED	50
/e		feet away from the foundation.		SPECIALTY APPLICATIONS	
		<ol> <li>Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.</li> </ol>		PVC WELDING	510
d Ə		<ol> <li>Information about state solar energy and incentive programs available.</li> <li>A copy of all special inspections verifications required by the enforcing agency or this [California]</li> </ol>		CPVC WELDING	490
		Green Building Standards] code.		ABS WELDING	325
		4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a		PLASTIC CEMENT WELDING	250
		building site, provide readily accessible area(s) that serves all buildings on the site and is identified for the depositing, storage and collection of non-hazaradous materials for recycling, including (at a minimum) paper,		ADHESIVE PRIMER FOR PLASTIC	550
		corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.		CONTACT ADHESIVE	80
				SPECIAL PURPOSE CONTACT ADHESIVE	250
		DIVISION 4.5 ENVIRONMENTAL QUALITY	1	STRUCTURAL WOOD MEMBER ADHESIVE	140
		SECTION 4.501 GENERAL		TOP & TRIM ADHESIVE	250
		4.501.1 Scope The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous,		SUBSTRATE SPECIFIC APPLICATIONS	
		irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors.		METAL TO METAL	30
		SECTION 4.502 DEFINITIONS		PLASTIC FOAMS	50
		5.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)		POROUS MATERIAL (EXCEPT WOOD)	50
		AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door		WOOD	30
		cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements.		FIBERGLASS	80
		medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, prefabricated wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section		1. IF AN ADHESIVE IS USED TO BOND DISSIMILA THE ADHESIVE WITH THE HIGHEST VOC CONT	가 같은 것 같아요. 이렇게 잘 하는 것 같아요. 그는 것 같아요. 한 것 같아요. 같아요. 같아요. 것이 것 같아요. 그는 것이 가지 않는 것 같아요. 이 것 않 ? 이 것 같아요. 이 것 ? 이 것 같아요. 이 것 않아요. 이 없 ? 이 없 ? 이 않아요. 이 않아요. 이 없 ? 이 않아요. 이 있 ? 이 않아요. 이 않아요
		93120.1.		2. FOR ADDITIONAL INFORMATION REGARDING	
		DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.		THE VOC CONTENT SPECIFIED IN THIS TABLE, QUALITY MANAGEMENT DISTRICT RULE 1168.	SEE SOUTH COAST AIR
			1		

THER DISSII SPEC	EIN ARE THE PROP MINATED TO OTHEN IFIED PROJECT FOR	ERTY OF <b>o.lbm</b> AND RS OR USED IN CONI	IGNS, IDEAS, IMAGES SHALL NOT BE REPR VECTION WITH ANY V BEEN PREPARED, II TION OF <b>0.Ibm</b>	ODUCED, DISCLOS	ED OR NTHE
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### 2016 CALIFORNIA GREEN BUILDING STANDARDS C **RESIDENTIAL MANDATORY MEASURES, SHEET 2** (INCLUDING JANUARY 1, 20 INSPECTOR SIGNOFF NSPECTOR SIGNOFF **CHAPTER 7 INSTALLER & SPECIAL INSPECTOR (** 702 QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installers installation of HVAC systems including ducts and equipment by a nat certification program. Uncertified persons may perform HVAC install responsibility of a person trained and certified to install HVAC system Examples of acceptable HVAC training and certification programs ind 1. State certified apprenticeship programs. Public utility training programs. 3. Training programs sponsored by trade, labor or statewide 4. Programs sponsored by manufacturing organizations. 5. Other programs acceptable to the enforcing agency. 702.2 SPECIAL INSPECTION [HCD]. When required WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. responsible entity acting as the owner's agent shall employ one or m CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH other duties necessary to substantiate compliance with this code. S 93120.12. to the satisfaction of the enforcing agency for the particular type of in other certifications or qualifications acceptable to the enforcing agen-2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM considered by the enforcing agency when evaluating the qualification THICKNESS OF 5/16" (8 MM). 1. Certification by a national or regional green building progra 2. Certification by a statewide energy consulting or verificatio performance contractors, and home energy auditors. Successful completion of a third party apprentice training p Other programs acceptable to the enforcing agency. DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the testing and product 1. Special inspectors shall be independent entities with requirements of at least one of the following: project they are inspecting for compliance with this of 2. HERS raters are special inspectors certified by the ( 1. Carpet and Rug Institute's Green Label Plus Program. homes in California according to the Home Energy I 2. California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers" Version 1.1, [BSC] When required by the enforcing agency, the owner or the resp February 2010 (also known as Specification 01350). employ one or more special inspectors to provide inspection or other 3. NSF/ANSI 140 at the Gold level. this code. Special inspectors shall demonstrate competence to the s 4. Scientific Certifications Systems Indoor Advantage™ Gold. particular type of inspection or task to be performed. In addition, the recognized state, national or international association, as determined 4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the shall be closely related to the primary job function, as determined by requirements of the Carpet and Rug Institute's Green Label program. Note: Special inspectors shall be independent entities with no 4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1. project they are inspecting for compliance with this code. 4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed , at least 80% of floor area receiving resilient flooring shall comply with one or more of the following: **703 VERIFICATIONS** 1. Products compliant with the California Department of Public Health, "Standard Method for the Testing and 703.1 DOCUMENTATION. Documentation used to show Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," limited to, construction documents, plans, specifications, builder or in Version 1.1, February 2010 (also known as Specification 01350), certified as a CHPS Low-Emitting Material methods acceptable to the enforcing agency which demonstrate subin the Collaborative for High Performance Schools (CHPS) High Performance Products Database. documentation or special inspection is necessary to verify compliance 2. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children & Schools program). the appropriate section or identified applicable checklist. 3. Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program. . Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers", Version 1.1, February 2010 (also known as Specification 01350). 4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5 4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following: 1. Product certifications and specifications. 2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0153 and CSA 0325 standards. Other methods acceptable to the enforcing agency. 4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code. \_\_\_\_\_ 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section. 1 4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing agency. 3. A slab design specified by a licensed design professional. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. 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 content shall be verified in compliance with the following: 1. Moisture content shall be determined with either a probe-type 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. 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 verified. 3. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. 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 the manufacturers' drying recommendations prior to enclosure. 4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following: 1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. 2. Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control. a. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of

### NSPECTOR SIGNOFF

(Less Water and Less Exempt Compounds in Grams per Liter)				
SEALANTS	CURRENT VOC LIMIT			
ARCHITECTURAL	250			
MARINE DECK	760			
NONMEMBRANE ROOF	300			
ROADWAY	250			
SINGLE-PLY ROOF MEMBRANE	450			
OTHER	420			
SEALANT PRIMERS				
ARCHITECTURAL				
NON-POROUS	250			
POROUS	775			
MODIFIED BITUMINOUS	500			
MARINE DECK	760			
OTHER	750			

TABLE 4.504.3 - VOC CONTENT I ARCHITECTURAL COATINGS2,3	LIMITSFOR
GRAMS OF VOC PER LITER OF COATING, L COMPOUNDS	ESS WATER & LESS EXEM
COATING CATEGORY	CURRENT VOC LIMI
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
	50
RUST PREVENTATIVE COATINGS	250
SHELLACS	700
OPAQUE	550
SPECIALTY PRIMERS, SEALERS &	
UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350

MAXIMUM FORMALDEHYDE EMISSIONS IN PA	RTS PER MILLION
PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD2	0.13

- adjustment. b. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in)

# Notes:

- 1. For the purposes of this section, a bathroom is a room which contains a bathtub, shower or
- tub/shower combination. 2. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.

# 4.507 ENVIRONMENTAL COMFORT

inspector signoff         504.2 - SEALANT VOC LIMIT         ind Less Exempt Compounds in Grams per Liter)         Ind Less Exempt Compt Compounds in Grams per Liter) </th <th></th> <th>DFF</th> <th>INSPECTOR SIGNOFF</th> <th></th>		DFF	INSPECTOR SIGNOFF	
nd Less Exempt Compounds in Grams per Liter)  CURRENT VOC LIMIT  CURRENT VOC LIMIT				
	_	CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS		
		702 QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or		
K     760       ANE ROOF     300       HARDWOOD PLYWOOD COMPOSITE CORE     0.05       0.09		installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:		
250     MEDIUM DENSITY FIBERBOARD     0.11       ROOF MEMBRANE     450     THIN MEDIUM DENSITY FIBERBOARD2     0.13		<ol> <li>State certified apprenticeship programs.</li> <li>Public utility training programs.</li> </ol>		
420 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL		<ol> <li>Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.</li> <li>Programs sponsored by manufacturing organizations.</li> <li>Other programs acceptable to the enforcing agency.</li> </ol>		
IRAL WITH ASTME 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH		<b>702.2 SPECIAL INSPECTION [HCD].</b> When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence		
OUS     250     93120.12.       775     2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).		to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:		
K 760 750		<ol> <li>Certification by a national or regional green building program or standard publisher.</li> <li>Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.</li> </ol>		
DIVISION 4.5 ENVIRONMENTAL QUALITY (continu	ued)	<ol> <li>Successful completion of a third party apprentice training program in the appropriate trade.</li> <li>Other programs acceptable to the enforcing agency.</li> </ol>		
4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the testing requirements of at least one of the following:	and product	<ol> <li>Notes:         <ol> <li>Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.</li> <li>HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate</li> </ol> </li> </ol>		
<ol> <li>Carpet and Rug Institute's Green Label Plus Program.</li> <li>California Department of Public Health, "Standard Method for the Testing and Evalue Organic Chemical Emissions from Indoor Sources Using Environmental Chambers February 2010 (also known as Specification 01350).</li> </ol>	uation of Volatile " Version 1.1,	homes in California according to the Home Energy Rating System (HERS). [BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall		
3. NSF/ANSI 140 at the Gold level. VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT DS		employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a		
CATEGORY CURRENT VOC LIMIT CURRENT VOC LIMIT CURRENT VOC LIMIT For the Carpet and Rug Institute's Green Label program.		recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.  Note: Special inspectors shall be independent entities with no financial interest in the materials or the		
INSS       30         INSS       00         COATINGS       100         HIGH GLOSS COATINGS       150    Installed, at least 80 resilient flooring shall comply with one or more of the following:		project they are inspecting for compliance with this code.		
COATINGS      1. Products compliant with the California Department of Public Health, "Standard Mether Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environment	ironmental Chambers,"	703 VERIFICATIONS 703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other		
Automatical control       Automaticontecontrol       Automaticontecontro	lucts Database	methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.		
JS ROOF PRIMERS       350         AKERS       350	and Evaluation of			
E CURING COMPOUNDS 350 4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium d composite wood products used on the interior or exterior of the buildings shall meet the require	rements for			02 08/21/20 Clty Plan
SEALERS       50				01 11/27/19 Plan Che NO DATE R
SHING COATINGS     350       1     Product certifications and specifications	eu as requesteu			PER
STIVE COATINGS       350         ATINGS       100         CR, Title 17, Section 93120, et seq.).				ARCHITECT
EASE COMPOUNDS       250         ARTS COATINGS (SIGN PAINTS)       500         SERATURE CONTINGS (SIGN PAINTS)       500         ARTS COATINGS (SIGN PAINTS)       500         SERATURE COATINGS       120	s, and Canadian CSA			o.lbm
PERATURE COATINGS       420         420       4.505 INTERIOR MOISTURE CONTROL         4.505.1 General. Buildings shall meet or exceed the provisions of the California Building State	ndards Code.			972 Embarcadero Road, Pal 619.410.1432 lb@leona
DS COATINGS1       120         E CEMENT COATINGS       450         450       450	vapor retarder by			
XTURE COATINGS       100       California Residential Code, Chapter 5, shall also comply with this section.         PIGMENTED COATINGS       500       4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at lead following:	ast one of the			
OR COATINGS       250         MENT WASH PRIMERS       420         1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate a vapor barrier in direct contact with concrete and a concrete mix design, where the second secon	ich will address bleeding,			CONSULTANT
SEALERS, & UNDERCOATERS       100       shrinkage, and curling, shall be used. For additional information, see America ACI 302.2R-06.         PENETRATING SEALERS       350       2. Other equivalent methods approved by the enforcing agency.	can Concrete Institute,			
COATINGS       250         TINGS       50    3. A slab design specified by a licensed design professional.          4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible shall not be installed. Wall and floor framing shall not be enclosed when the framing members				
VENTATIVE COATINGS 250 moisture content. Moisture content shall be verified in compliance with the following: 1. Moisture content shall be determined with either a probe-type or contact-type moist	ure meter.Equivalent			CLIENT Patricia Dziuk
730       moisture verification methods may be approved by the enforcing agency and shall found in Section 101.8 of this code.         550       550	25 - 23			
Y PRIMERS, SEALERS &       100         ATERS       100    3. At least three random moisture readings shall be performed on wall and floor framin acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcing agency provided at the time of approval to enclose the acceptable to the enforcence to				
250       Insulation products which are visibly wet or have a high moisture content shall be replaced or enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacture recommendations prior to enclosure.				KEY PLAN
POOL COATINGS       340         ARKING COATINGS       100         ARKING COATINGS       100	comply with the			
REFINISH COATINGS       420         DOFING MEMBRANES       250         1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the bu         2. Unless functioning as a component of a whole house ventilation system, fans must				
ATINGS 275 humidity control. ESERVATIVES 350 a. Humidity controls shall be capable of adjustment between a relative humidity	range less than or			
PRIMERS       340         OF VOC PER LITER OF COATING, INCLUDING WATER &       b. A humidity control may be a separate component to the exhaust fan and is no integral (i.e., built-in)	C20 892 802 8			STAMP
ECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS Notes: D IN SUBSEQUENT COLUMNS IN THE TABLE.	av 112 - 170			INS.
<ol> <li>IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY</li> <li>ORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS</li> <li>For the purposes of this section, a bathroom is a room which contains a bath tub/shower combination.</li> <li>Lighting integral to bathroom exhaust fans shall comply with the California Error</li> </ol>				
<ul> <li>FROM THE AIR RESOURCES BOARD.</li> <li>4.507 ENVIRONMENTAL COMFORT         <ul> <li>4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditionin sized, designed and have their equipment selected using the following methods:</li> </ul> </li> </ul>	ng systems shall be			OT RE
<ol> <li>The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2 Load Calculation), ASHRAE handbooks or other equivalent design software or met</li> </ol>	hods.			K. C
<ol> <li>Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential D ASHRAE handbooks or other equivalent design software or methods.</li> <li>Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014</li> </ol>	Ouct Systems),			PROJECT
Equipment Selection), or other equivalent design software or methods. Exception: Use of alternate design temperatures necessary to ensure the system func-				Infinity Residence 4403 Alta Mira I
edacceptable.				La Mesa, CA 91
INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE 2016 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMEI	NT JURISDICTIONS, THIS CHECKLIST IS TO	TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE EN	ND USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.	2016 Cal Green

A. General Applicable codes. All projects shall comply with the 2019 California Building Code (CBC) and/or California Residential Code (CRC), 2019 California Green Building Standards Code (CalGreen), 2019 California Electrical Code (CEC), 2019 California Mechanical Code (CMC), 2019 California Plumbing Code (CPC), 2019 California Fire Code (CFC), 2019 California Building Energy Efficiency Standards (CBEES), and all County of San Diego amendments.

- A. Electrical, Plumbing, and Mechanical
- Exterior lighting. All projects shall comply with the County of San Diego lighting GFCI outlets. Ground Fault Circuit Interrupter (GFCI) outlets are required in bathrooms,
- at kitchen countertops, at laundry and wet bar sinks, in garages, in crawlspaces, in unfinished basements, and outdoors. (CEC 210.8)
- AFCI outlets. Electrical circuits in bedrooms, living rooms, dining rooms, dens, closets, hallways, or similar rooms must be protected by Arc Fault Circuit Interrupters (AFCI). (CEC 210.12)
- Luminaire requirements. Installed luminaires shall meet the efficacy and fixture requirements of CBEES 150.0(k).
- Smoke detectors in building remodels. Smoke detectors are required in each existing 1. Fastener requirements. The number, size, and spacing of fasteners connecting wood sleeping room, outside each separate sleeping area in the immediate vicinity of sleeping rooms, and on each story of a dwelling including basements. Battery-operated detectors are acceptable in existing areas with no construction taking place and in alterations not resulting in removal of interior wall or ceiling finishes and without access via an attic, crawl space, or basement. (CRC R314.3)
- Carbon monoxide detectors in building remodels. Carbon monoxide detectors are required outside each separate sleeping area in the immediate vicinity of sleeping rooms and on each story of a dwelling including basements. Battery-operated detectors are acceptable in existing areas with no construction taking place and in alterations not resulting in removal of interior wall or ceiling finishes and without access via an attic, crawl space, or basement. (CRC R315.3)
- Water heater seismic strapping. Minimum two 3/4-inch-by-24-gauge straps required around water heaters, with 1/4-inch-by-3-inch lag bolts attached directly to framing. Straps shall be at points within upper third and lower third of water heater vertical dimension. Lower connection shall occur minimum 4 inches above controls. (CPC 507.2)
- Gas appliances in garages. Water heaters and heating/cooling equipment capable of igniting flammable vapors shall be placed on minimum 18-inch-high platform unless listing report number provided showing ignition-resistant appliance. (CPC 507.13 and CMC 305.1)
- Impact protection of appliances. Water heaters and heating/cooling equipment subject to vehicular impact shall be protected by bollards or an equivalent measure. (CPC 507.13.1 and CMC 305.11)
- 10. Water closet clearance. Minimum 30-inch-wide by 24-inch-deep clearance required at front of water closets. (CPC 402.5)
- 11. Shower size. Shower compartments shall have minimum area of 1024 square inches and be able to encompass a 30-inch-diameter circle. Shower doors shall have a minimum 22-inch unobstructed width. (CPC 408.5 and CPC 408.6)
- 12. Fireplace appliances. Fireplaces with gas appliances are required to have the flue damper permanently fixed in the open position and fireplaces with LPG appliances are to have no 'pit' or 'sump' configurations. (CMC 303.7.1)
- Chimney clearance. Minimum 2-foot chimney clearance required above building within 10-foot horizontally of chimney. The chimney shall extend minimum 3 feet above highest 9. Cripple walls. Foundation cripple walls shall be framed of studs not less in size than the point where chimney passes through roof. (CRC R1003.9)

### Mechanical Ventilation and Indoor Air Quality (ASHRAE 62.2-2010)

- Transfer air. Ventilation air shall be provided directly from the outdoors and not as transfer air from adjacent dwelling units or other spaces, such as garages, unconditioned crawlspaces, or unconditioned attics. (CBEES 150.0(o))
- Instructions and labeling. Ventilation system controls shall be labeled and the home owner shall be provided with instructions on how to operate the system. (CBEES
- Combustion and solid-fuel burning appliances. Combustion appliances shall be properly vented and air systems shall be designed to prevent back drafting. (CBEES
- Garages. The wall and openings between occupiable spaces and the garage shall be sealed. HVAC systems that include air handlers or return ducts located in garages shall have total air leakage of no more than 6% of total fan flow when measured at 0.1 in. w.c. using California Title 24 or equivalents. (CBEES 150.0(o))
- Minimum filtration. Mechanical systems supplying air to occupiable space through ductwork shall be provided with a filter having a minimum efficiency of MERV 6 or better. (CBEES 150.0(o))
- Air inlets. Air inlets (not exhaust) shall be located away from known contaminants. (CBEES 150.0(o))
- Air moving equipment. Air moving equipment used to meet either the whole-building ventilation requirement or the local ventilation exhaust requirement shall be rated in terms of airflow and sound. (CBEES 150.0(o))
- a. All continuously operating fans shall be rated at a maximum of 1.0 sone. b. Intermittently operated whole-building ventilation fans shall be rated at a maximum of 1.0 sone.
- c. Intermittently operated local exhaust fans shall be rated at maximum of 3.0 sone. d. Remotely located air-moving equipment (mounted outside of habitable spaces) need not meet sound requirements if at least 4 feet of ductwork between fan and intake grill.

### D. Foundation and Underfloor

- Foundation reinforcement. Continuous footings and stem walls shall be provided with a minimum two longitudinal No. 4 bars, one at the top and one at the bottom of the footing. (CRC R403.1.3.3)
- Shear wall foundation support. Shear walls shall be supported by continuous foundations. (CRC 403.1.2)
- Concrete slabs-on-grade. Slabs-on-grade shall be minimum 3-1/2-inches thick. (CRC
- Vapor retarder. A 6-mil polyethylene or approved vapor retarder with joints lapped minimum 6 inches shall be placed between a concrete slab-on-grade and the base course or subgrade. (CRC 506.2.3)
- Anchor bolts and sills. Foundation plates or sills shall be bolted or anchored to the foundation or foundation wall per the following (CRC R403.1.6 and CRC R602.11.1):
- a. Minimum 1/2-inch-diameter steel bolts b. Bolts embedded at least 7 inches into concrete or masonry
- Bolts spaced maximum 6 feet on center
- d. Minimum two bolts per plate/sill piece with one bolt located maximum 12 inches and minimum 7 bolt diameters from each end of each sill plate/piece Minimum 3-inch by 3-inch by 0.299-inch steel plate washer between sill and nut on
- Hold-downs. All hold-downs must be tied in place prior to foundation inspection. Protection of wood against decay. Naturally durable or preservative-treated wood shall
- be provided in the following locations (CRC R317.1): a. All wood in contact with ground, embedded in concrete in direct contact with ground, or embedded in concrete exposed to weather
- Wood joists within 18 inches and wood girders within 12 inches of the exposed ground in crawl spaces shall be of naturally durable or preservative-treated wood c. Wood framing members that rest on concrete or masonry exterior foundation walls and
- are less than 8 inches from exposed earth shall be of naturally durable or preservative-treated wood d. Wood framing, sheathing, and siding on the exterior of the building and having
- clearance less than 6 inches from the exposed ground or less than 2 inches vertically from concrete steps, porch slabs, patio slabs, and similar horizontal surface exposed to weather
- e. Sills and sleepers on concrete or masonry slab in direct contact with ground unless separated from such slab by impervious moisture barrier

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### D. Foundation and Underfloor (Continued)

- f. Ends of wood girders entering masonry or concrete walls with clearances less than 1/2 inch on tops, sides, and ends g. Wood structural members supporting moisture-permeable floors or roofs exposed to weather, such as concrete or masonry slabs, unless separated from such floors or
- roofs by an impervious moisture barrier h. Wood furring strips or other wood framing members attached directly to interior of exterior concrete or masonry walls below grade except where vapor retarder applied between wall and furring strips or framing members
- 8. Underfloor ventilation. Underfloor areas shall have ventilation openings through foundation walls or exterior walls, with minimum net area of ventilation openings of 1
- square foot for each 150 square feet of underfloor area. On such ventilating opening shall be within 3 feet of each comer of the building. (CRC R408.1) 9. Underfloor access. Underfloor areas shall be provided with a minimum 18-inch by 24-inch access opening. (CRC R408.4)

### E. Wood Framing

- members/elements shall not be less than that set forth in CRC Table R602.3(1). (CRC R502.9, CRC R602.3, and CRC R802.2)
- 2. Stud size, height, and spacing. The size, height, and spacing of studs shall be in accordance with CRC Table R602.3(5). (CRC R602.3.1) Sill plate. Studs shall have full bearing on nominal 2-inch thick or larger sill plate with
- width at least equal to stud width. (CRC R602.3.4) 4. Bearing studs. Where joists, trusses, or rafters are spaced more than 16 inches on
- center and the bearing studs below are spaced 24 inches on center, such members shall bear within 5 inches of the studs beneath. (CRC R602.3.3) 5. Drilling and notching of studs. Any stud in an exterior wall or bearing partition may be
- cut or notched to a depth not exceeding 25% of its width. Studs in nonbearing partitions may be notched to a depth not to exceed 40% of a single stud width. Any stud may be bored or drilled, provided the diameter of the resulting hole is no more than 60% of the stud width, the edge of the hole is no more than 5/8 inch to the edge of the stud, and the hole is not located in the same section as a cut or notch. Studs located in exterior wall or bearing partitions drilled over 40% and up to 60% shall also be doubled with no more than two successive studs bored. (CRC R602.6)
- Top plate. Wood stud walls shall be capped with a double top plate installed to provide overlapping at corners and at intersections with other partitions. End joints in double top plates shall be offset at least 24 inches. Joints in plates need not occur over studs. Plates shall be minimum nominal 2 inches thick and have width at least equal to width of studs. (CRC R602.3.2)
- 7. Top plate splices. Top plate lap splices shall be face-nailed with minimum 8 16d nails on each side of splice. (CRC R602.10.8.1)
- 8. Drilling and notching of top plate. When piping or ductwork is placed in or partly in an exterior wall or interior load-bearing wall, necessitating cutting, drilling, or notching of the top plate by more than 50% of its width, a galvanized metal tie not less than 0.054-inch thick and 1-1/2-inches wide shall be fastened across and to the plate at each side of the opening with not less than 8 10d nails having a minimum length of 1-1/2 inches at each side or equivalent. The metal tie must extend minimum 6 inches past the opening. (CRC
- studding above. Cripple walls more than 4 feet in height shall have studs sized as required for an additional story. Cripple walls with stud height less than 14 inches shall be sheathed on at least one side with a wood structural panel fastened to both the top and bottom plates in accordance with Table R602.3(1), or the cripple walls shall be constructed of solid blocking. Cripple walls shall be supported on continuous oundations. (CRC R602.9)
- 10. Wall bracing. Buildings shall be braced in accordance with the methods allowed per CRC R602.10.2, CRC R602.10.4, and/or CRC R602.10.5.
- 11. Braced wall line spacing. Spacing between braced wall lines shall not exceed 20 feet or alternate provisions of CRC R602.10.1.3.
- 12. Shear wall cumulative length. The cumulative length of shear walls within each braced wall line shall meet the provisions of CRC Table R602.10.3(1) for wind loads and CRC Table R602.10.3(2) for seismic loads. (CRC R602.10.1.1)
- 13. Shear wall spacing. Shear walls shall be located not more than 25 feet on center. (CRC R602.10.2.2) 14. Shear wall offset. Shear walls may be offset out-of-plan not more than 4 feet from the
- designated braced wall line and not more than 8 feet from any other offset wall considered part of the same braced wall line. (CRC R602.10.1.2) 15. Shear wall location. Shear walls shall be located at the ends of each braced wall line or
- meet the alternate provisions of CRC R602.10.2.2. 16. Individual shear wall length. Shear walls shall meet minimum length requirements of
- CRC R602.10.6.5.1 17. Cripple wall bracing. Cripple walls shall be braced per CRC R602.10.11.
- 18. Shear wall and diaphragm nailing. All shear walls, roof diaphragms, and floor diaphragms shall be nailed to supporting construction per CRC Table R602.3(1). (CRC R604.3)
- 19. Shear wall joints. All vertical joints in shear wall sheathing shall occur over, and be fastened to, common studs. Horizontal joints in shear walls shall occur over, and be fastened to, minimum 1-1/2-inch-thick blocking. (CRC R602.10.10)
- 20. Framing over openings. Headers, double joists, or trusses of adequate size to transfer loads to vertical members shall be provided over window and door openings in load-bearing walls and partitions. (CBC 2304.3.2)
- 21. Joists under bearing partitions. Joists under parallel bearing partitions shall be of adequate size to support the load. Double joists, sized to adequately support the load, that are separated to permit the installation of piping or vents shall be full-depth solid-blocked with minimum 2-inch nominal lumber spaced at maximum 4 feet on center. Bearing partitions perpendicular to joists shall not be offset from supporting girders, walls, or partitions more than the joist depth unless such joists are of sufficient size to carry the additional load. (CRC R502.4)
- 22. Joists above or below shear walls. Where joists are perpendicular to a shear wall above or below, a rim joist, band joist, or blocking shall be provided along the entire length of the shear wall. Where joists are parallel to a shear wall above or below, a rim joist, end joist, or other parallel framing shall be provided directly above and/or below the shear wall. Where a parallel framing member cannot be located directly above and/or below the shear wall, full-depth blocking at 16-inch spacing shall be provided between the parallel framing members to each side of the shear wall. (CRC R602.10.8)
- 23. Floor member bearing. The ends of each floor joist, beam, or girder shall have minimum 1-1/2 inches of bearing on wood or metal and minimum 3 inches of bearing on masonry or concrete except where supported on a 1-inch-by-4-inch ribbon strip and nailed to the adjoining stud or by the use of approved joist hangers. (CRC R502.6)
- 24. Floor joist lap. Floor joists framing opposite sides over a bearing support shall lap minimum 3 inches and shall be nailed together within minimum 3 10d face nails. A wood or metal splice with strength equal to or greater than that provided by the lap is permitted. (CRC R502.6.1)
- 25. Floor joist-to-girder support. Floor joists framing into the side of a wood girder shall be supported by approved framing anchors or on ledger strips minimum nominal 2 inches by 2 inches. (CRC R502.6.2)
- 26. Floor joist lateral restraint. Floor joists shall be supported laterally at ends and each intermediate support by minimum 2-inch full-depth blocking, by attachment to full-depth header, band joist, or rim joist, to an adjoining stud, or shall be otherwise provided with lateral support to prevent rotation. (CRC R502.7)
- 27. Floor joist bridging. Floor joists exceeding nominal 2 inches by 12 inches shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch strip nailed across the bottom of joists perpendicular to joists at maximum 8-foot intervals. (CRC R502.7.1)
- 28. Framing of floor openings. Openings in floor framing shall be framed with a header and trimmer joists. When the header joist span does not exceed 4 feet, the header joist may be a single member the same size as the floor joist. Single trimmer joists may be used to carry a single header joist located within 3 feet of the trimmer joist bearing. When the header joist span exceeds 4 feet, the trimmer joists and header joist shall be doubled and of sufficient cross section to support the floor joists framing into the header. Approved hangers shall be used for the header-joist-to-trimmer-joist connections when the header joist span exceeds 6 feet. Tail joists over 12 feet long shall be supported at the header by framing anchors or on ledger strips minimum 2 inches by 2 inches. (CRC R502.10)

### E. Wood Framing (Continued)

- 29. Girders. Girders for single-story construction or girders supporting loads from a single floor shall not be less than 4 inches by 6 inches for spans 6 feet or less, provided that girders are spaced not more than 8 feet on center. Other girders shall be designed to support the loads specified in the CBC. Girder end joints shall occur over supports. When a girder is spliced over a support, an adequate tie shall be provided. The ends of beams or girders supported on masonry or concrete shall not have less than 3 inches of bearing. (CBC 2308.7)
- 30. Ridges, hips, and valleys. Rafters shall be framed to a ridge board or to each other with a gusset plate as a tie. Ridge boards shall be minimum 1-inch nominal thickness and not less in depth than the cut end of the rafter. At all valley and hips, there shall be a valley or hip rafter not less than 2-inch nominal thickness and not less in depth than the cut end of the rafter. Hip and valley rafters shall be supported at the ridge by a brace to a bearing partition or be designed to carry and distribute the specific load at that point. Where the roof pitch is less than 3:12 slope (25% gradient), structural members that support rafters and ceilings joists, such as ridges, hips, and valleys, shall be designed as beams. (CRC R802.3)
- 31. Ceiling joist and rafter connections. Ceiling joists and rafters shall be nailed to each other per CRC Table R802.5.1(9), and the rafter shall be nailed to the wall top plate per CRC Table R602.3(1). Ceiling joists shall be continuous or securely joined per CRC Table R802.5.1(9) where they meet over interior partitions and are nailed to adjacent rafters to provide a continuous tie across the building when such joists are parallel to rafters. Where ceiling joists are not connected to the rafters at the wall top plate, joists connected higher in the attic shall be installed as rafter ties, or rafter ties shall be installed to provide a continuous tie. Where ceiling joists are not parallel to rafters, rafter ties shall be installed. Rafter ties shall be minimum 2 inches by 4 inches nominal, installed per CRC Table R802.5.1(9), or connections of equivalent capacities shall be provided. Where ceilings joists or rafter ties are not provided, the ridge formed by these rafters
- shall be supported by a wall or engineer-designed girder. (CRC R802.3.1) 32. Ceiling joists lapped. Ends of ceiling joists shall be lapped minimum 3 inches or butted over bearing partitions or beams and toenailed to the bearing element. Where ceiling joists provide resistance to rafter thrust, lapped joists shall be nailed together per CRC Table R602.3(1) and butted joists shall be tied together in a manner to resist such thrust. (CRC R802.3.2)
- 33. Collar ties. Collar ties or ridge straps to resist wind uplift shall be connected in the upper third of the attic space. Collar ties shall be a minimum 1 inch by 4 inches nominal and spaced at maximum 4 feet on center. (CRC R802.3.1)
- 34. Purlins. Purlins installed to reduce the span of rafters shall be sized not less than the required size of the rafters they support. Purlins shall be continuous and shall be supported by 2-inch-by-4-inch nominal braces installed to bearing walls at a minimum 45-degree slope from horizontal. The braces shall be spaced maximum 4 feet on center with a maximum 8-foot unbraced length. (CRC R802.5.1)
- 35. Roof/ceiling member bearing. The ends of each rafter or ceiling joist shall have not less than 1-1/2 inches of bearing on wood or metal and not less than 3 inches of bearing on masonry or concrete. (CRC R802.6)
- 36. Roof/ceiling member lateral support. Roof framing members and ceiling joists with a nominal depth-to-thickness ratio exceeding 5:1 shall be provided with lateral support at points of bearing to prevent rotation. (CRC R802.8)
- 37. Roof/celling bridging. Rafters and ceiling joists with a nominal depth-to-thickness ratio exceeding 6:1 shall be supported laterally by solid blocking, diagonal bridging (wood or metal), or a continuous 1-inch-by-3-inch wood strip nailed across the rafters or ceiling joists at maximum 8-foot intervals. (CRC R802.8.1)
- 38. Framing of roof/ceiling openings. Openings in roof and ceiling framing shall be framed with a header and trimmer joists. When the header joist span does not exceed 4 feet, the header joist may be a single member the same size as the ceiling joist or rafter. Single trimmer joists may be used to carry a single header joist located within 3 feet of the trimmer joist bearing. When the header joist span exceeds 4 feet, the trimmer joists and header joist shall be doubled and of sufficient cross section to support the ceiling joists or rafters framing into the header. Approved hangers shall be used for the header-joist-to-trimmer-joist connections when the header joist span exceeds 6 feet. Tail joists over 12 feet long shall be supported at the header by framing anchors or on ledger strips minimum 2 inches by 2 inches. (CRC R502.10)
- 39. Roof framing above shear walls. Rafters or roof trusses shall be connected to top plates of shear walls with blocking between the rafters or trusses. (CRC R602.10.8) 40. Roof diaphragm under fill framing. Roof plywood shall be continuous under California G. Roofing and Weatherproofing fill framing.
- 41. Roof diaphragm at ridges. Minimum 2-inch nominal blocking required for roof diaphragm nailing at ridges
- 42. Blocking of roof trusses. Minimum 2-inch nominal blocking required between trusses at ridge lines and at points of bearing at exterior walls.
- 43. Truss clearance. Minimum 1/2-inch clearance required between top plates of interior non-bearing partitions and bottom chords of trusses.
- 44. Drilling, cutting, and notching of roof/floor framing. Notches in solid lumber joists, rafters, blocking, and beams shall not exceed one-sixth the member depth, shall be not longer than one-third the member depth, and shall not be located in the middle one-third of the span. Notches at member ends shall not exceed one-fourth the member depth. The tension side of members 4 inches or greater in nominal thickness shall not be notched except at member ends. The diameter of holes bored or cut into members shall not exceed one-third the member depth. Holes shall not be closer than 2 inches to the top or bottom of the member or to any other hole located in the member. Where the member is also notched, the hole shall not be closer than 2 inches to the notch. (CRC R502.8.1)
- 45. Exterior landings, decks, balconies, and stairs. Such elements shall be positively anchored to the primary structure to resist both vertical and lateral forces or shall be designed to be self-supporting. Attachment shall not be accomplished by use of toenails or nails subject to withdrawal. (CRC R311.3) 46. Fireblocking. Fireblocking shall be provided in the following locations (CRC R302.11
- and CRC R1003.19): a. In concealed spaces of stud walls and partitions, including furred spaces, and parallel
- rows of studs or staggered studs, as follows: i. Vertically at the ceiling and floor levels
- Horizontally at intervals not exceeding 10 feet
- b. At all interconnections between concealed vertical and horizontal spaces such as
- occur at soffits, drop ceilings, and cove ceilings c. In concealed spaces between stair stringers at the top and bottom of the run
- d. At openings around vents, pipes, ducts, cables and wires at ceiling and floor level, with an approved material to resist the free passage of flame and products of combustion
- e. At chimneys and fireplaces per item E.49 f. Cornices of a two-family dwelling at the line of dwelling-unit separation
- 47. Fireblocking materials. Except as otherwise specified in items E.48 and E.49,
- fireblocking shall consist of the following materials with the integrity maintained (CRC R302.11.1):
- a. Two-inch nominal lumber
- b. Two thicknesses of one-inch nominal lumber with broken lap joints
- c. One thickness of 23/32-inch wood structural panel with joints backed by 23/32-inch wood structural panel
- d. One thickness of 3/4-inch particleboard with joints backed by 3/4-inch particleboard
- e. 1/2-inch gypsum board f. 1/4-inch cement-based millboard
- g. Batts or blankets of mineral or glass fiber of other approved materials installed in such a manner as to be securely retained in place. Batts or blankets of mineral or glass fiber or other approved non-rigid materials shall be permitted for compliance with the 10-foot horizontal fireblocking in walls constructed using parallel rows of studs or staggered studs. Unfaced fiberglass batt insulation used as fireblocking shall fill the entire cross-section of the wall cavity to a minimum height of 16 inches measured vertically. When piping, conduit, or similar obstructions are encountered, the insulation shall be packed tightly around the obstruction. Loose-fill insulation material shall not be used as a fireblock unless specifically tested in the form and manner intended for use to demonstrate its ability to remain in place and to retard the spread of fire and hot gases.
- 48. Fireblocking at openings around vents, pipes, ducts, cables, and wires at celling and floor level. Such openings shall be fireblocked with an approved material to resist the free passage of flame and products of combustion. (CRC R302.11)

### E. Wood Framing (Continued)

- 49. Fireblocking of chimneys and fireplaces. All spaces between chimneys and floors and ceilings through which chimneys pass shall be fireblocked with noncombustible material securely fastened in place. The fireblocking of spaces between chimneys and wood joists, beams, or headers shall be self-supporting or be placed on strips of metal or metal lath laid across the spaces between combustible material and the chimney. (CRC R1003.19)
- 50. Draftstopping. In combustible construction where there is usable space both above and below the concealed space of a floor/ceiling assembly, draftstops shall be installed so that the area of the concealed space does not exceed 1000 square feet. Draftstopping shall divide the concealed space into approximately equal areas. Where the assembly is enclosed by a floor membrane above and a ceiling membrane below, draftstopping shall be provided in floor/ceiling assemblies under the following circumstances (CRC R302.12):
- a. Ceiling is suspended under the floor framing
- b. Floor framing is constructed of truss-type open-web or perforated members 51. Draftstopping materials. Draftstopping shall not be less than 1/2-inch gypsum board, 3/8-inch wood structural panels, or other approved materials adequately supported. Draftstopping shall be installed parallel to the floor framing members unless otherwise approved by the building official. The integrity of draftstops shall be maintained. (CRC R302.12.1)
- 52. Combustible insulation clearance. Combustible insulation shall be separated minimum 3 inches from recessed luminaires, fan motors, and other heat-producing devices. (CRC R302.14)

### F. General Material Specifications

- Lumber. All joists, rafters, beams, and posts 2-inches to 4-inches thick shall be No. 2 grade Douglas Fir-Larch or better. All posts and beams 5 inches and thicker shall be No. 1 grade Douglas Fir-Larch or better. Studs not more than 8 feet long shall be stud-grade Douglas Fir-Larch or better when supporting not more than one floor, roof, and ceiling. Studs longer than 8 feet shall be No. 2 grade Douglas Fir-Larch or better.
- 2. Concrete. Concrete shall have a minimum compressive strength of 2,500 psi at 28 days and shall consist of 1 part cement, 3 parts sand, 4 parts 1-inch maximum size rock, and not more than 7-1/2 gallons of water per sack of cement. (CRC R402.2)
- 3. Mortar. Mortar used in construction of masonry walls, foundation walls, and retaining walls shall conform to ASTM C 270 and shall consist of 1 part portland cement, 2-1/4 to 3 parts sand, and 1/4 to 1/2 part hydrated lime. (CBC 2103.2)
- 4. Grout. Grout shall conform to ASTM C 476 and shall consist of 1 part portland cement, 1/10 part hydrated lime, 2-1/4 to 3 parts sand, and 1 to 2 parts gravel. Grout shall attain a minimum compressive strength of 2,000 psi at 28 days. (CBC 2103.3)
- Masonry. Masonry units shall comply with ASTM C 90 for load-bearing concrete masonry units. (CBC 2103.1)
- 6. Reinforcing steel. Reinforcing steel used in construction of reinforced masonry or
- concrete structures shall be deformed and comply with ASTM A 615. (CBC 2103.4) 7. Structural steel. Steel used as structural shapes such as wide-flange sections, channels, plates, and angles shall comply with ASTM A36. Pipe columns shall comply with ASTM A53. Structural tubes shall comply with ASTM A500, Grade B.
- 8. Fasteners for preservative-treated wood. Fasteners for preservative-treated and fire-retardant-treated wood - including nuts and washers -- shall be of hot dipped zinc-coated galvanized steel, stainless steel, silicon bronze, or copper. (CRC R317.3.1) Exception: 1/2-inch diameter or greater steel bolts
- Exception: Fasteners other than nails and timber rivets may be of mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum Exception: Plain carbon steel fasteners acceptable in SBX/DOT and zinc borate
- preservative-treated wood in an interior, dry environment Fasteners for fire-retardant-treated wood. Fasteners for fire-retardant-treated wood used in exterior applications or wet or damp locations shall be of hot dipped zinc-coated

galvanized steel, stainless steel, silicon bronze, or copper. (CRC R317.3.3)

- 1. Roof covering. All roof covering shall be installed per applicable requirements of CBC 1507. Roof coverings shall be at least Class A rated in accordance with ASTM E 108 or UL 790, which shall include coverings of slate, clay or concrete roof tile, exposed concrete roof deck, ferrous or copper shingles or sheets. (County Building Code 92.1.1505.1)
- 2. Roof flashing. Flashing shall be installed at wall and roof intersections, at gutters, wherever there is a change in roof slope or direction, and around roof openings. Where flashing is of metal, the metal shall be corrosion-resistant with a thickness of not less than 0.019 inch (No. 26 galvanized sheet). (CRC R903.2.1)
- Crickets and saddles. A cricket or saddle shall be installed on the ridge side of any chimney or penetration more than 30 inches wide as measured perpendicular to the slope. Cricket or saddle covering shall be sheet metal or the same material as the roof covering. (CRC R903.2.2)
- Water-resistive barrier. A minimum of one layer of No. 15 asphalt felt shall be attached to studs or sheathing of all exterior walls. Such felt or material shall be applied horizontally, with the upper layer lapped over the lower layer minimum 2 inches. Where joints occur, felt shall be lapped minimum 6 inches. The felt shall be continuous to the top of walls and terminated at penetrations and building appendages in a manner to maintain a weather-resistant exterior wall envelope. (CRC R703.2)
- Wall flashing. Approved corrosion-resistant flashing shall be applied shingle fashion at the following locations to prevent entry of water into the wall cavity or penetration of water to the building structural framing components (CRC R703.8): a. Exterior door and window openings, extending to the surface of the exterior wall finish
- or to the water-resistive barrier for subsequent drainage b. At the intersection of chimneys or other masonry construction with frame or stucco
- walls, with projecting lips on both sides under stucco copings c. Under and at the ends of masonry, wood, or metal copings and sills
- d. Continuously above all projecting wood trim
- e. Where exterior porches, decks, or stairs attach to a wall or floor assembly of wood-frame construction
- f. At wall and roof intersections g. At built-in gutters
- 6. Dampproofing. Dampproofing materials for foundation walls enclosing usable space below grade shall be installed on the exterior surface of the wall, and shall extend from the top of the footing to finished grade. (CRC R406.1)
- 7. Weep screed. A minimum 0.019-inch (No. 26 galvanized sheet gage), corrosion-resistant weep screed or plastic weep screed with a minimum vertical attachment flange of 3-1/2 inches shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 92. The weep screed shall be placed a minimum 4 inches above the earth or 2 inches above paved areas and shall be of a type allowing trapped water to drain to the exterior of the building. (CRC R703.7.2.1)

### H. Grading and soils

1. Grading permit. Grading permit required if volume of earth moved exceeds 200 cubic yards or if any cuts or fills exceed 8 feet in height/depth. (County Grading Ordinance 202) 2. Compaction report. Compaction report required for fill material 12 inches or more in depth. (CBC 1803.5.8)

### I. Green Building Standards Code (CALGreen) Requirements

Applicability. CalGreen residential mandatory measures shall apply to every newly constructed building or structure and within any addition or alteration increasing a building's conditioned area, volume, or size. (CalGreen 101.3, CalGreen 301.1.1) Exception: All residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures per CalGreen 301.1.1 and CalGreen 4.303.1

### I. (CALGreen) Requirements (Continued)

Water conserving plumbing fixtures and fittings. Plumbing fixtures and fittings shall comply with the following per CalGreen 4.303.1: a. Water closets: Maximum 1.28 gallons per flush

b. Urinals: Maximum 0.5 gallons per flush

- c. Single showerheads: Maximum flow rate of 2.0 gallons per minute at 80 psi d. Multiple showerheads serving one shower: Maximum combined flow rate of 2.0 gallons per minute at 80 psi
- e. Lavatory faucets: Maximum flow rate of 1.2 gallons per minute at 60 psi, minimum flow rate of 0.8 gallons per minute at 20 psi
- Kitchen faucets: Maximum flow rate of 1.8 gallons per minute at 60 psi Exception: Temporary increase allowed to maximum 2.2 gallons per minute at 60 psi if faucet defaults back to maximum 1.8 gallons per minute at 60 psi
- 3. Irrigation controllers. Automatic irrigation system controllers for landscaping shall comply with the following (CalGreen 4.304.1): a. Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change. b. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are
- not required to have rain sensor input **Joints and openings.** Openings in the building envelope separating conditioned space from unconditioned space needed to accommodate utility and other penetrations must be sealed in compliance with the California Energy Code. (CALGreen 4.406.1) Exception: Annular spaces around pipes, electric cables, conduits or other openings in
- plates at exterior walls shall be protected against the passage of rodents by closing such opening with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency. 5. Construction waste reduction, disposal, and recycling. Reduce and/or salvage for
- reuse a minimum of 65 percent of the nonhazardous construction and demolition debris. (CALGreen 4.408.1) Exception: Excavated soil and land-clearing debris.
- Exception: Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite The County of San Diego, Department of Public Works, Construction & Demolition
- (C&D) Facilities Guide is online at: http://www.sdcounty.ca.gov/dpw/recycling/Files/Construction\_Guide\_SJ8\_Pgs\_1-27.pdf. Construction waste management plan. A construction waste management plan shall be prepared and available on site during construction. Documentation demonstrating compliance with the plan shall be accessible during construction for the enforcing
- agency. (CALGreen 4.408.2) The plan: Identify the construction and demolition waste materials to be diverted from disposal by recycling, reuse on the project or salvage for future use or sale b. Specify if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream)
- c. Identify diversion facilities where the construction and demolition waste materials will d. Identify construction methods employed to reduce the amount of construction and
- demolition waste generated e. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both Operation and maintenance manual. Prior to final inspection, a manual, compact disc,
- web-based reference, or other acceptable media which includes all of the following shall e placed in the building (CALGreen 4.410.1): a. Directions to owner or occupant that manual shall remain with the building throughout the life cycle of the structure.
- b. Operation and maintenance instructions for the following: i. Equipment and appliances, including water-saving devices and systems, HVAC system, photovoltaic systems, water-heating systems and other major appliances and
- equipment. ii. Roof and yard drainage, including gutters and downspouts. ili. Space conditioning systems, including condensers and air filters. iv. Landscape irrigation systems.
- Water reuse systems
- c. Information from local utility, water, and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations. d. Public transportation and/or carpool options available in the area. e. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range.
- f. Information about water-conserving landscape and irrigation design and controllers which conserve water g. Instructions for maintaining gutters and downspouts and the importance of diverting
- water at least 5 feet away from the foundation. h. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc.
- Information about state solar energy and incentive programs available. A copy of all special inspection verifications required by the enforcing agency or code. 8. Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation or during storage on the construction site and until final startup of the heating and cooling equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust or debris
- which may collect in the system. (CALGreen 4.504.1) Adhesives, sealants, caulks, paints, and coatings pollutant control. Adhesives (including carpet adhesives), sealants, caulks, paints, and coatings shall comply with VOC limits per CALGreen 4.504.2. Verification of compliance shall be provided at the
- request of the enforcing agency. (CALGreen 4.504.2.1) 10. Carpet systems. All carpet installed in the building interior shall meet the testing and product requirements of one of the following (CALGreen 4.504.3): a. Carpet and Rug Institute's Green Label Plus Program (all carpet cushion must meet the requirements of this program).
- b. California Department of Public Health Standard Practice for the testing of VOCs (Specification 01350)
- c. NSF/ANSI 140 at the Gold level. d. Scientific Certifications Systems Indoor Advantage™ Gold.
- 11. Resillent flooring systems. At least 80 percent of the floor area receiving resilient flooring shall comply with one of or more of the following (CALGreen 4.504.4): a. VOC emission limits defined in the Collaborative for High Performance Schools (CHPS) High Performance Products Database
- b. Products compliant with CHPS criteria certified under the Greenguard Children & Schools program c. Certification under the Resilient Floor Covering Institute (RFCI) FloorScore program
- d. Meet the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.1, February 2010 (also known as Specification 01350)
- 12. Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.) by or before the dates specified in those sections, as shown in CalGreen Table 4.504.5. The following limits are in parts per million (CALGreen 4.504.5):
- a. Hardwood plywood veneer core 0.05 b. Hardwood plywood composite core 0.05 Particle board d. Medium-density fiberboard (MDF) 0.11 e. Thin MDF (5/16 inch or less) 0.13

content shall be verified in compliance with the following (CALGreen 4.505.3): a. Moisture content shall be determined with either a probe-type or contact-type moisture meter. b. Moisture readings shall be taken at a point 2 feet to 4 feet from the grade stamped end of each piece to be verified.

I. (CALGreen) Requirements (Continued)

At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. Insulation products which are visibly wet or have high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities.

13. Moisture content of building materials. Building materials with visible signs of

when the framing members exceed 19 percent moisture content. Moisture

water damage shall not be installed. Wall and floor framing shall not be enclosed

- recommendations prior to enclosure. 14. Bathrooms with a bathtub and/or shower shall be mechanically ventilated per the following (CalGreen 4.506.1):
- a. Fans shall be ENERGY STAR compliant and ducted to terminate outside

Wet-applied insulation products shall follow the manufacturers' drying

- Unless functioning as a component of a whole-house ventilation system, fans shall have humidity controls capable of adjustment - manually or automatically -- between a relative humidity range of 50% to 80%.
- Heating and air-conditioning system design. Heating and air-conditioning systems shall be sized, designed, and have their equipment selected using the following methods (CALGreen 4.507.2):
- a. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J, ASHRAE handbooks, or other equivalent design software or methods.
- b. Duct systems are sized according to ANSI/ACCA 1 Manual D 2009, ASHRAE handbooks, or other equivalent design software or methods.
- c. Select heating and cooling equipment according to ACCA 36-S Manual S or other equivalent design software or methods

### TABLE R602.3(1) FASTENER SCHEDULE FOR STRUCTURAL MEMBERS

1E M	pescreption of 6 valance clevents		HUMBER AND YERE OF FASTENESS	SPACING AND	LOCATION	
1	When a Translation of Marcola Party of Ma		4-8d bes (2 <sup>1</sup> / <sub>1</sub> " ±0.113") or 3-8d commut (2 <sup>1</sup> / <sub>1</sub> " ±0.131"); or			
1	blocking between optiling joints in rathers in ing	Paore	3-10d box (3" × 0.124"); ar 3-3" × 0.131" nails 4-8d hos (2"/," × 0.113"); or	Then		
1	Celling Jok wat in to p plate		3-66 commun (21/, * ×0.131 °); or 3-100 box (3*×0.128 °); or 3-3° × 0.131* nulls	Per joint.	toe mill	
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1	Colling Joist attached toparallel rafler (heel join (see Sections K 802.3.) and R802.3.2 and Tab R802.5.1(9))			Farc nall		
İ	Collar He to rafter, face nail or 17, *x20 ga eld, rafter	ge wrapio	4-10d box (3"×0.128"); or 3-10d common (3"×0.148"); or 4-3 "×0.131" table.	Face nail e	ic hindler	
1	Rafiles or roof music platz		3-16d hos Aalis (37, "x 0.135"); or 3-10d common nails (3" x 0.148"); or	2 tue mails on one s to opposite sate of	ide and 1 seems reach rafter or	
+			4+106 box (3*× 0.128"); or 4-3*×0131* sale 4-164 (3'/, *× 0.135*'; or 3-108 commen (3'/, *× 0.148"); or 4-106 box (2*× 0.128"); or	Brank,		
	Roof rafiers ionidge, valley or hip rafiers or noo to minimum 2 <sup>+</sup> ridge beam	toof rafters corridge, valley or hip-rafters or roof rafter to eminimize $\Sigma^{\rm c}$ edge beam		Toe r Entir		
-		-	3-10d br 113*× 0.138"); or 3-3*× 0.131* nalls Test common (37,5*× 0.162*)	74*****	ace Bail	
1	Stud ic acud (1005 at braced -eall panels)		10d bila (3" × 0.128"); or 3 " × 0.121" naila	lh*ne i	02423154	
1	Stud to stud and abatting studs at intersecting w ( at braced wall papers)	ell corners	16d buls(3 <sup>7</sup> / <sub>2</sub> *x0.135 <sup>°</sup> ), or 3 <sup>*</sup> × 0.131 <sup>°</sup> nails 16d common (3 <sup>7</sup> / <sub>2</sub> *x0.162 <sup>°</sup> )	12"ac 1 16"ac 1	sorial	
Ì	Built-up Resder ( $2^{\sigma}$ to $2^{\sigma}$ Resder with $V_{j}^{\sigma}$ space	0	16d costman (31, * × 0.162*) 16d box (31, * × 0.135*)	14°e.c cache 12°e.c cache		
l	Costi-moss header to stud		5-8d hum (2 <sup>1</sup> / <sub>2</sub> " × 0.113"), or 4-8d common (2 <sup>7</sup> / <sub>2</sub> " × 0.131"); or	Toe	uil	
+	Familian Lotari alian		4-10d1ios(3*x0.129*) (fid centures(3%*x0.162*)	1610.0.5	COUNTRY	
ł	Fappine total place		10d hox (3 * x 0,128* kur 3* x 0 131* nalis 8-16d commun (37,* x 0,162*): 0/	12" n.c. 5	beau musici)	
ł	Double top plate splice, for SDC's A-D <sub>2</sub> with sci braced wall interspecting < 25 <sup>o</sup> Oscible top plate splice SDCs D <sub>2</sub> D <sub>1</sub> , int D <sub>2</sub> , and		12-16d box (3 <sup>1</sup> / <sub>2</sub> × 0.135° k.or 12-10d box (3 <sup>+</sup> × 0.128°);or 12-3 <sup>+</sup> × 0.131 <sup>+</sup> sauls 12-1ed (3 <sup>1</sup> / <sub>2</sub> * × 0.135°)	Face nails in each a (acialmum 24" tap cach side of ond (a)	spillion for gtb	
) Else	HEALT FOR ADDRESS 25		WEEN AND TYPE OF FASTENERS *	MP ACTIVICATI	O LOCA TION	
4	Bottom plate to joint, rim joint, band joint or	16d care	man (3'/,"×0.152") (3'/,"×0.135"); or	16°o.c.	fice nail	
-	hincking (nor at braced well panels)	3*=0.13	11" nails x 13 7," x 0,13 5"k dx	3 each 16"	face nail	
5	B-strom plase to joint, rim joint, hand joka or Nocifying (as broad well provel)	2-16d co 4-3" × 0.	winneen (3 <sup>17</sup> ),*×0.162 ");or 131 ° ∩mib	2 cack 16 *	o.c. face call	
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7	Top plotes laps at corners and intervession t	3-100 box (3" x 0.128") or 2-160 common (3", "x 0.162"), or 3-3" x 0.131" satts 3-84 box (2", "x 0.113"); or		Face nail		
-	1" best e to vash at acia nd platz	2-8d common (2.%," x 0.131."); ex 2-108 box (3." x 0.128."); or 2 stables 1.%,"		Pace nal I		
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2	$1^{\prime\prime}\times1^{\prime\prime}$ and wide $\epsilon$ sheathing to each bearing	3-10,1 ho 3 staples, Wider the 4 8dbox	Rd ben $(2^{2}h_{1}^{-n} \neq 0.113^{-1})$ ; for Rd containin $(2^{2}h_{1}^{-n} \approx 0.31^{-1})$ ; sur Rd ben $(2^{2}h_{1}^{-n} \approx 0.32^{-1})$ ; for raples, $1^{2}h_{1}^{-n}$ ; for raples, $1^{2}h_{1}^{-n}$ ; ref (13.7); or Rd bos $(2^{2}h_{1}^{-n} \neq 0.13^{-1})$ ; or		Piaze nali	
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2	Rim jositi, band joise or b'inching to still or top plate (roof geplacitions whil)	Hil comm 10d box ( 3" x 0.13		0.000	toe mail toe naul	
-	$1^{\rm o}\times6^{\rm o}$ subfloor or less to each juint	3-8d box 2-8d com 3-10d bo	2 <sup>27</sup> / ** 0.111 ") ce mos (2 <sup>7</sup> / ** 0.131 ") or * (3 <sup>-1</sup> * 0.128 ") co 1° cmes, 16 gs., 1 <sup>9</sup> / * long	Fea	i nail	
EN	DE ROMMA ON BUILDING STERIOULS		BER AND TYPE OF FASTENER***	SPAC910 AN	D LOCATION	
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3	1 7/, "Shushungi celhylaareRikeArsmit Sheathling 7/g" arroreturs. cellakusie Tiherboareturbudhung	1 V, " gala digmeter, dismeter, 1 V, " gala	or 1 " crown staple 16 gs., 11," long aroved roofing nall, staple galvanized.	3	6	
12	1 <sup>1</sup> / <sub>1</sub> <sup>2</sup> struct-anal cells-lose office-fo-smel sheathling <sup>17</sup> / <sub>2</sub> <sup>2</sup> struct-anal cellulose	1 V, ante discussor discussor discussor discussor discussor 1 V, galv 1 V, and 1 V,	or 1* prown staple 16 gs., 17,* long ancred roofing nall, staple golvanized 177,* screws, Type W or 5 mirred roofing sci2, staple golvanized.	3		
12 13 14 15	<sup>1</sup> / <sub>1</sub> <sup>2</sup> structural cethologic file. Asset sheathing <sup>1</sup> / <sub>1</sub> <sup>2</sup> structure encodulation file rhouse sheathing <sup>1</sup> / <sub>2</sub> <sup>2</sup> go peanscheathing <sup>4</sup> <sup>2</sup> / <sub>2</sub> <sup>2</sup> go peanscheathing <sup>4</sup> <sup>3</sup> / <sub>4</sub> go peanscheathing <sup>4</sup> Wied structured g	1.9," gale diameter, 1.9," gal- diameter, 1.9," gale 1.9," gale 1.9," gale 1.9," gale 1.9," gale 1.9," tong 1.9," tong and a cont	or 1° crown staple 16 gs., 17,* long anized moding null, staple gale anizoit, 17,* success, Type W or 5 anized nord og sull, staple galeanized, 17,* success, Type W or 5 binter subflace undertained for 5	7	7	
31 32 33 33 33 33 35 35 56 57	<sup>1</sup> / <sub>2</sub> <sup>-</sup> structural cethologic file. Ansmi schenbing <sup>10</sup> / <sub>2</sub> <sup>-</sup> arrors was cethologic file riboard sheathing <sup>11</sup> / <sub>2</sub> <sup>-</sup> go pean-sheathing <sup>4</sup> <sup>11</sup> / <sub>2</sub> <sup>-</sup> go pean-sheathing <sup>4</sup> <sup>11</sup> / <sub>2</sub> <sup>+</sup> go pean-sheathing <sup>4</sup> <sup>11</sup> / <sub>2</sub> <sup>+</sup> and fea	1.9, " extended and the sector discovery 1.9," gal- dismeter, 1.9," gal- t.9," gal- gal- t.9," gal- gal- t.9," gal- gal- gal- gal- gal- gal- gal- gal-	or if "convert itages (e.g., $f_{-\infty}^{*}$ ) long anized routing hall, staple galvanized, 11.7, "sectors, Type W or 5 moreal needs on stable galvanized, 1.7, $\phi_{-}^{*}$ necessary, Type W or 5 host are subdiscrondering marks their stag mad ( $2^{+}\times 0.120^{+}$ ) mail (efforts) (2.7, $\infty$ ). (13.7) mail	7	7	
32 33 34 35 36	<sup>1</sup> / <sub>1</sub> <sup>2</sup> structural cethologic file. Asset sheathing <sup>1</sup> / <sub>1</sub> <sup>2</sup> structure encodulation file rhouse sheathing <sup>1</sup> / <sub>2</sub> <sup>2</sup> go peanscheathing <sup>4</sup> <sup>2</sup> / <sub>2</sub> <sup>2</sup> go peanscheathing <sup>4</sup> <sup>3</sup> / <sub>4</sub> go peanscheathing <sup>4</sup> Wied structured g	1.V. mate discussor 1.V. gal- discustor 1.V. gal- discustor 1.V. gal- 1.V. g	or 1" arrown stable 16 gs., 17,* long amined roofing null, stable galvanived. 17,* accesses, Type W or 5 amined noofing null, staple galvanized, 17,* hourses, Type W or 5 listed an subdiscreasing marks the stag and (2* s.0.120*) null; or	7	7	

### 0 0 C Ž H (1) C S Ц., C 0 Q ш elo S 0 Ζ O 00 0 nin Pla R S 0 eg N Ō 0 an of unty Ζ 0 Σĝ 0



Sheet Number

### THESE ARE MINIMUM REQUIREMENTS AND HALL NOT SUPERSEDE MORE RESTRICTIV SPECIFICATIONS ON THE PLANS OR AS REQUIRED BY APPLICABLE CODE.

Nails are proofs-convexer, box or deformed sharks except where ofderwise stated. Nails used for thatting and sheathing connections shall have summary average bending yield attends to a shown-100 kai for shark duareter of 0.192 inch (206 decision nail), 90 kai for shark duareters target that 0.142 inch but not larger than 0.177 when, and 100 km by showh duareters of 0.142 inch to first.

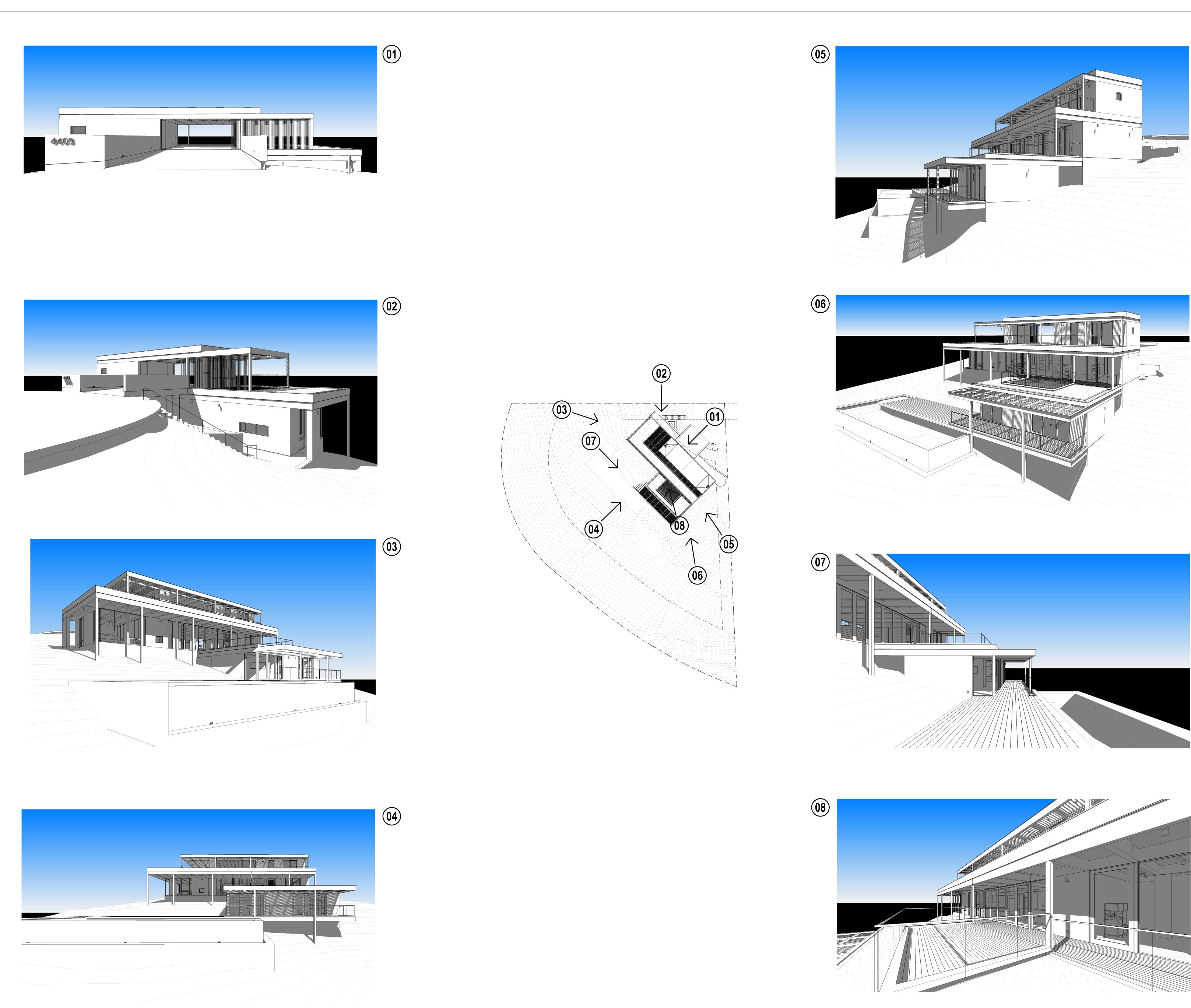
c. Has shall be special an outcommunanty sockes on conjust and supports where special and a success of greater.
d. Pow-root y 5-foot of 4-foot by 9-foot presents in all to explore a write special and supports where special and support where special and supports where special and support support special and supports where special and support special and support special and support special and support special and special and support special and support special and support special and special and support special and support special and special special and special and support special and support special and special and special and special special and special and special special and special special and special speci

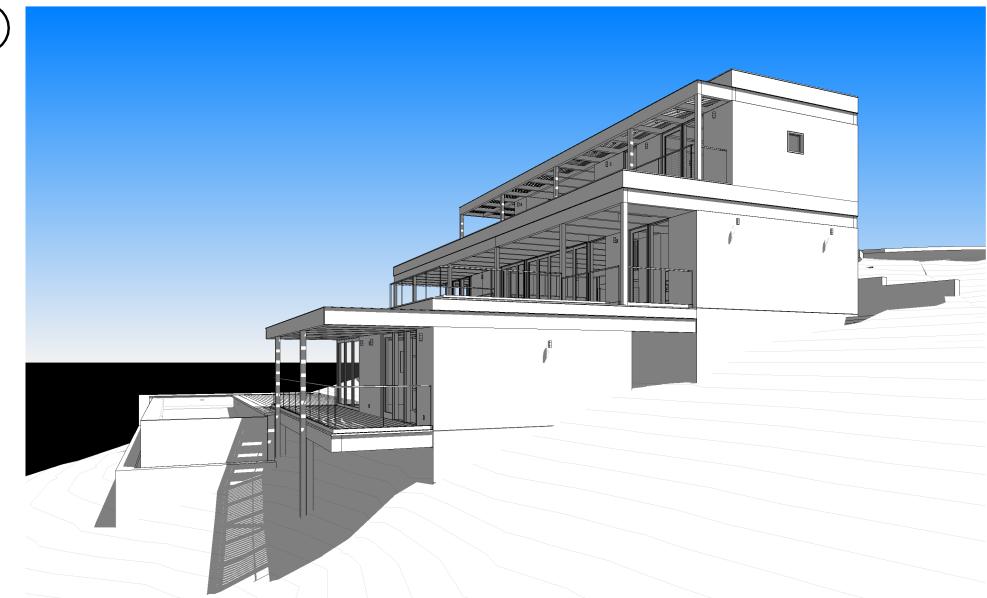
Where a rafter is lastened to an adjacent parallel opting joint insecondance with this schedule, provide two toe sails on one side of the taffer and toenaits from he certing joint to top plate in accordance with this schedule. The toe nail on the oppinalia side of the rafter shall not be required.

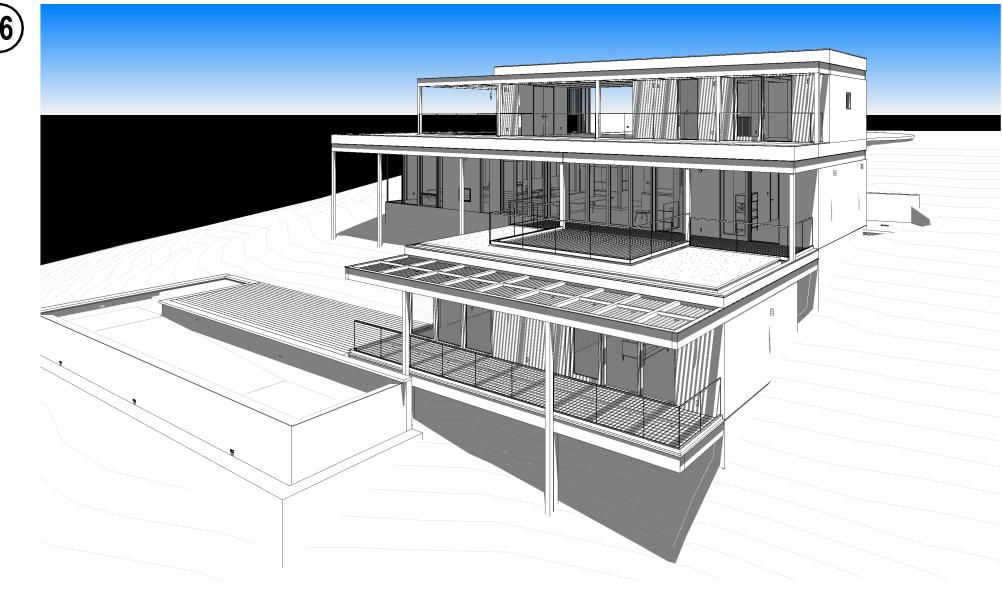
Steples are 16 gage wire and have a minimum 71, inch on d lameter crown width

s shall be spaced as not more than 6 inches on canter stall supports where space are 48 inches or presion.

THER DISSII SPEC	EIN ARE THE PROP MINATED TO OTHEF IFIED PROJECT FOR	ERTY OF <b>0.1bm</b> AND SH RS OR USED IN CONNE	NS, IDEAS, IMAGES AND DRAWINGS JALL NOT BE REPRODUCED, DISCLOS CTION WITH ANY WORK OTHER THA EEN PREPARED, IN WHOLE OR IN PA ON OF <b>o.lbm</b>	SED OR N THE
02 01 NO	08/21/20 11/27/19 DATE	Clty Plan Che Plan Check S REAS		LB LB CHK
972 619	Embarcader	DM o Road, Palo Al lb@leonardo		
CLIEN		ziuk		
KEY P	LAN			
STAM	P			
			ARCHIER	
44	finity Re 03 Alta	esidence Mira Dri CA 9194		
TITLE Mi	n. Cons	st. Specif	fications	
NUMB	ZK-2018	3-01	DATE 11/27/2019 SCALE	







THER DISSII SPEC	EIN ARE THE PROPE MINATED TO OTHER IFIED PROJECT FOR	THE INCLUDED DESIGNS, IDEAS, IMAGES AND DRAWINGS ERTY OF <b>o.lbm</b> AND SHALL NOT BE REPRODUCED, DISCLO S OR USED IN CONNECTION WITH ANY WORK OTHER THA WHICH THEY HAVE BEEN PREPARED, IN WHOLE OR IN PA RITTEN AUTHORIZATION OF <b>o.lbm</b>	SED OR IN THE
01 NO	11/27/19 DATE	Plan Check Submission REASON FOR ISSUE	LB CHK
972 619 cons	Embarcadero	Road, Palo Alto, CA 94303 Ib@leonardobuendia.com	
	atricia D	ziuk	
KEY P	ILAN		
STAM	P	CENSED ARCATIAN LEONARDO I BUENDIA MARTIN DEL CAMPO NO. C 34431 REN.: OF CALIFORM	
44	finity Re 03 Alta	esidence Mira Drive CA 91941	
ТІТІЕ	terior V	ïews	
NUMB	ZK-2018	B-01 DATE 11/27/2019 SCALE 1" = 30'-0"	

### CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Infinity Residence Calculation Date/Time: 11:52, Tue, Feb 09, 2021 Calculation Description: Title 24 Analysis Input File Name: 19-073 Infinity Residence.ribd16x

GENERAL INFO	ORMATION						
01	Project Name	Infinity Residence					
02	Calculation Description	Title 24 Analysis	Title 24 Analysis				
03	Project Location	4403 Alta Mira Drive					
04	City	La Mesa	05		Standards Version	Compliance 2017	
06	Zip Code	91941	07	Cor	mpliance Manager Version	BEMCmpMgr 2016.3.1 (1149)	
08	Climate Zone	CZ7	09		Software Version	EnergyPro 7.2	
10	Building Type	Single Family	11	Front	Orientation (deg/Cardinal)	60	
12	Project Scope	Newly Constructed	13		Number of Dwelling Units	1	
14	Total Cond. Floor Area (ft <sup>2</sup> )	2800	15		Number of Zones	3	
16	Slab Area (ft <sup>2</sup> )	2363	17	17 Number of Storie		3	
18	Addition Cond. Floor Area(ft <sup>2</sup> )	n/a	19 Natural Gas Availab		Natural Gas Available	Yes	
20	Addition Slab Area (ft <sup>2</sup> )	n/a	21	Glazing Percentage (%)		37.9%	
COMPLIANCE	RESULTS		ana Gran		<del></del>		
01	Building Complies with Compu	ter Performance					
02	This building incorporates feat	es features that require field testing and/or verification by a c			ater under the supervision	of a CEC-approved HERS provider.	
03	This building incorp <mark>orates</mark> one	or more Special Features shown bel	low		11100		
		HERS	PRO	DVII	) E R		
		ENER	GY USE SUMMA	ARY			
	04	05		06	07	08	
E	nergy Use (kTDV/ft <sup>2</sup> -yr)	Standard Design	Propos	ed Design	Compliance Margin	Percent Improvement	
	Space Heating 6.13 5.50		5.50 0.63		10.3%		
	Space Cooling 1.37		3	3.33	-1.96	-143.1%	
	IAQ Ventilation	1.00	1	1.00	0.00	0.0%	
	Water Heating	6.17	3	3.25	2.92	47.3%	
	Photovoltaic Offset	State	C	0.00	0.00		
С	ompliance Energy Total	14.67	1	3.08	1.59	10.8%	

Registration Number: 219-P010071422D-000-000-0000000-0000 Registration Date/Time: HERS Provider: 2021-02-09 16:44:59 CA Building Energy Efficiency Standards - 2016 Residential Compliance Report Version - CF1R-01162019-1149 Report Generated at: 2021-02-09 11:53:04

### CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Infinity Residence Calculation Description: Title 24 Analysis

CF1R-PRF-01 Calculation Date/Time: 11:52, Tue, Feb 09, 2021 Page 4 of 9 Input File Name: 19-073 Infinity Residence.ribd16x

01	02	03	04	05	06	07	08	09	10
Name	Туре	Surface (Orientation-Azimuth)	Width (ft)	Height (ft)	Multiplier	Area (ft <sup>2</sup> )	U-factor	SHGC	Exterior Shading
(01) Window	Window	East Wall (Front-60)	(1 <del>1111</del> 2)		1	8.0	0.34	0.31	Insect Screen (defau
(02) Window	Window	South Wall (Left-150)			1	4.0	0.34	0.31	Insect Screen (defau
(F02) Window	Window	West Wall (Back-240)			1	30.0	0.34	0.31	Insect Screen (defau
(107) Door System	Window	West Wall (Back-240)	( <del></del> )		1	27.7	0.54	0.34	Insect Screen (defai
(F01) Window	Window	West Wall (Back-240)			1	24.0	0.34	0.31	Insect Screen (defa
(103) French Door	Window	North Wall (Right-330)			1	47.0	0.34	0.31	Insect Screen (defau
(05) Window	Window	East Wall 2 (Front-60)			1	13.0	0.34	0.31	Insect Screen (defai
(04) Window	Window	East Wall 2 (Front-60)			1	75.8	0.34	0.31	Insect Screen (defa
(03) Window	Window	East Wall 2 (Front-60)			1	12.0	0.34	0.31	Insect Screen (defa
(F13) Window	Window	South Wall 2 (Left-150)			1	49.5	0.34	0.31	Insect Screen (defa
(F10) Window	Window	West Wall 2 (Back-240)			1	33.8	0.34	0.31	Insect Screen (defa
(209) Door System	Window	West Wall 2 (Back-240)	7.6	9.0	0.493	33.7	0.54	0.34	Insect Screen (defa
(F09) Window	Window	West Wall 2 (Back-240)	<b>K</b> ``		1	36.0	0.34	0.31	Insect Screen (defa
(210) Door System	Window	West Wall 2 (Back-240)	31.0	9.0	0.272	75.9	0.54	0.34	Insect Screen (defa
(211) Door System	Window	West Wall 2 (Back-240)	13.5	9.0	0.624	75.8	0.54	0.34	Insect Screen (defa
(212) Door System	Window	West Wall 2 (Back-240)			1	75.8	0.54	0.34	Insect Screen (defa
(09) Window	Window	West Wall 2 (Back-240)			1	18.0	0.34	0.31	Insect Screen (defa
(08) Window	Window	West Wall 2 (Back-240)			1	3.1	0.34	0.31	Insect Screen (defa
(F8) Window	Window	West Wall 2 (Back-240)	1.420322.5		1	11.3	0.34	0.31	Insect Screen (defa
(07) Window	Window	West Wall 2 (Back-240)	0.000000		1	7.2	0.34	0.31	Insect Screen (defa
(F7) Window	Window	West Wall 2 (Back-240)	1. <del></del> 2		1	31.0	0.34	0.31	Insect Screen (defa
(F6) Window	Window	West Wall 2 (Back-240)	10000		1	34.5	0.34	0.31	Insect Screen (defa
(F5) Window	Window	West Wall 2 (Back-240)	0.000		1	35.2	0.34	0.31	Insect Screen (defa
(F04) Window	Window	North Wall 2 (Right-330)	( <b>****</b> )		1	34.5	0.34	0.31	Insect Screen (defa
(06) Window	Window	North Wall 2 (Right-330)	(1 <del>31113</del> ))		1	24.5	0.34	0.31	Insect Screen (defai
(F6) Window 2	Window	North Wall 2 (Right-330)			1	7.0	0.34	0.31	Insect Screen (defai
(F12) Window	Window	West Wall 3 (Back-240)			1	30.0	0.34	0.31	Insect Screen (defai
(F11 Window	Window	West Wall 3 (Back-240)	(1 <del>999)</del> (1		1	32.0	0.34	0.31	Insect Screen (defa
(302) Door System	Window	West Wall 3 (Back-240)	13.0	7.6	0.32	31.6	0.54	0.34	Insect Screen (defai

Registration Number: 219-P010071422D-000-000-000000-0000 CA Building Energy Efficiency Standards - 2016 Residential Compliance Report Version - CF1R-01162019-1149

Registration Date/Time: 2021-02-09 16:44:59 HERS Provider: CalCERTS inc. Report Generated at: 2021-02-09 11:53:04

### CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Calculation Date/Time: 11:52, Tue, Feb 09, 2021 Project Name: Infinity Residence Calculation Description: Title 24 Analysis Input File Name: 19-073 Infinity Residence.ribd16x

	01				02			03		04		
Quality In	sulation Instal	llation (QII)	Qua	lity Installa	tion of Spray Foam I	nsulation	Building En	velope Air Lea	kage	CFM	50	
	Not Required				Not Required		No	t Required		n/a		
WATER HEATING S	YSTEMS		1994									
01			02		03		04		05		06	
Nam	e	Sy	stem Type		Distribution	Туре	Water He	ater	Number of	Heaters Sol	Solar Fraction (%)	
DHW S	ys 1	0.	DHW	ä	Standard		DHW Heate	er 1 (1)	1		80.0%	
DHW S	ys 2		DHW		Standard		DHW Heate	er 2 (1)	1		.0%	
WATER HEATERS							<i>1</i> .					
01	02	03	04	05	06	07	08	09	10	11	12	
Name	Heater Element Type	Tank Type	Number of Units	Tank Volume (gal)	Uniform Energy Factor / Energy Factor / Efficiency	Input Rating / Pilot / Thermal Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss / Recovery Eff	First Hour Rating / Flow Rate	NEEA Heat Pump Brand / Model / Other	Tank Locatio or Ambient Condition	
DHW Heater 1	Gas	Small Instantaneous	1	0	0.96 EF	<= 200 kBtu/hr	R-0/R-0	0	n/a	n/a	n/a	
WATER HEATERS				~		1114	<del>7 1</del>	100				
01	02	03	04	05	06	P P07 O	V 08 D	E 09	10	11	12	
Name	Heater Element Type	Tank Type	Number of Units	Tank Volume (gal)	Uniform Energy Factor / Energy Factor / Efficiency	Input Rating / Pilot / Thermal Efficiency	Tank Insulation R-value (Int/Ext)	Standby Loss / Recovery Eff	First Hour Rating / Flow Rate	NEEA Heat Pump Brand / Model / Other	Tank Locatio or Ambient Condition	
DHW Heater 2	Gas	Small Instantaneous	1	0	0.96 EF	<= 200 kBtu/hr	R-0/R-0	0	n/a	n/a	n/a	
SPACE CONDITION	ING SYSTEM	S										
	01			02	03		04		05	1. C.	06	
sc	Sys Name		Syste	em Type	Heating U	nit Name	Cooling Unit	Name	Fan Na	me Dis	tribution Name	
(N) Hydro	bic Heating Sys	ste1	Other Heatir Sy	ng and Cool stem	ing Heating Cor	mponent 1	Cooling Comp	onent 1	HVAC F	an 1	- none -	
HVAC - HEATING U	NIT TYPES		<i>0</i> .									
	01				02			03		04		
	Name				System Ty	pe		Number of Uni	its	Efficiency		
He	eating Compon	ent 1			Boiler			1		96 AFUE		

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCI	E COMPLIANCE METHOD
Project Name: Infinity Residence	Calculation Date/Time: 11:52, Tue, Feb 09, 2021
Calculation Description: Title 24 Analysis	Input File Name: 19-073 Infinity Residence.ribd16x

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			ENE	RGY DESIGN RATING				
Energy Ser the energy componen jurisdiction As a Stand is provided	rvices (RESNET) referen performance of a buildin its not regulated by Title ns pursuing local ordinal lard Design building und	ce home characterization of ng that combines high levels 24, Part 6 (such as domestic nces under Title 24, Part 11 ( er the 2016 Building Energy	energy performance of the 2006 International I of energy efficiency w appliances and consu CALGreen). Efficiency Standards is	a building using a scori Energy Conservation Co ith renewable generatior mer electronics), it is no s significantly more effic	de (IECC) with California n n to"zero out" its TDV ene t used to show complianc ient than the baseline EDI	resents the energy performan nodeling assumptions. A sco rgy. Because EDR includes o re with Part 6 but may instead R building, the EDR of the Sta so that the effects of efficience	ore of zero represents consideration of d be used by local andard Design building	
	DR of Standard Efficienc	y EDR o	f Proposed Efficiency	EDR Val	ue of Proposed PV + Batte	ery Final Pr	oposed EDR	
	45.7		44.2		0.0		44.2	
	Design meets Tier 1 requirement of 15% or greater code compliance margin (CALGreen A4.203.1.2.1) and QII verification prerequisite.							
	Design meets Tier 2 requirement of 30% or greater code compliance margin (CALGreen A4.203.1.2.2) and QII verification prerequisite.							
		t Energy (ZNE) Design Desig eration suffi <mark>cie</mark> nt to achieve				203.1.2.3) including on-site p QII must be verified.	ohotovoltaic (PV)	
Notes: • Excess I	PV Generation EDR Cred	it: Bypassing PV size limit m	nay violate Net Energy I	Metering (NEM) rules				
REQUIRED	SPECIAL FEATURES					i da Se d		
The followir	ng are features that must b	e installed as condition for me	eting the modeled energ	y performance for this corr	puter analysis.			
<ul> <li>Exposed</li> <li>Solar wat</li> </ul>		d zone family building Special feat	ure and additional doc	umentation	HDER	0		
	TURE SUMMARY							
	ng is a summary of the fea the building components t		by a certified HERS Ra	ter as a condition for meet	ing the modeled energy per	formance for this computer and	alysis. Additional detail i	
<ul> <li>IAQ mec</li> <li>Cooling Sy</li> <li> None -</li> <li>HVAC Dist</li> <li> None -</li> </ul>	ribution System Verificat  Hot Water System Verific							
BUILDING	- FEATURES INFORMAT	ION		v	1		10	
	01	02	03	04	05	06	07	
P	Project Name	Conditioned Floor Area (ft <sup>2</sup> )	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water	
		boliationea ribor Area (it )	011113	Number of Bearboins	Number of Zones	cooling systems	Heating Systems	

Registration Number: 219-P010071422D-000-000-0000000-0000 Registration Date/Time: HERS Provider: 2021-02-09 16:44:59 CalCERTS inc. CA Building Energy Efficiency Standards - 2016 Residential Compliance Report Version - CF1R-01162019-1149 Report Generated at: 2021-02-09 11:53:04

### CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01 Calculation Date/Time: 11:52, Tue, Feb 09, 2021 Project Name: Infinity Residence Page 5 of 9 Input File Name: 19-073 Infinity Residence.ribd16x Calculation Description: Title 24 Analysis ---- 1 105.5 0.54 0.34 Insect Screen (default) (301) Door System Window West Wall 3 (Back-240) ---- 1 33.0 0.34 0.31 Insect Screen (default) North Wall 3 (Right-330) (305) French Door Window OPAQUE DOORS 02 03 04 01 Area (ft<sup>2</sup>) Name Side of Building U-factor North Wall 2 (201) Door 36.0 0.70 OVERHANGS AND FINS 02 03 04 05 06 07 08 09 10 11 12 13 14 01 Left Fin **Right Fin** Overhang Left Right Depth Dist Up Extent Extent Flap Ht. Window Depth Top Up Dist L Bot Up Top Up Dist R Bot Up Depth (209) Door System 8 0.1 0 0 0 0 0 0 0 (210) Door System 0 0 0.1 0 0 8 0 0 0 0 0 0

8 0,1 0 0 0 0 0 0 0 0 0 0 0 0

8 0.1 0 0 0 0 0 0 0 0 0 0 0

PROVIDER

Registration Number: 219-P010071422D-000-000-0000000-0000 Registration Date/Time: HERS Provider: 2021-02-09 16:44:59 CalCERTS inc. CA Building Energy Efficiency Standards - 2016 Residential Compliance Report Version - CF1R-01162019-1149 Report Generated at: 2021-02-09 11:53:04

### CF1R-PRF-01 CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Infinity Residence Calculation Date/Time: 11:52, Tue, Feb 09, 2021 Page 8 of 9 Calculation Description: Title 24 Analysis Input File Name: 19-073 Infinity Residence.ribd16x

01	02	03	04	05	06
Dwelling Unit	IAQ CFM	IAQ Watts/CFM	IAQ Fan Type	IAQ Recovery Effectiveness(%)	HERS Verificatio
SFam IAQVentRpt	58	0.25	Default	0	Required

\*\*THIS TITLE 24 ENERGY ANALYSIS IS FOR ENERGY CODE COMPLIANCE PURPOSES ONLY. FINAL SPECIFICATION & LIABILITY OF EQUIPMENT & INSTALLATION MUST BE DONE BY A LICENSED MECHANICAL CONTRACTOR, PERFORMING MANUAL J,D,& S CALCULATIONS\*\*



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Registration Date/Time: 2021-02-09 16:44:59

HERS Provider: CalCERTS inc. Report Generated at: 2021-02-09 11:53:04

CalCERTS inc.

(211) Door System

(302) Door System

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Calculation Date/Time: 11:52, Tue, Feb 09, 2021 Project Name: Infinity Residence Calculation Description: Title 24 Analysis Input File Name: 19-073 Infinity Residence.ribd16x

01	02	03	04	05	06		07	
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft <sup>2</sup> )	Avg. Ceiling Height	Water Heating System 1		Water Heating System 2	
(N) Street Level Floor Ar	Conditioned (	N) Hydroic Heating Syste1	437	8	DHW Sys 1		DHW S	ys 2
(N) Lower Level Floor Are	Conditioned (	N) Hydroic Heating Syste1	1562	9	DHW Sys 1		DHW Sys 2	
(N) Pool Terrace Floor Ar	Conditioned (	N) Hydroic Heating Syste1	801	8	DHW Sy	/s 1	DHW Sys 2	
PAQUE SURFACES						÷		-
01	02	03	04	05	06	0.	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft <sup>2</sup> )	Window &	Door Area (ft <sup>2</sup> )	Tilt (deg)
East Wall	(N) Street Level Floor Ar	R-21 Wall	60	Front	240	8		90
South Wall	(N) Street Level Floor Ar	R-21 Wall	150	Left	146	4		90
West Wall	(N) Street Level Floor Ar	R-21 Wall	240	Back	312	81.7		90
North Wall	(N) Street Level Floor Ar	R-21 Wall	330	Right	146	47		90
Interior Floor	(N) Street Level Floor Ar>>(N) Lov Level Floor Are	Interior R-19 Floor	n/a	n/a	437		n/a	n/a
East Wall 2	(N) Lower Level Floor Are	R-21 Wall	60	Front	740		100.8	90
South Wall 2	(N) Lower Level Floor Are	R-21 Wall	150	Left	207		49.54	90
West Wall 2	(N) Lower Level Floor Are	R-21 Wall	R 🔾 240	Back	740	4	71.255	90
North Wall 2	(N) Lower Level Floor Are	R-21 Wall	330	Right	207		102	90
East Wall 3	(N) Pool Terrace Floor Ar	8 CMU Wall +R/10 +	R/5 60	Front	364		0	90
South Wall 3	(N) Pool Terrace Floor Ar	8 CMU Wall +R/10	150	Left	193.5		0	90
West Wall 3	(N) Pool Terrace Floor Ar	R-21 Wall	240	Back	364	1	99.136	90
North Wall 3	(N) Pool Terrace Floor Ar	8 CMU Wall +R/10	330	Right	158	1	32.95	90

01	02	03	04	05	06	07	08	09	10
Name	Zone	Туре	Orientation	Area (ft <sup>2</sup> )	Skylight Area (ft2)	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roof
Roof	(N) Street Level Floor Ar	(1) R-30 Roof Deck	Front	437	0	0.1	0.1	0.85	No
Roof 2	(N) Lower Level Floor Are	(2) R-30 Roof Deck	Front	761	0	0.1	0.1	0.85	No
Roof 3	(N) Pool Terrace Floor Ar	(3) R-30 Roof Deck	Front	801	0	0.1	0.1	0.85	No

Registration Number: 219-P010071422D-000-000-000000-0000 CA Building Energy Efficiency Standards - 2016 Residential Compliance Report Version - CF1R-01162019-1149

Registration Date/Time: 2021-02-09 16:44:59 HERS Provider: CalCERTS inc. Report Generated at: 2021-02-09 11:53:04

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01 Calculation Date/Time: 11:52, Tue, Feb 09, 2021 Project Name: Infinity Residence Calculation Description: Title 24 Analysis Input File Name: 19-073 Infinity Residence.ribd16x

PAQUE SURFACE CONSTR	UCTIONS								
01	02	03	04		05	06		07	
Construction Name	Surface Type	Construction Type	Framing		Total Cavity R-value	Winter Design U-factor		Assembly Layers	
Interior R-19 Floor	Interior Floors	Wood Framed Floor	2x12 @ 16 in. O.C.		R 19	0.044	<ul> <li>Floor De</li> <li>Cavity /</li> </ul>	rface: Carpeted eck: Wood Siding/sheat Frame: R-19 / 2x12 Below Finish: Gypsum I	
R-21 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O.C.		R 21	0.069	· Cavity /	inish: Gypsum Board Frame: R-21 / 2x6 Finish: 3 Coat Stucco	
(1) R-30 Roof Deck	Cathedral Ceilings	Wood Framed Ceiling	2x10 @ 16 in. O.C.		R 30	0.036	<ul> <li>Cavity /</li> <li>Roof De</li> <li>Tile Gap</li> </ul>	inish: Gypsum Board Frame: R-30 / 2x10 ck: Wood Siding/sheat : present 10 PSF (RoofTile)	hing/deckin
(2) R-30 Roof Deck	Cathedral Ceilings	Wood Framed Ceiling	2x10 @ 16 in. O.C.	Г	R 30	0.036	<ul> <li>Cavity /</li> <li>Roof De</li> <li>Tile Gap</li> </ul>	inish: Gypsum Board Frame: R-30 / 2x10 ck: Wood Siding/sheat : present 10 PSF (RoofTile)	hing/deckir
8 CMU Wall +R/10 + R/5	Exterior Walls	Hollow Unit Masonry	RS PR	0		E R 0.066	<ul> <li>Insulatio</li> <li>Mass La</li> <li>Insulatio</li> </ul>	inish: Gypsum Board n/Furring: R-10 / 2 in. v yer: 8 in. NW CMU So n/Furring: R-5 / no furn Finish: 3 Coat Stucco	lid Grout
8 CMU Wall +R/10	Exterior Walls	Hollow Unit Masonry				0.099	<ul> <li>Insulatio</li> <li>Mass La</li> </ul>	inish: Gypsum Board n/Furring: R-10 / 2 in. v yer: 8 in. NW CMU So Finish: 3 Coat Stucco	
(3) R-30 Roof Deck	Cathedral Ceilings	Wood Framed Ceiling	2x10 @ 16 in. O.C.		R 30	0.036	<ul> <li>Cavity /</li> <li>Roof De</li> <li>Tile Gap</li> </ul>	inish: Gypsum Board Frame: R-30 / 2x10 ck: Wood Siding/sheat : present 10 PSF (RoofTile)	hing/deckin
LAB FLOORS								20 <sup>-</sup>	
01		02	03	1	04	05		06	07
Name		Zone	Area (ft <sup>2</sup> )	Perin	neter (ft)	Edge Insul. R-value	& Depth	Carpeted Fraction	Heated
Slab-on-Grade	(N) Lowe	er Level Floor Are	1562	3	229	None		0	No
Slab-on-Grade 2	(N) Pool	Terrace Floor Ar	801		229	None		0	No

Registration Number: 219-P010071422D-000-000-000000-0000 Registration Date/Time: HERS Provider: 2021-02-09 16:44:59 CalCERTS inc. CA Building Energy Efficiency Standards - 2016 Residential Compliance Report Version - CF1R-01162019-1149 Report Generated at: 2021-02-09 11:53:04

### CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Calculation Date/Time: 11:52, Tue, Feb 09, 2021 Project Name: Infinity Residence Calculation Description: Title 24 Analysis Input File Name: 19-073 Infinity Residence.ribd16x

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT . I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Signaturation cumentation Author Name: David Schneider David Schneider Signature Date: Title 24 Energy Consultants (CEPE) 2021-02-09 11:54:19 CEA/HERS Certification Identification (If applicable): 6530 Salizar Street R08-08-261 / NR08-08-540 City/State/Zip: San Diego, CA 92111 619-504-5610 RESPONSIBLE PERSON'S DECLARATION STATEMENT certify the following under penalty of perjury, under the laws of the State of California: I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance. I certify that the energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. Responsible Designer Name: Responsible Designer Signaturc\* Leonardo Buendia Date Signed: Company: HERS 2021-02-09 16:44:59 o.lbm License: ddress: 972 Embarcadero Road C-34431 City/State/Zip: Phone: 619-410-1432 Palo Alto, CA 94303



Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

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THER DISSII SPEC	EIN ARE THE PROP MINATED TO OTHEF IFIED PROJECT FOR	ERTY OF <b>0.lbm</b> AND S RS OR USED IN CONN	GNS, IDEAS, IMAGES AND DRAWIN HALL NOT BE REPRODUCED, DISCI ECTION WITH ANY WORK OTHER T BEEN PREPARED, IN WHOLE OR IN ION OF <b>0.Ibm</b>	LOSED OR HAN THE
02 01	03/10/21 11/27/19	City Plan Ch Plan Check	Submission	LB LB
NO	DATE		SON FOR ISSUE	CHK
619	Embarcader .410.1432 ultant	o Road, Palo A Ib@leonardo	lto, CA 94303 obuendia.com	
CONS	ULTANT			
	atricia D	ziuk		
KEY P	'LAN			
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		MARTIN L	ARDO I ENDIA DEL CAMPO C34431	
		NO. REN.: REN.:	CALIFOR	
44	finity Re 03 Alta	esidence Mira Dr CA 919	ive	
TITLE			ns (1 of 2)	
			(* -• -)	
PROJI			DATE	
NUMB	ZK-2018 020	3-01	11/27/2019 SCALE	

Project Nan		EAS	URES S	SUMM/	ARY					RMS-
nfinity Residence Project Address				Build	ding Type		gle Fami Iti Family	ily □ Addition A / □ Existing+ /	one Addition/Alteration	Date 2/9/202
사이는 것이 같은 것이 없는 것이 없는 것이 없다.		1014		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ergy Clima		Total Cond. Floo	70044690M TOP2000 TOP2000	100.0000.0000
	a Mira Drive	La Me	esa	C	A Clim	ate Zon	ie 07	2,800	n/a	1
INSUL/				Cal		Area (ft <sup>2</sup> )	c	nacial East		Status
	uction Type			Cav	nty	/	3	pecial Featu	ires	
Demising Wall	Wood Framed w/o Wood Framed	Crawl S	oace	R 19 R 21		437 2.039				New New
Roof	Wood Framed Raft	lor		R 30		2,039				New
Slab	Unheated Slab-on-	CA26 X.8			sulation	2,363	Perim	- 159'		New
Door	Opaque Door	Graue		10	sulation	2,303	renn	- 400		New
Roof	Wood Framed Raft	ter		R 30	Suldion	761				New
Wall	Hollow Unit Mason			1.12	sulation	364	Add=R	-15.0		New
	Hollow Unit Mason				sulation	319		1010		New
	TRATION	.,	Total Area:	1,060		Percenta	11.03.50.00		d Average U-Factor:	0.039300
	tion Area(	$(f^2)$		SHGC	Over		Sidef		or Shades	Status
Front (NE)	108		0.340	0.31	none		none	Bug Scree		New
Left (SE)	53	3.5	0.340	0.31	none		none	Bug Scree		New
Rear (SW)	326	5.0	0.340	0.31	none		none	Bug Scree		New
Rear (SW)	209	9.0	0.540	0.34	none		none	Bug Scree	ən	New
Right (NW)	146	5.0	0.340	0.31	none		none	Bug Scree		New
Rear (SW)	217	7.0	0.540	0.34	8.0		none	Bug Scree	-112.	New
HVAC S	SYSTEMS				2012					
- <u>1979</u>	SYSTEMS leating		Min. Ef	f Co	oling		Min	n. Eff	Thermostat	Status
Qty. H	nyan ang manananana		Min. Ef	CONCERNMENT OF CONCERNMENT	oling		200.200		<b>Thermostat</b> Setback	Status New
Qty. H	leating		542.95274.5.982.947.1 (A	CONCERNMENT OF CONCERNMENT	Ŭ		200.200			
Qty. H	leating lydronic Boiler		542.95274.5.982.947.1 (A	CONCERNMENT OF CONCERNMENT	Ŭ		200.200		Setback	
Qty. H	leating lydronic Boiler DISTRIBUTIC		see DHW	No	Cooling		14.0	SEER S	Setback Duct	New
Qty. H	leating lydronic Boiler DISTRIBUTIC	Heat	see DHW	No	Cooling		200.200	SEER S	Duct R-Value	New Status
Qty. H	leating lydronic Boiler DISTRIBUTIC		see DHW	No	Cooling	Duc	14.0	SEER S	Setback Duct	New
Qty. H	leating lydronic Boiler DISTRIBUTIC	Heat	see DHW	No	Cooling		14.0	SEER S	Duct R-Value	New Status
Qty. H 1 H HVAC I Locatio (N) Hydroic	leating Jydronic Boiler DISTRIBUTIC On Heating Systen	Heat	see DHW	No	Cooling		14.0	SEER S	Duct R-Value	<sub>New</sub> Status
Qty. H 1 H HVAC I Locatio (N) Hydroic	leating lydronic Boiler DISTRIBUTIC DISTRIBUTIC Dn Heating Systen	Heat	see DHW ting Floor	No Co Duc	Cooling ooling tless	n/a	14.0	seer s	Duct R-Value	New Status New
Qty. H 1 H HVAC I Locatio (N) Hydroic WATER Qty. T	leating Jydronic Boiler DISTRIBUTIC DISTR	Heat Radiant i	see DHW ting Floor Ga	No	Cooling ooling tless Min.	n/a	14.0 et Loca Distri	seer s ation bution	Duct R-Value	New Status New Status
Qty. H 1 H HVAC I Locatio (N) Hydroic WATER Qty. T 1 S	Ieating Jydronic Boiler DISTRIBUTIC DISTR	Heat Radiant I	see DHW ting Floor Ga 0	No Co Duc	Cooling ooling tless Min. 0.96	n/a	14.0 t Loca Distri Standar	seer s ation bution	Duct R-Value	New Status New Status New
Qty. H 1 H HVAC I Locatio (N) Hydroic WATER Qty. T 1 S 1 S	leating lydronic Boiler DISTRIBUTIC DISTR	Heat Radiant I s Gas s Gas	see DHW ting Floor Ga 0 0	No Co Duc	Cooling ooling tless Min. 0.96 0.96	n/a Eff	14.0 It Loca Distri Standar Standar	seer s ation bution	Duct R-Value	New Status New Status New New New
Qty. H 1 H HVAC I Locatio (N) Hydroic WATER Qty. T 1 S 1 S	Ieating Jydronic Boiler DISTRIBUTIC DISTR	Heat Radiant I s Gas s Gas	see DHW ting Floor Ga 0	No Co Duc	Cooling ooling tless Min. 0.96	n/a Eff	14.0 t Loca Distri Standar	seer s ation bution	Duct R-Value	New Status New Status New

100	
NINT COMMISSION	2016 Low-Rise Residential Mandatory Measures Summary
	Duct System Sizing and Air Filter Grille Sizing. Space conditioning systems that use forced air ducts to supply cooling to an occupiable
	space must have a hole for the placement of a static pressure probe (HSPP), or a permanently installed static pressure probe (PSPP) in the supply plenum. The space conditioning system must also demonstrate airflow ≥ 350 CFM per ton of nominal cooling capacity through the return
§ 150.0(m)13:	grilles, and an air-handling unit fan efficacy ≤ 0.58 W/CFM as confirmed by field verification and diagnostic testing, in accordance with
	Reference Residential Appendix RA3.3. This applies to both single zone central forced air systems and every zone for zonally controlled central
	forced air systems." Ventilation for Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2. Neither window operation nor
§150.0(o):	continuous operation of central forced air system air handlers used in central fan integrated ventilation systems are permissible methods of
	providing whole-building ventilation. Field Verification and Diagnostic Testing. Whole-building ventilation airflow must be confirmed through field verification and diagnostic
§ 150.0(o)1A:	testing, in accordance with Reference Residential Appendix RA3.7.
Pool and Spa Sy	stems and Equipment Measures:
	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: a thermal efficiency that complies with the Appliance Efficiency Regulations; an on-off switch mounted outside of the heater that allows shutting off the heater
§ 110.4(a):	without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric
0.440.4455	resistance heating." Piping. Any pool or spa heating equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated
§ 110.4(b)1:	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.*
Lighting Measu	
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements
3 110.5.	of § 110.9." JA8 High Efficacy Light Sources. To qualify as a JA8 high efficacy light source for compliance with § 150.0(k), a residential light source must
§ 110.9(e):	be certified to the Energy Commission according to Reference Joint Appendix JA8.
§ 150.0(k)1A:	Luminaire Efficacy. All installed luminaires must be high efficacy in accordance with TABLE 150.0-A.
§ 150.0(k)1B:	Blank Electrical Boxes. The number of electrical boxes that are more than 5 feet above the finished floor and do not contain a luminaire or other device must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or
§ 150.0(k)1B.	fan speed control.
6 450 0/I-MO	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for: insulation contact (IC)
§ 150.0(k)1C:	labeling; air leakage; sealing; maintenance; and socket and light source as described in § 150.0(k)1C. A JA8-2016-E light source rated for elevated temperature must be installed by final inspection in all recessed downlight luminaires in ceilings.
§ 150.0(k)1D:	Electronic Ballasts. Ballasts for fluorescent lamps rated 13 watts or greater must be electronic and must have an output frequency no less than
0	20 kHz. Night Lights. Permanently installed night lights and night lights integral to installed luminaires or exhaust fans must be rated to consume no
§ 150.0(k)1E:	more than 5 watts of power per luminaire or exhaust fan as determined in accordance with § 130.0(c). Night lights do not need to be controlled
2020200000000	by vacancy sensors. Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods)
§ 150.0(k)1F:	must meet the applicable requirements of § 150.0(k)."
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must not be recessed downlight luminaires in ceilings and must contain lamps that comply with Reference Joint Appendix JA8. Installed lamps must be marked with "JA8-2016" or "JA8-2016-E" as specified in Reference Joint Appendix
3 100.0(1)10.	JA8.*
§ 150.0(k)1H:	Enclosed Luminaires. Light sources installed in enclosed luminaires must be JA8 compliant and must be marked with "JA8-2016-E."
§ 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 switched separately from lighting systems.
§ 150.0(k)2C:	Interior Switches and Controls. Luminaires must be switched with readily accessible controls that permit the luminaires to be manually switched ON and OFF.
§ 150.0(k)2D:	Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions.
§ 150.0(k)2E:	Interior Switches and Controls. No control must bypass a dimmer or vacancy sensor function if the control is installed to comply with
§ 150.0(k)2E:	§ 150.0(k). Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9.
3 100.0(K)21".	Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9. Interior Switches and Controls. An energy management control system (EMCS) may be used to comply with dimmer requirements if it:
§ 150.0(k)2G:	functions as a dimmer according to § 110.9; meets the Installation Certificate requirements of § 130.4; meets the EMCS requirements of § 130.5(f); and meets all other requirements in § 150.0(k)2.
§ 150.0(k)2H:	Interior Switches and Controls. An EMCS may be used to comply with vacancy sensor requirements in § 150.0(k) if it meets all of the following: it functions as a vacancy sensor according to § 110.9; the Installation Certificate requirements of § 130.4; the EMCS requirements of §
3 100.0(K)217.	130.5(f); and all other requirements in § 150.0(k)2.
§ 150.0(k)2I:	Interior Switches and Controls. A multiscene programmable controller may be used to comply with dimmer requirements in § 150.0(k) if it provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requirements in § 150.0(k)2.

	RESIDENTIAL Project Name Infinity Residence Project Address 4403 Alta Mira Driv INSULATION Construction T Roof Wood Framed
100 000 00 00 00 00 00 00 00 00	FENESTRATION Orientation Arc
100 000 000 000	
0.0 100 100 100 000	HVAC SYSTEMS Qty. Heating
10.000 AG	HVAC DISTRIBU
	WATER HEATIN Qty. Type
90 - 10000 - 100	EnergyPro 7.2 by Energy

EMINOY COMMISSION	
§ 150.0(k)2J:	Interior be cont
§ 150.0(k)2K:	Interior
	Referen
§ 150.0(k)2L:	Interior
	Reside building
§ 150.0(k)3A:	§ 150.0
19400 - 2046-04	EMCS)
	Reside
§ 150.0(k)3B:	and por
	either § Reside
§ 150.0(k)3C:	§ 150.0
§ 150.0(k)3D:	Reside
§ 150.0(k)5D.	vehicle
§ 150.0(k)4:	Interna
	power a Reside
§ 150.0(k)5:	applica
	Interior
§ 150.0(k)6A:	commo
BS 1200	building
	Interio
§ 150.0(k)6B:	commo i. Comp
3 100.0(1)00.	ii. Light
	50 perc
Solar Ready Bu	ildings:
	Single
§ 110.10(a)1:	Single applicat
§ 110.10(a)1:	Single applicat require
	Single applicat requirer Low-ris
§ 110.10(a)1:	Single applica require Low-ris Minimu
§ 110.10(a)1:	Single applica require Low-ris Minimu ventilat
§ 110.10(a)1: § 110.10(a)2:	Single applica requires Low-ris Minimu ventilat jurisdici each fo
§ 110.10(a)1:	Single applical requires Low-ris Minimu ventilati jurisdict each fo greater
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§ 110.10(a)1: § 110.10(a)2:	Single applicat required Low-ris Minimu ventilati jurisdict each fo greater For sing
§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1: § 110.10(b)2:	Single applical required Low-ris Minimu ventilati jurisdict each fo greater For sing square of anoth than 15 Orienta
§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1:	Single applicat required Low-ris Minimu ventilati jurisdict each fo greater For sing square of anoth than 15 Orienta Shadim mounte
§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1: § 110.10(b)2: § 110.10(b)3A:	Single applicative required Low-ris Minimuventilati jurisdict each fo greater For sing square of anoth than 15 Orienta Shadin mounte Shadin
§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1: § 110.10(b)2:	Single applicat required Low-ris Minimu ventilati jurisdict each fo greater For sing square of anott than 15 Orienta Shadin mounte Shadin distance
§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1: § 110.10(b)2: § 110.10(b)3A: § 110.10(b)3B:	Single applicat required Low-ris Minimu ventilati jurisdict each fo greater For sing square of anoth than 15 Orienta Shadin mounte Shadin distance the nea
§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1: § 110.10(b)2: § 110.10(b)3A:	Single applical required Low-ris Minimu ventilati jurisdict each fo greater For sing square of anoth than 15
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§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1: § 110.10(b)2: § 110.10(b)3A: § 110.10(b)3B:	Single applicative required Low-ris Minimuventilati jurisdict each fo greater For sing square of anoth than 15 Orienta Shadin mounte Shadin distance the nea Structu dead lo Interco routing
§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1: § 110.10(b)2: § 110.10(b)3A: § 110.10(b)3B: § 110.10(b)4:	Single applicat required Low-ris Minimu ventilati jurisdict each fo greater For sing square of anoth than 15 Orienta Shadin distance the nea Structu dead lo Interco routing intercor
§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1: § 110.10(b)2: § 110.10(b)3A: § 110.10(b)3B: § 110.10(b)4:	Single applica required Low-ris Minimu ventilat jurisdici each fo greater For sing square of anotti than 15 Orienta Shadin distanc the nea Structu dead lo Interco routing intercor
§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1: § 110.10(b)2: § 110.10(b)3A: § 110.10(b)3B: § 110.10(b)4: § 110.10(c): § 110.10(d):	Single applica required Low-ris Minimu ventilat jurisdici each fo greater For sing square of anoti than 15 Orienta Shadin mounte Shadin distanc the nea Structu dead lo Interco routing intercor § 110.1
§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1: § 110.10(b)1: § 110.10(b)3A: § 110.10(b)3B: § 110.10(b)3B: § 110.10(b)4: § 110.10(c):	Single applica required Low-ris Minimu ventilat jurisdici each fo greater For sing square of anoti than 15 Orienta Shadim distanc the nea Structu dead lo Interco routing intercor Docum § 110.1 Main E
§ 110.10(a)1: § 110.10(a)2: § 110.10(b)1: § 110.10(b)2: § 110.10(b)3A: § 110.10(b)3B: § 110.10(b)4: § 110.10(c): § 110.10(d):	Single applica required Low-ris Minimu ventilat jurisdici each fo greater For sing square of anoti than 15 Orienta Shadin mounte Shadin distanc the nea Structu dead lo Interco routing intercor § 110.1

MEASURES SU	JMMARY				RMS-
	Building Type	Multi Family	<ul> <li>□ Addition Alone</li> <li>□ Existing+ Addit</li> </ul>		Date 2/9/202
La Mesa		argy Climate Zone ate Zone 07	Total Cond. Floor Are 2,800	a Addition <i>n/a</i>	# of Un 1
pe	Cavity	Area (ft <sup>2</sup> ) Sp	ecial Features	6	Status
Rafter	R 30	801			New
Total Area:	2011 C 2010 C		.9% New/Altered Av		0.42
a( <i>ft</i> ²) U-Fac SI	HGC Overl	hang Sidefi	ns Exterior S	hades	Status
Min. Eff	Cooling	Min.	Eff Th	ermostat	Status
ION				Duct	
Heating	Cooling	Duct Locat	tion	Duct R-Value	Status
ricating	cooning	Duct Local		IN-Value	Otatus
Gall	ons Min.	Eff Distrib	ution		Status
ft User Number: 1562A			ID: 19-073		Page 13 of

# 2016 Low-Rise Residential Mandatory Measures Summary rior Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces must

Switches and Controls. In bathrooms, garages, laundry rooms, and utility rooms, at least one luminaire in each of these spaces must illed by a vacancy sensor.
Switches and Controls. Dimmers or vacancy sensors must control all luminaires required to have light sources compliant with e Joint Appendix JA8, except luminaires in closets less than 70 square feet and luminaires in hallways.*
Switches and Controls. Undercabinet lighting must be switched separately from other lighting systems.
tial Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other on the same lot, must meet the requirement in item § 150.0(k)3Ai (ON and OFF switch) and the requirements in either item ()3Aii (photocell and motion sensor) or item § 150.0(k)3Aiii (photo control and automatic time switch control, astronomical time clock, or
tial Outdoor Lighting. For low-rise multifamily residential buildings, outdoor lighting for private patios, entrances, balconies, hes; and outdoor lighting for residential parking lots and residential carports with less than eight vehicles per site must comply with 50.0(k)3A or with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
tial Outdoor Lighting. For low-rise residential buildings with four or more dwelling units, outdoor lighting not regulated by )3B or § 150.0(k)3D must comply with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0.
tial Outdoor Lighting. Outdoor lighting for residential parking lots and residential carports with a total of eight or more per site must comply with the applicable requirements in §§ 110.9, 130.0, 130.2, 130.4, 140.7, and 141.0.
y illuminated address signs. Internally illuminated address signs must comply with § 140.8; or must consume no more than 5 watts of determined according to § 130.0(c).
tial Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the e requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
Common Areas of Low-rise Multi-Family Residential Buildings. In a low-rise multifamily residential building where the total interior area in a single building equals 20 percent or less of the floor area, permanently installed lighting for the interior common areas in that must be high efficacy luminaires and controlled by an occupant sensor.
Common Areas of Low-rise Multi-Family Residential Buildings. In a low-rise multifamily residential building where the total interior area in a single building equals more than 20 percent of the floor area, permanently installed lighting in that building must: with the applicable requirements in §§ 110.9, 130.0, 130.1, 140.6 and 141.0; and
g installed in corridors and stairwells must be controlled by occupant sensors that reduce the lighting power in each space by at least nt. The occupant sensors must be capable of turning the light fully on and off from all designed paths of ingress and egress.
amily Residences. Single family residences located in subdivisions with ten or more single family residences and where the on for a tentative subdivision map for the residences has been deemed complete by the enforcement agency must comply with the ents of § 110.10(b) through § 110.10(e).
Multi-family Buildings. Low-rise multi-family buildings must comply with the requirements of § 110.10(b) through § 110.10(d).
<ul> <li>Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke n, and spacing requirements as specified in Title 24, Part 9 or other Parts of Title 24 or in any requirements adopted by a local n. 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 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 han 10,000 square feet.</li> <li>e 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 et. For low-rise multi-family buildings the solar zone must be located on the roof or overhang of the building, or on the roof or overhang or structure located within 250 feet of the building, or on covered parking installed with the building project, and have a total area no less ercent of the total roof area of the building any skylight area.*</li> </ul>
on. All sections of the solar zone located on steep-sloped roofs must be oriented between 110 degrees and 270 degrees of true north.
The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof
equipment." 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 measured in the horizontal plane, of the height difference between the highest point of the obstruction and the horizontal projection of est point of the solar zone, measured in the vertical plane."
al Design Loads on Construction Documents. For areas of the roof designated as solar zone, the structural design loads for roof and roof live load must be clearly indicated on the construction documents.
nection Pathways. The construction documents must indicate: a location for inverters and metering equipment and a pathway for i conduit from the solar zone to the point of interconnection with the electrical service (for single family residences the point of ection will be the main service panel); and a pathway for routing of plumbing from the solar zone to the water-heating system.
ntation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b) through (c) must be provided to the occupant.
ctrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
ctrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit or a future solar electric installation. The reserved space must be: positioned at the opposite (load) end from the input feeder location or uit location; and permanently marked as "For Future Solar Electric".



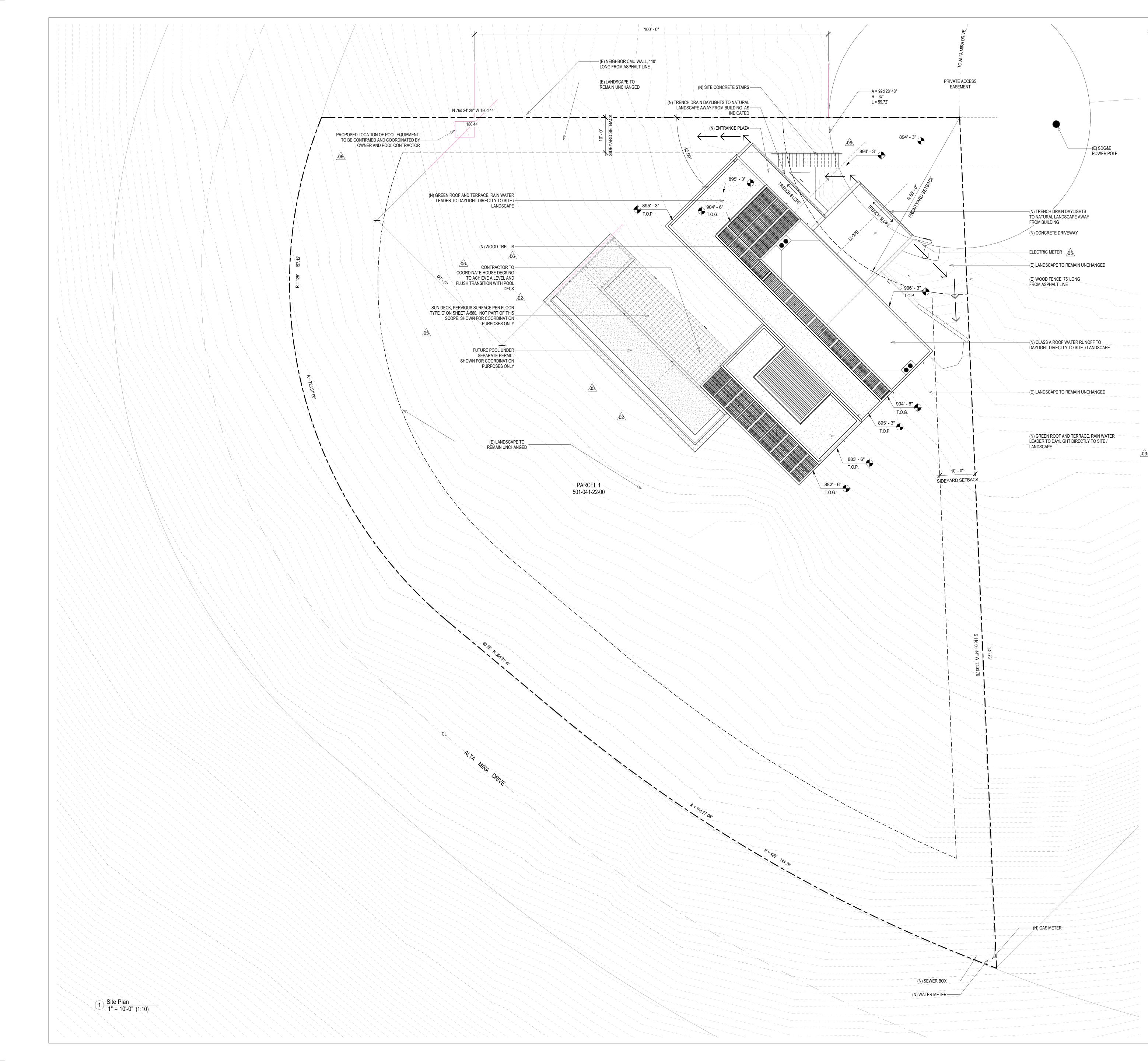
# 2016 Low-Rise Residential Mandatory Measures Summary

NOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach

<b>Building Envelop</b>	e Measures:
§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 cfm/ft <sup>2</sup> or less when tested per NFRC-400 or ASTM E283 or AAMA/WDMA/CSA 101/I.S.2/A440-2011."
§ 110.6(a)5:	Labeling. Fenestration products 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 TABLES 110.6-A and 110.6-B for compliance and must be caulked and/or weatherstripped.*
§ 110.7:	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 specified or installed must meet Standards for Insulating Material.
§ 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) when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	Radiant Barrier. A radiant barrier must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	Ceiling and Rafter Roof Insulation. Minimum R-22 insulation in wood-frame ceiling; or the weighted average U-factor must not exceed 0.043. Minimum R-19 or weighted average U-factor of 0.054 or less in a rafter roof alteration. 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 continuous 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):	Above Grade Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less (R-19 in 2x6 or U-factor of 0.074 or less). Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102, equivalent to an installed value of R-13 in a wood framed assembly."
§ 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 withou facings, no greater than 0.3%; have a water vapor permeance no greater than 2.0 perm/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 1-16, 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 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58."
Fireplaces, Deco	ative Gas Appliances, and Gas Log Measures:
§ 150.0(e)1A:	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)1B:	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)1C:	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control.*
§ 150.0(e)2:	Pilot Light. Continuous burning pilot lights and the use of indoor air for cooling a firebox jacket, when that indoor air is vented to the outside of the building, are prohibited.
Space Conditioni	ng, Water Heating, and Plumbing System Measures:
§ 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 Energy Commission."
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in TABLE 110.2-A through TABLE 110.2-K.*
§ 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 unitary heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat.
§ 110.3(c)5:	Water Heating Recirculation Loops Serving Multiple Dwelling Units. Water heating recirculation loops serving multiple dwelling units must meet the air release valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § 110.3(c)5.
§ 110.3(c)7:	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBTU/hr (2 kW) must have isolation valves with hose bibbs or other fittings on both cold water and hot water lines of water heating systems to allow for water tank flushing when the valves are closed.
§ 110.5:	Pilot Lights. Continuously burning pilot lights are prohibited for natural gas: fan-type central furnaces; household cooking appliances (appli- ances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu/hr are exempt); and pool and spa heaters
§ 150.0(h)1:	Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; SMACNA Residential Comfort System Installation Standards Manual; or ACCA

§ 150.0(h)3A:	Clearances. Installed air conditioner and heat pump outdoor condensing units must have a clearance of at least 5 feet from the outlet of any driver vent.
§ 150.0(h)3B:	Liquid Line Drier. Installed air conditioner and heat pump systems must be equipped with liquid line filter driers if required, as specified by manufacturer's instructions.
§ 150.0(j)1:	Storage Tank Insulation. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have R-12 external insulation or R-16 internal insulation where the internal insulation R-value is indicated on the exterior of the tank.
§ 150.0(j)2A:	Water piping and cooling system line insulation. For domestic hot water system piping, whether buried or unburied, all of the following must be insulated according to the requirements of TABLE 120.3-A: the first 5 feet of hot and cold water pipes from the storage tank; all piping with a nominal diameter of 3/4 inch or larger; all piping associated with a domestic hot water recirculation system regardless of the pipe diameter; piping from the heating source to storage tank or between tanks; piping buried below grade; and all hot water pipes from the heating source to kitchen fixtures.*
§ 150.0(j)2B:	Water piping and cooling system line insulation. All domestic hot water pipes that are buried below grade must be installed in a water proof and non-crushable casing or sleeve.*
§ 150.0(j)2C:	Water piping and cooling system line insulation. Pipe for cooling system lines must be insulated as specified in § 150.0(j)2A. Distribution piping for steam and hydronic heating systems or hot water systems must meet the requirements in TABLE 120.3-A.*
§ 150.0(j)3:	Insulation Protection. Insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind.
§ 150.0(j)3A:	Insulation Protection. Insulation exposed to weather must be installed with a cover suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. The cover must be water retardant and provide shielding from solar radiation that can cause degradation of the material.
§ 150.0(j)3B:	Insulation Protection. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must have a Class I or Class II vapor retarder.
§ 150.0(n)1:	Gas or Propane Systems. Systems using gas or propane water heaters to serve individual dwelling units must include all of the following: a 120V electrical receptacle within 3 feet of the water heater; a Category III or IV vent, or a Type B vent with straight pipe between the outside termination and the space where the water heater is installed; a condensate drain that is no more than 2 inches higher than the base of the water heater, and allows natural draining without pump assistance; and a gas supply line with a capacity of at least 200,000 Btu/hr.
§ 150.0(n)2:	Recirculating Loops. Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)5.
§ 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) or by a listing agency that is approved by the Executive Director.
Ducts and Fans	Measures:
§ 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 a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement.
§ 150.0(m)1:	<b>CMC Compliance.</b> All air-distribution system ducts and plenums must be installed, sealed, and insulated to meet the requirements of CMC §§ 601.0, 602.0, 603.0, 604.0, 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 a minimum installed level of R-6.0 (or higher if required by CMC § 605.0) or a minimum installed level of R-4.2 when entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.8). 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 requirements of UL 181, UL 181A, or UL 181B or aerosol sealant that meets the requirements of UL 723. If mastic or tape is used to seal openings greater than ¼ inch, the combination of mastic and either mesh or tape must be used. Building cavities, support platforms for air handlers, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used for conveying conditioned air. Building cavities and support platforms may contain ducts. Ducts installed in cavities and support platforms must not be compressed to cause reductions in the cross-sectional area of the ducts.
§ 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 Dampers. All fan systems that exchange air between the conditioned space and the outside of the building 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, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service. For example, protected by aluminum, sheet metal, painted canvas, or plastic cover. Cellular foam insulation must be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation.
§ 150.0(m)10:	Porous Inner Core Flex Duct. Porous inner core flex duct must have a non-porous layer 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 § 150.0(m)11and Reference Residential Appendix RA3.
§ 150.0(m)12:	Air Filtration. Mechanical systems that supply air to an occupiable space through ductwork exceeding 10 feet in length and through a thermal conditioning component, except evaporative coolers, must be provided with air filter devices that meet the design, installation, efficiency,

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# SITE PLAN NOTES

1. SOIL CLASSIFICATION : PRIOR TO FOUNDATION INSPECTION, SOILS COMPLIANCE SHALL BE CHECKED IN ACCORDANCE WITH SECTION 1803 OF THE 2015 IBC. IF THE BUILDING OFFICIAL SUSPECTS EXPANSIVE SOIL, THE BUILDING DEPARTMENT MAY REQUIRE A SOILS REPORT WHICH SHALL INCLUDE. BUT NOT BE LIMITED TO: A) A PLOT SHOWING THE LOCATION OF ALL BORINGS AND/OR EXCAVATIONS B) A COMPLETE RECORD OF THE SOIL BORING AND PENETRATION TEST LOGS AND SOIL SAMPLES C) A RECORD OF THE SOIL PROFILE D) RECOMMENDATIONS FOR FOUNDATION TYPE AND DESIGN CRITERIA, INCLUDING BUT NOT LIMITED TO: BEARING CAPACITY OF NATURAL OR COMPACTED SOIL; PROVISIONS TO MITIGATE THE EFFECTS OF EXPANSIVE SOILS; MITIGATION OF THE EFFECTS OF LIQUEFACTION, DIFFERENTIAL SETTLEMENT AND VARYING SOIL STRENGTH; AND THE EFFECTS OF ADJACENT LOADS E) EXPECTED TOTAL AND DIFFERENTIAL SETTLEMENT F) DEEP FOUNDATION INFORMATION IN ACCORDANCE WITH SECI10N 1803.5.5 OF THE 2015 IBC G) SPECIAL DESIGN AND CONSTRUCTION PROVISIONS FOR FOOTINGS OR FOUNDATIONS FOUNDED ON EXPANSIVE SOILS, AS NECESSARY H) COMPACTED FILL MATERIAL PROPERTIES AND TESTING IN ACCORDANCE WITH SECTION 1803.5.8 OF THE 2015 IBC I) CONTROLLED LOW-STRENGTH MATERIAL PROPERTIES AND TESTING IN ACCORDANCE WITH SECTION 1803.5.9 OF THE 2015 THE INSPECTOR WILL RECHECK FOR EXPANSIVE SOILS AND/OR GRADING REQUIREMENTS AT THE FIRST FOUNDATION INSPECTION 2. EXCAVATIONS AND FILLS: (2015 IBC SEC. 3304.1) A) EXCAVATIONS OR FILLS FOR BUILDINGS OR STRUCTURES SHALL BE SO CONSTRUCTED OR PROTECTED THAT THEY DO NOT ENDANGER LIFE OR PROPERTY. STUMPS AND ROOTS SHALL BE REMOVED FROM THE SOIL TO A DEPTH OF AT LEAST 12 INCHES BELOW THE SURFACE OF THE GROUND IN THE AREA TO BE OCCUPIED BY THE BUILDING. WOOD FORMS WHICH HAVE BEEN USED IN PLACING CONCRETE, IF WITHIN THE GROUND OR BETWEEN FOUNDATION SILLS AND THE GROUND, SHALL BE REMOVED BEFORE A BUILDING IS OCCUPIED OR USED FOR ANY PURPOSE. BEFORE COMPLETION, LOOSE OR CASUAL WOOD SHALL BE REMOVED FROM DIRECT CONTACT WITH THE GROUND UNDER THE BUILDING B) SLOPES FOR PERMANENT FILLS SHALL NOT BE STEEPER THAN 1 UNIT VERTICAL IN 2 UNITS HORIZONTAL (50% SLOPE). CUT SLOPES FOR PERMANENT EXCAVATIONS SHALL NOT BE STEEPER THAN 1 UNIT VERTICAL IN 2UNITS HORIZONTAL (50% SLOPE). C) NO FILL OR OTHER SURCHARGE LOADS SHALL BE PLACED ADJACENT TO ANY BUILDING OR STRUCTURE UNLESS SUCH BUILDING OR STRUCTIJRE IS CAPABLE OF WITHSTANDING THE ADDITIONAL LOADS CAUSED BY THE FILL OR SURCHARGE D) EXISTING FOOTINGS OR FOUNDATIONS THAT MAY BE

> ADEQUATELY OR OTHERWISE PROTECTED AGAINST LATERAL MOVEMENT E) FILLS TO BE USED TO SUPPORT THE FOUNDATIONS OF ANY BUJLDING OR STRUCTURE SHALL COMPLY WITH SECTION 1804.5 (2015 IBC) SPECIAL INSPECTIONS OF COMPACTED FILL SHALL BE IN ACCORDANCE WITH SECTION 1704. 7 (2015 IBC) PROPOSED PROJECT WILL REQUIRE LESS THAN 200 OR LESS CUBIC YARDS OF EARTH MOVED AND CUTS OR FILLS WILL NOT EXCEED 8 FEET IN DEPTH.

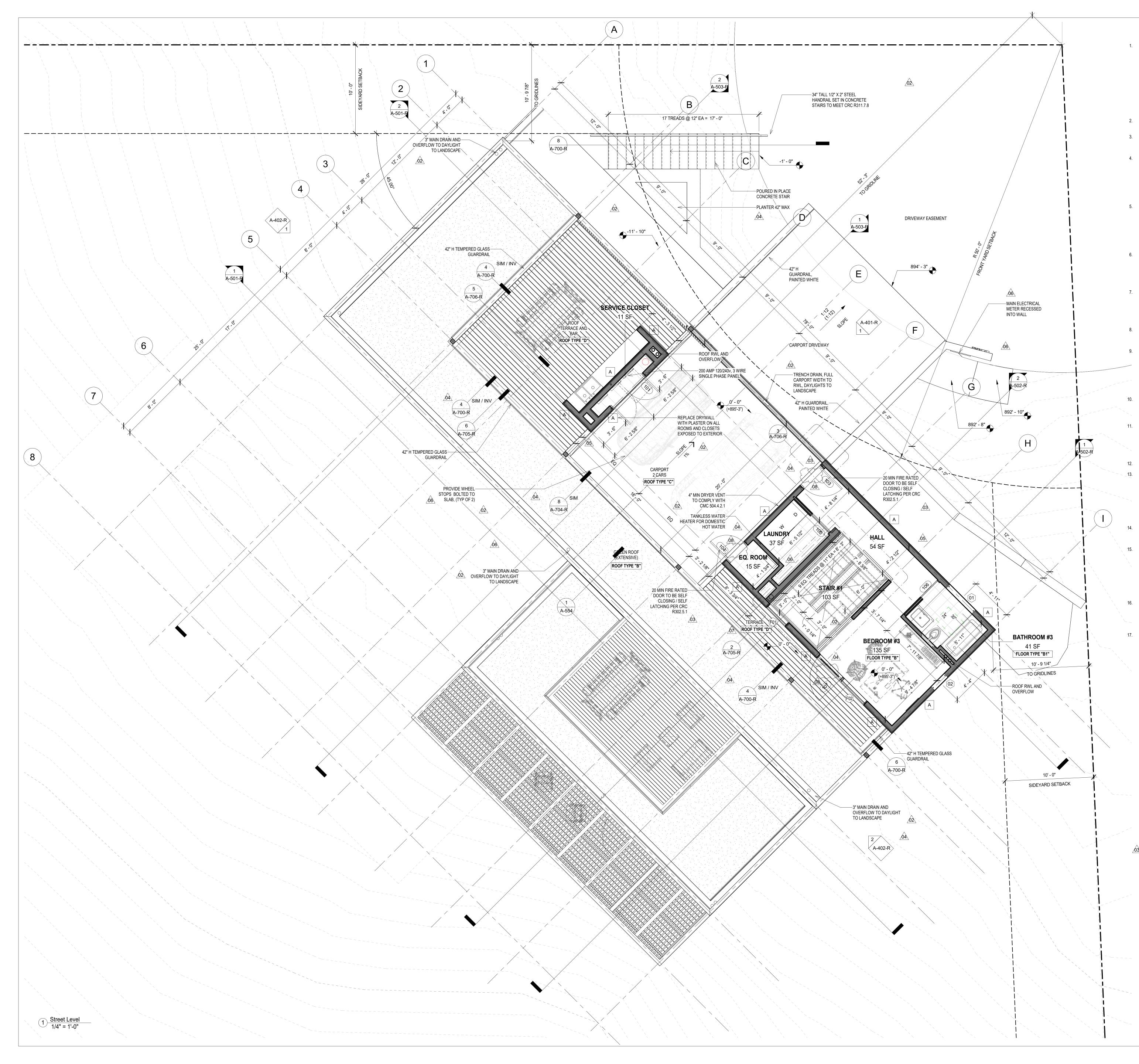
AFFECTED BY ANY EXCAVATION SHALL BE UNDERPINNED

BEST MANAGEMENT PRACTICES (BMP): THE OWNER / CONTRACTOR IS RESPONSIBLE TO IMPLEMENT THE PROPER BMP'S TO CONTROL SOIL EROSION AND DISCHARGES OF SEDIMENT AND OTHER POLLUTANTS FROM CONSTRUCTION SITES. SEE PLOT PLAN FOR BMP'S SELECTED FOR THIS PROJECT AS WELL AS CURRENT STORM WATER QUALITY NOTES. CONTRACTOR TO VERIFY ALL EXISTING SERVICE LINES AND CONNECTION POINTS PRIOR TO COMMENCEMENT OF WORK.

### SHEET SPECIFIC NOTES:

- ROOFING SHALL HAVE A CLASS "A" FIRE RATING PER COUNTY BUILDING CODE 92.2.R902 AND COUNTY BUILDING CODE 92.1.1505.1 - FILL OVER 12" SHALL BE COMPACTED IN ACCORDANCE WITH THE SOILS REPORT TO 90%

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# FLOOR PLAN NOTES

1. OCCUPANCY SEPARATION: OCCUPANCIES R/U

- A) PROVIDE 5/8" TYPE X GYPSUM BOARD FROM FLOOR TO ROOF SHEATHING THE GARAGE SIDE OF ALL COMMON WALLS BETWEEN THE GARAGE AND DWELLING (2015 IBC 406.1.4) B) GARAGES AND CARPORTS BENEATH HABITABLE ROOMS SHALL BE
- SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN A 5/8" TYPE X GYPSUM BOARD, OR EQUIVALENT (2009 IBC 406.1.4) C) PROVIDE A TIGHT FITTING AND SELF LATCHING, 1 3/8" THICK SOLID CORE DOOR (WOOD OR STEEL) OR HONEYCOMB STEEL DOOR WITH A
- SELF CLOSER BETWEEN THE GARAGE AND DWELLING. OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED (2015 IBC 406.1.4)
- STAIRS (2015 IBC 1009.6.3): PROVIDE 1/2" GYPSUM BOARD IN THE ENCLOSED USABLE SPACE UNDER ALL STAIRS
- DRAFT STOPS IN ATTICS (2015 IBC 717.4): DRAFTSTOPPING SHALL BE INSTALLED IN ATTICS AND CONCEALED ROOF SPACES, SUCH THAT ANY HORIZONTAL AREA DOES NOT EXCEED 3000 SQUARE FEET
- WINDOW AND / OR DOOR EGRESS FROM SLEEPING ROOMS AND BASEMENTS (CRC R310). SLEEPING ROOMS SHALL HAVE A WINDOW OR EXTERIOR DOOR FOR EMERGENCY ESCAPE. MINIMUM OF 5.7 SQUARE FEET OF NET CLEAR AREA ABOVE GRADE AND 5.0 SQUARE FEET AT GRADE OR BELOW. MINIMUM OF 24 INCH NET CLEAR HEIGHT AND 20 INCH NET CLEAR WIDTH. BOTTOM OF CLEAR OPENING MAXIMUM OF 44 INCHES ABOVE FLOOR. THE EMERGENCY DOOR OR WINDOW SHALL BE OPERABLE WITHOUT THE USE OF SEPARATE TOOLS.
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- 12. LOCATE LIGHT SWITCHES @ 40" ABOVE FINISH FLOOR (A.F.F.) U.N.O.
- ALL TOILETS TO BE "ULTRA LOW FLUSH" • PROVIDE LAVATORY FAUCETS WITH A MAXIMUM FLOW OF 1.2 GALLONS PER MINUTE.
- PROVIDE KITCHEN FAUCETS WITH A MAXIMUM FLOW OF 1.8 GALLONS PER MINUTE.
   PROVIDE SHOWER HEADS WITH A MAXIMUM FLOW OF 2.0
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- PER 2016 CGBSC, PLUMBING FIXTURES (WATER CLOSETS AND URINALS) AND FITTINGS (FAUCETS AND SHOWERHEADS) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE (CPC).
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- ALL ABS AND PVC PIPING AND FITTINGS SHALL BE ENCLOSED WITHIN WALLS AND FLOORS COVERED WITH "TYPE X GYPSUM BOARD" OR SIMILAR ASSEMBLIES THAT PROVIDE THE SAME LEVEL OF FIRE PROTECTION. PROTECTION OF MEMBRANE PENETRATIONS IS NOT REQUIRED.
- AFCI OUTLETS. ELECTRICAL CIRCUITS IN BEDROOMS, LIVING ROOMS, DINING ROOMS, DENS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS MUST BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS (AFCI). (CEC 210.12)
- WETBAR DESIGN LIMITATIONS:
- A. COUNTER SURFACES SHALL NOT EXCEED 10 FEET IN TOTAL LENGTH, NOR SHALL WALL CABINETS. (THIS COUNTER SIZE STANDARD SHALL APPLY TO POOL HOUSES, ETC. AND TO DWELLING ROOMS THAT ARE DISTANT, OR ISOLATED, FROM THE MAIN LIVING AREA OF A HOME.)
- B. ONLY ONE SINGLE SINK IS ALLOWED, 18" MAXIMUM LENGTH, WITH A MAXIMUM 1 1/2 INCH DRAIN
- C. ONLY ONE COMPACT REFRIGERATOR, FREEZER OR ICE MAKER (5 CUBIC FEET MAXIMUM CAPACITY) DESIGNED FOR PLACEMENT UNDER A COUNTER AND SO INSTALLED
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- "THE PROPOSED WETBAR WILL COMPLY WITH THE ABOVE WETBAR LIMITATIONS"

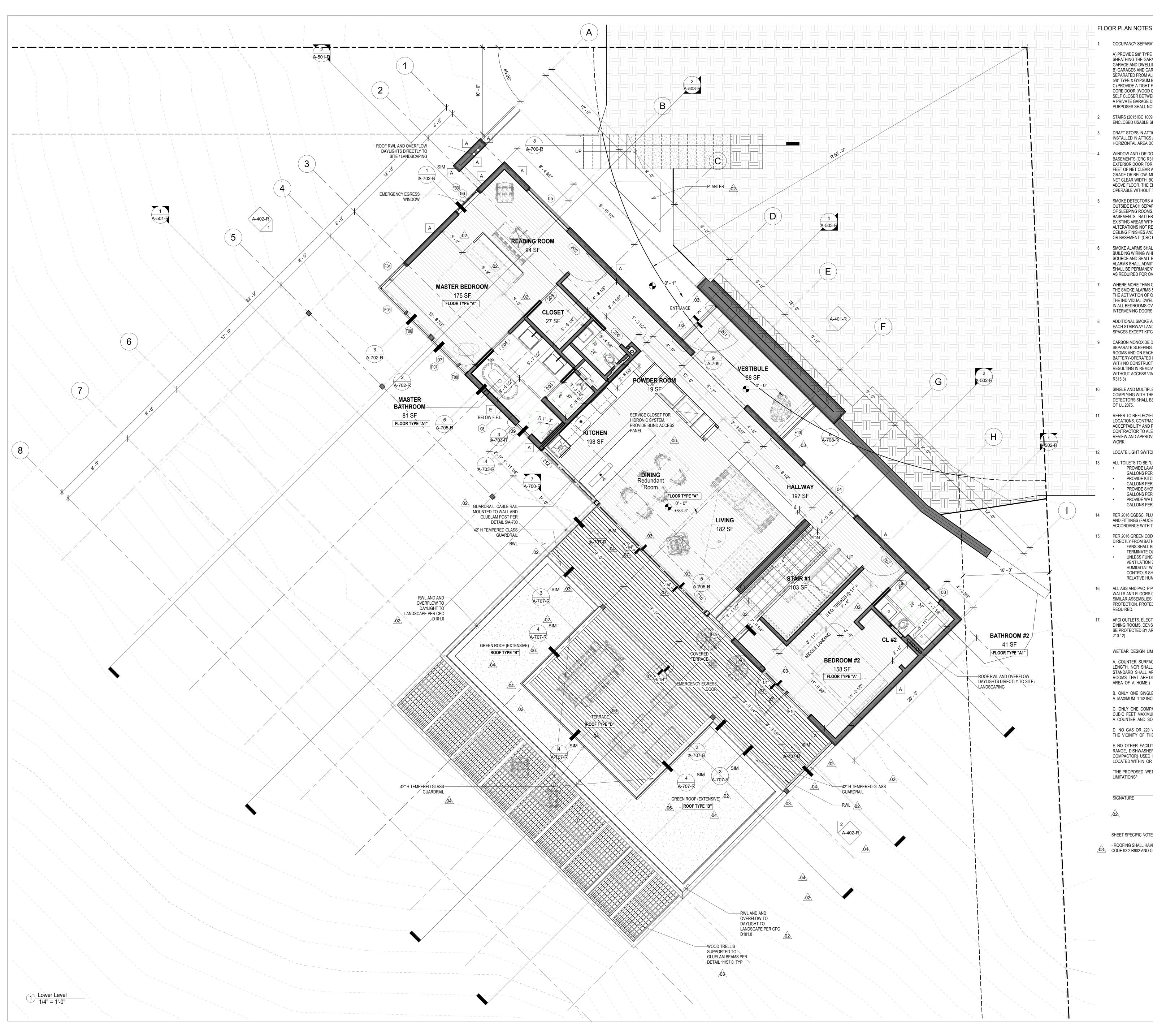
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# 1. OCCUPANCY SEPARATION: OCCUPANCIES R/U

A) PROVIDE 5/8" TYPE X GYPSUM BOARD FROM FLOOR TO ROOF

SHEATHING THE GARAGE SIDE OF ALL COMMON WALLS BETWEEN THE GARAGE AND DWELLING (2015 IBC 406.1.4) B) GARAGES AND CARPORTS BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN A 5/8" TYPE X GYPSUM BOARD, OR EQUIVALENT (2009 IBC 406.1.4) C) PROVIDE A TIGHT FITTING AND SELF LATCHING, 1 3/8" THICK SOLID CORE DOOR (WOOD OR STEEL) OR HONEYCOMB STEEL DOOR WITH A SELF CLOSER BETWEEN THE GARAGE AND DWELLING. OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING

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- PROVIDE WATER CLOSETS WITH A MAXIMUM FLOW OF 1.28 GALLONS PER FLUSH. (GPF)

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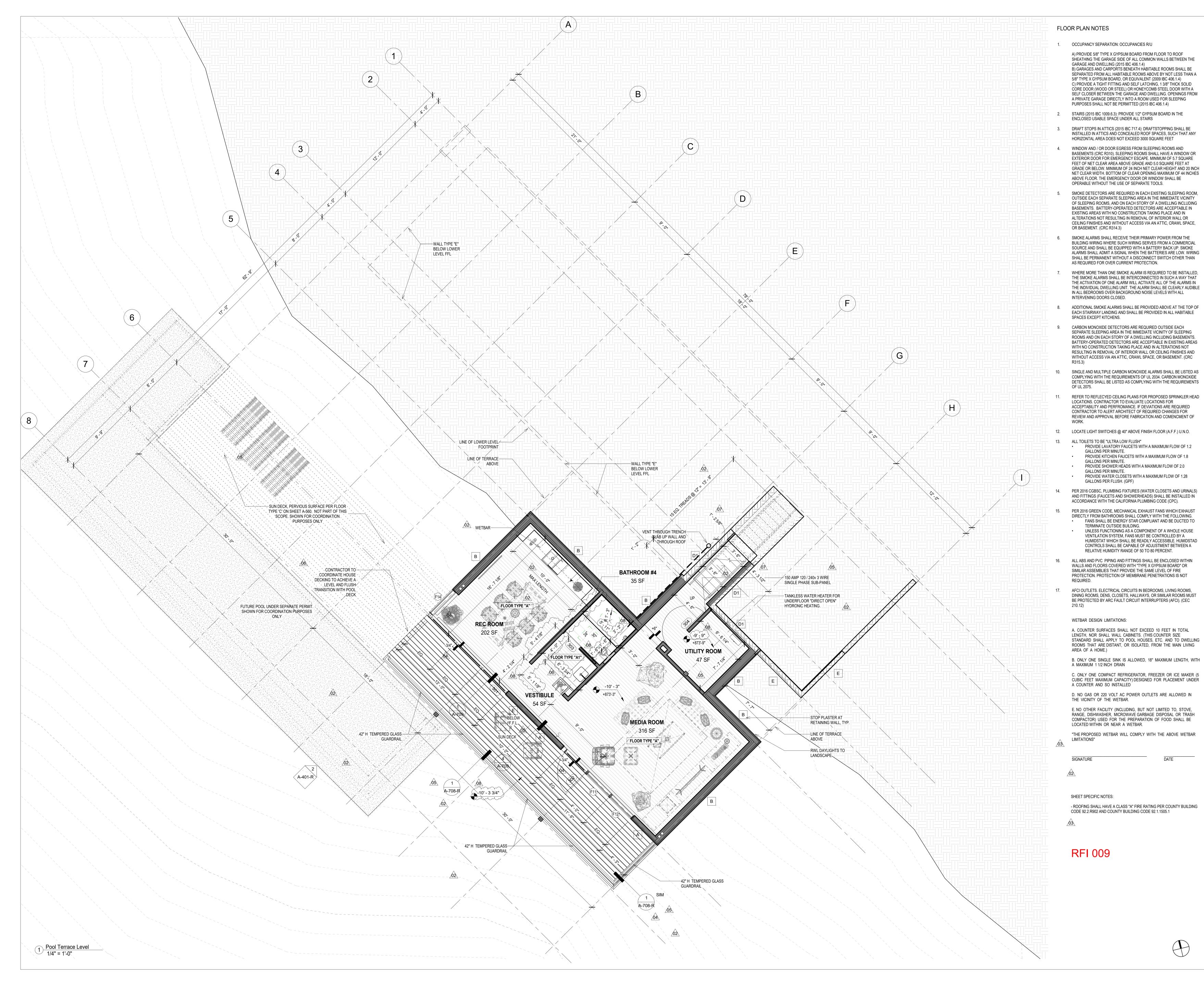
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SHEET SPECIFIC NOTES:

- ROOFING SHALL HAVE A CLASS "A" FIRE RATING PER COUNTY BUILDING <u>03</u> CODE 92.2.R902 AND COUNTY BUILDING CODE 92.1.1505.1

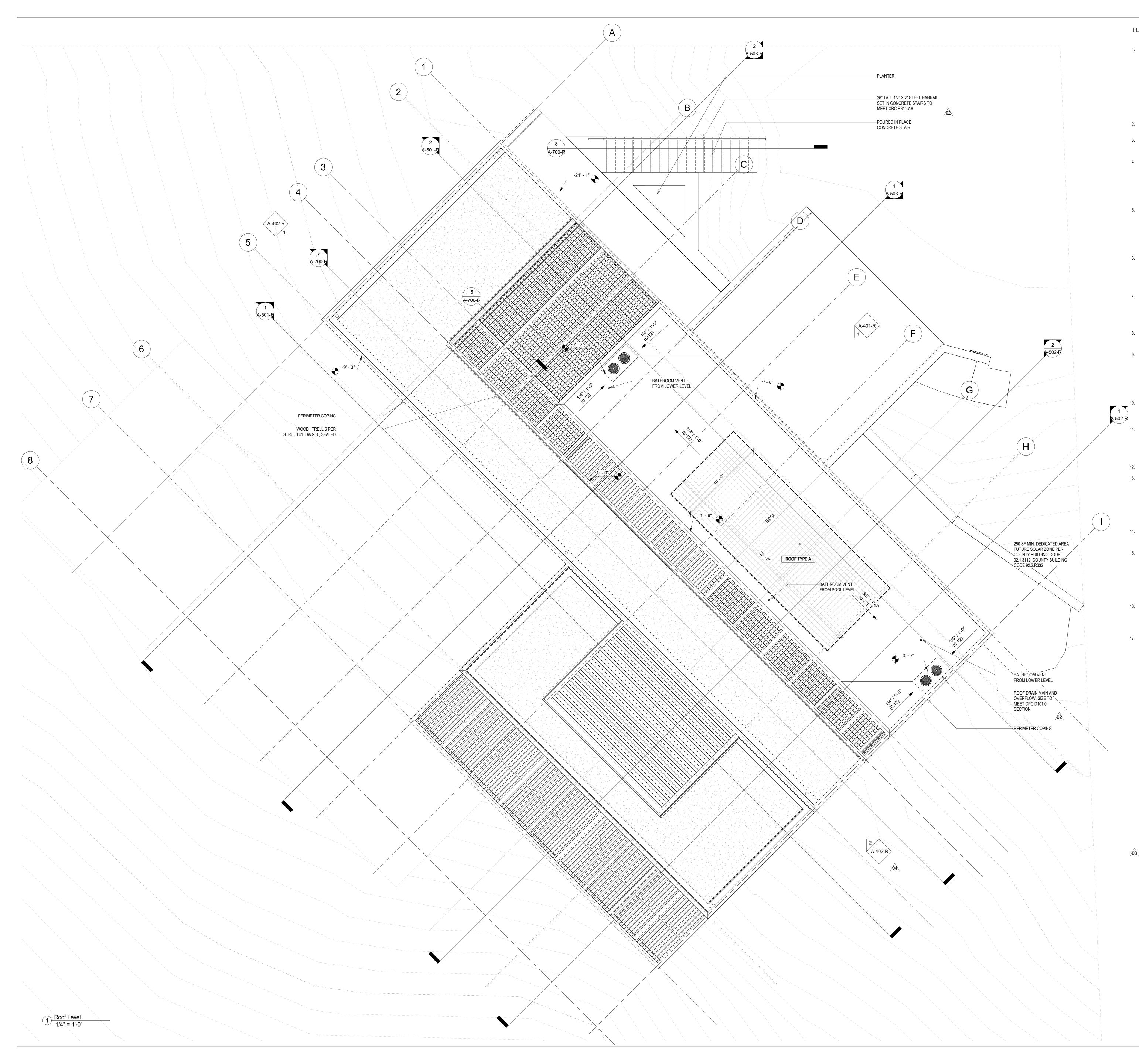
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# FLOOR PLAN NOTES

1. OCCUPANCY SEPARATION: OCCUPANCIES R/U

- A) PROVIDE 5/8" TYPE X GYPSUM BOARD FROM FLOOR TO ROOF SHEATHING THE GARAGE SIDE OF ALL COMMON WALLS BETWEEN THE GARAGE AND DWELLING (2015 IBC 406.1.4)
  B) GARAGES AND CARPORTS BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN A 5/8" TYPE X GYPSUM BOARD, OR EQUIVALENT (2009 IBC 406.1.4)
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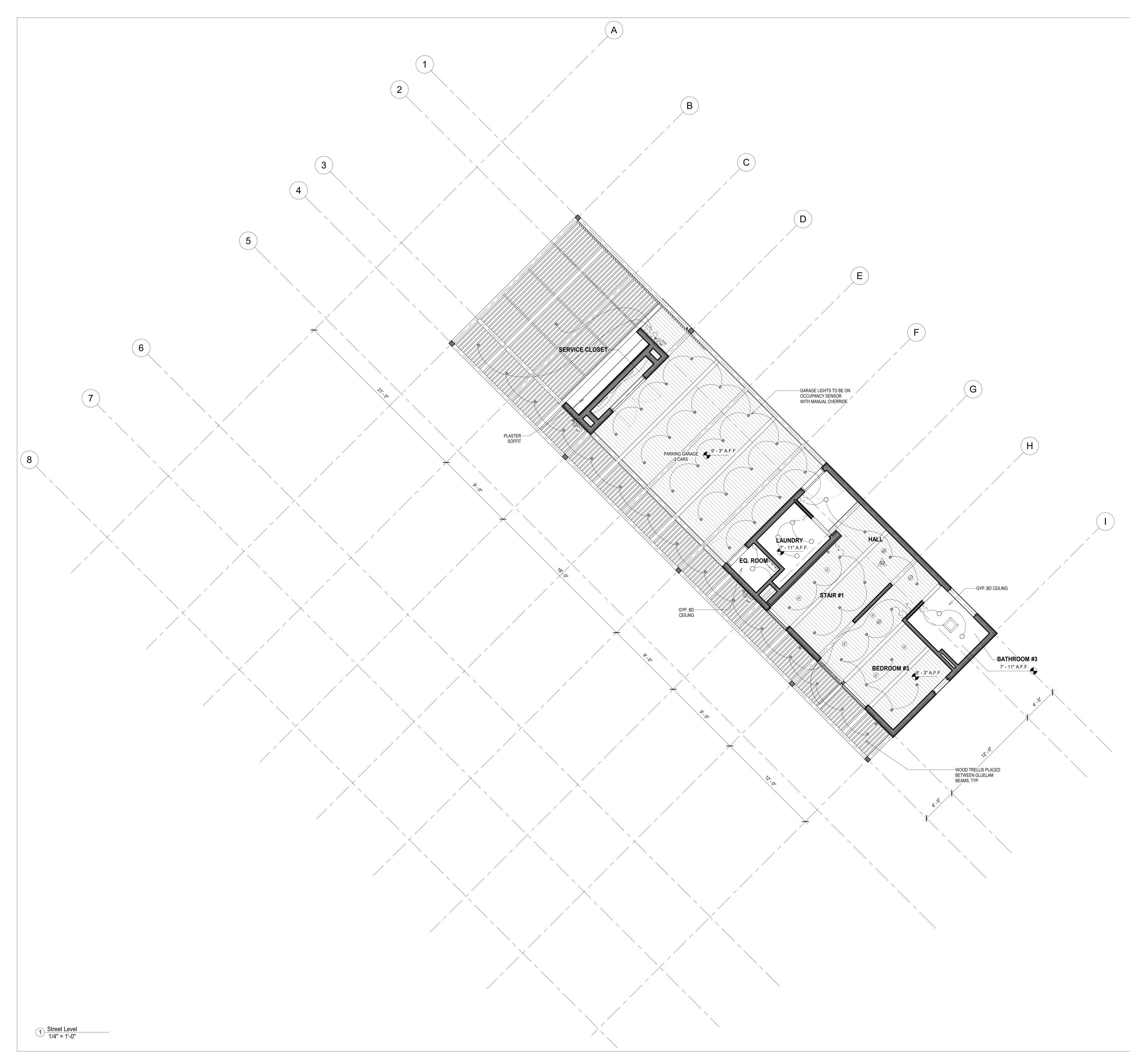
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5HEET SPECIFIC NOTES:

- ROOFING SHALL HAVE A CLASS "A" FIRE RATING PER COUNTY BUILDING CODE 92.2.R902 AND COUNTY BUILDING CODE 92.1.1505.1

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### PHOTOCONTROL AND MOTION SENSOR PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL ASTRONOMICAL TIME CLOCK ENERGY MANAGEMENT CONTROL SYSTEM PER CBEES 150.0(k)3Aiiic

EXCEPTION: CLOSETS LESS THAN 70 S.F EXCEPTION: HALLWAYS - OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDING SHALL BE CONTROLLED BY ONE OF THE FOLLOWING:

- ALL LUMINAIRES REQUIRING "JA8-016" OR "JA8-016-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR

SCREW-BASED - BATHROOMS GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR

COMMISSION DATABASE AT HTTPS://CACERTAPPLIANCES ENERGY.CA.GOV/PAGES/APPLIANCESEARCH. ASPX - RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS SHALL NOT BE SCREW-BASED

ASPX - ALL RECESSED DOWNLIGHT AND ENCLOSED LUMINAIRES SHALL BE MARKED "JA8-2016-E" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT HTTPS://CACERTAPPLIANCES ENERGY.CA.GOV/PAGES/APPLIANCESEARCH. ASPX

ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBEES TABLE 150.0-A
All LED LUMINAIRES AND LAMPS SHALL BE MARKED "JA8-2016' AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT HTTPS: //CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.

MANDATORY (CBEES 150.0(K))
- PROVIDE ON UTILITY PLANS A COMPLETE LIGHTING FIXTURE SCHEDULE

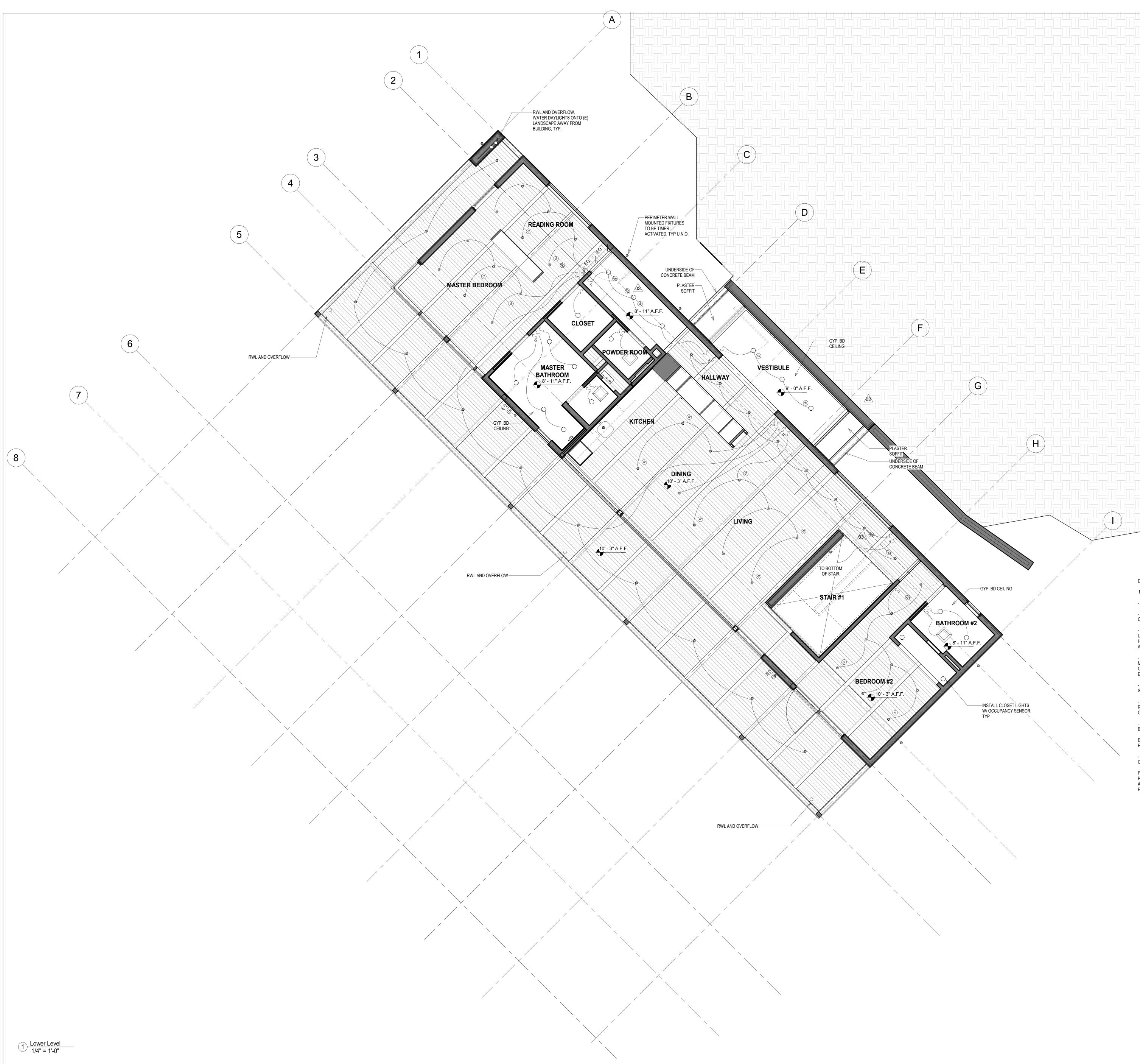
DESIGN SHALL COMPLY WITH THE FOLLOWING LIGHTING MEASURES

WALL MOUNTED LIGHT SWITCH - THREE WAY

RCP NOTES

(3)	CARBON MONOXIDE DETECTOR
6	SMOKE DETECTOR
0	RECESSED LIGHT FIXTURE
Ø	SURFACE MOUNTED LIGHT FIXTURE
	PENDANT LIGHT FIXTURE
٦	SPRINKLER HEAD
	EXHUAST FAN / LIGHT COMBO UNIT
Ş	WALL MOUNTED LIGHT SWITCH - SINGLE
Ş <sup>3</sup>	

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# CEILING LEGEND ③ CARBON MONOXIDE DETECTOR ③ SMOKE DETECTOR ○ RECESSED LIGHT FIXTURE ● SURFACE MOUNTED LIGHT FIXTURE ● PENDANT LIGHT FIXTURE ● SPRINKLER HEAD ● SHUAST FAN / LIGHT COMBO UNIT ● SURFACE MOUNTED LIGHT SURGE

WALL MOUNTED LIGHT SWITCH - THREE WAY

RCP NOTES

DESIGN SHALL COMPLY WITH THE FOLLOWING LIGHTING MEASURES MANDATORY (CBEES 150.0(K))

- PROVIDE ON UTILITY PLANS A COMPLETE LIGHTING FIXTURE SCHEDULE - ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBEES TABLE 150.0-A

- AII LED LUMINAIRES AND LAMPS SHALL BE MARKED "JA8-2016' AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT HTTPS: //CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH. ASPX

### - ALL RECESSED DOWNLIGHT AND ENCLOSED LUMINAIRES SHALL BE MARKED "JA8-2016-E" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT HTTPS://CACERTAPPLIANCES ENERGY.CA.GOV/PAGES/APPLIANCESEARCH. ASPX

- RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS SHALL NOT BE SCREW-BASED

### - BATHROOMS GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR

- ALL LUMINAIRES REQUIRING "JA8-016" OR "JA8-016-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR EXCEPTION: CLOSETS LESS THAN 70 S.F

EXCEPTION: HALLWAYS

- OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDING SHALL BE CONTROLLED BY ONE OF THE FOLLOWING:

PHOTOCONTROL AND MOTION SENSOR PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL ASTRONOMICAL TIME CLOCK

ENERGY MANAGEMENT CONTROL SYSTEM PER CBEES 150.0(k)3Aiiic

THER DISSI SPEC	EIN ARE THE PROPE MINATED TO OTHER IFIED PROJECT FOR	ERTY OF <b>0.1bm</b> AND SH IS OR USED IN CONNEC	NS, IDEAS, IMAGES AND DRAWINGS ALL NOT BE REPRODUCED, DISCLO CTION WITH ANY WORK OTHER THA EEN PREPARED, IN WHOLE OR IN P/ N OF <b>o.lbm</b>	SED OR IN THE
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# RFI 009

PHOTOCONTROL AND MOTION SENSOR PHOTOCONTROL AND AUTOMATIC TIME-SWITCH CONTROL ASTRONOMICAL TIME CLOCK ENERGY MANAGEMENT CONTROL SYSTEM PER CBEES 150.0(k)3Aiiic

- OUTDOOR LIGHTING PERMANENTLY MOUNTED TO BUILDING SHALL BE CONTROLLED BY ONE OF THE FOLLOWING:

EXCEPTION: CLOSETS LESS THAN 70 S.F EXCEPTION: HALLWAYS

- ALL LUMINAIRES REQUIRING "JA8-016" OR "JA8-016-E" MARKING SHALL BE CONTROLLED BY A DIMMER OR VACANCY SENSOR

- BATHROOMS GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS: AT LEAST ONE LUMINAIRE IN EACH SPACE SHALL BE CONTROLLED BY A VACANCY SENSOR

- RECESSED DOWNLIGHT LUMINAIRES IN CEILINGS SHALL NOT BE SCREW-BASED

- ALL RECESSED DOWNLIGHT AND ENCLOSED LUMINAIRES SHALL BE MARKED "JA8-2016-E" AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT HTTPS://CACERTAPPLIANCES ENERGY.CA.GOV/PAGES/APPLIANCESEARCH. ASPX

ASPX

- All LED LUMINAIRES AND LAMPS SHALL BE MARKED "JA8-2016' AND LISTED IN THE CALIFORNIA ENERGY COMMISSION DATABASE AT HTTPS: //CACERTAPPLIANCES.ENERGY.CA.GOV/PAGES/APPLIANCESEARCH.

- PROVIDE ON UTILITY PLANS A COMPLETE LIGHTING FIXTURE SCHEDULE - ALL LUMINAIRES SHALL BE HIGH-EFFICACY IN ACCORDANCE WITH CBEES TABLE 150.0-A

DESIGN SHALL COMPLY WITH THE FOLLOWING LIGHTING MEASURES MANDATORY (CBEES 150.0(K))

RCP NOTES

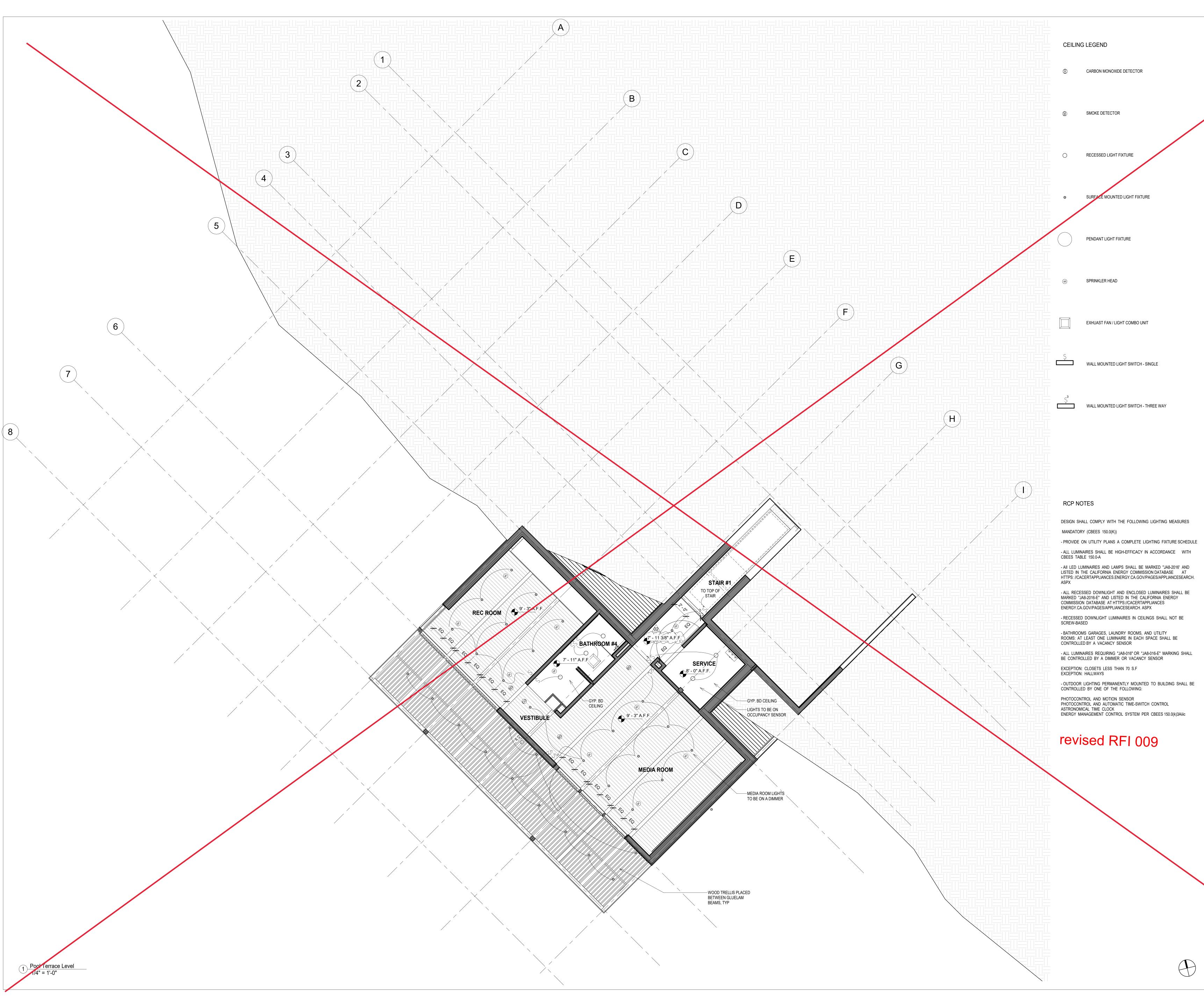
◎ SURFACE MOUNTED LIGHT FIXTURE PENDANT LIGHT FIXTURE SPRINKLER HEAD  $(\mathbf{o})$ EXHUAST FAN / LIGHT COMBO UNIT S WALL MOUNTED LIGHT SWITCH - SINGLE WALL MOUNTED LIGHT SWITCH - THREE WAY

CEILING LEGEND

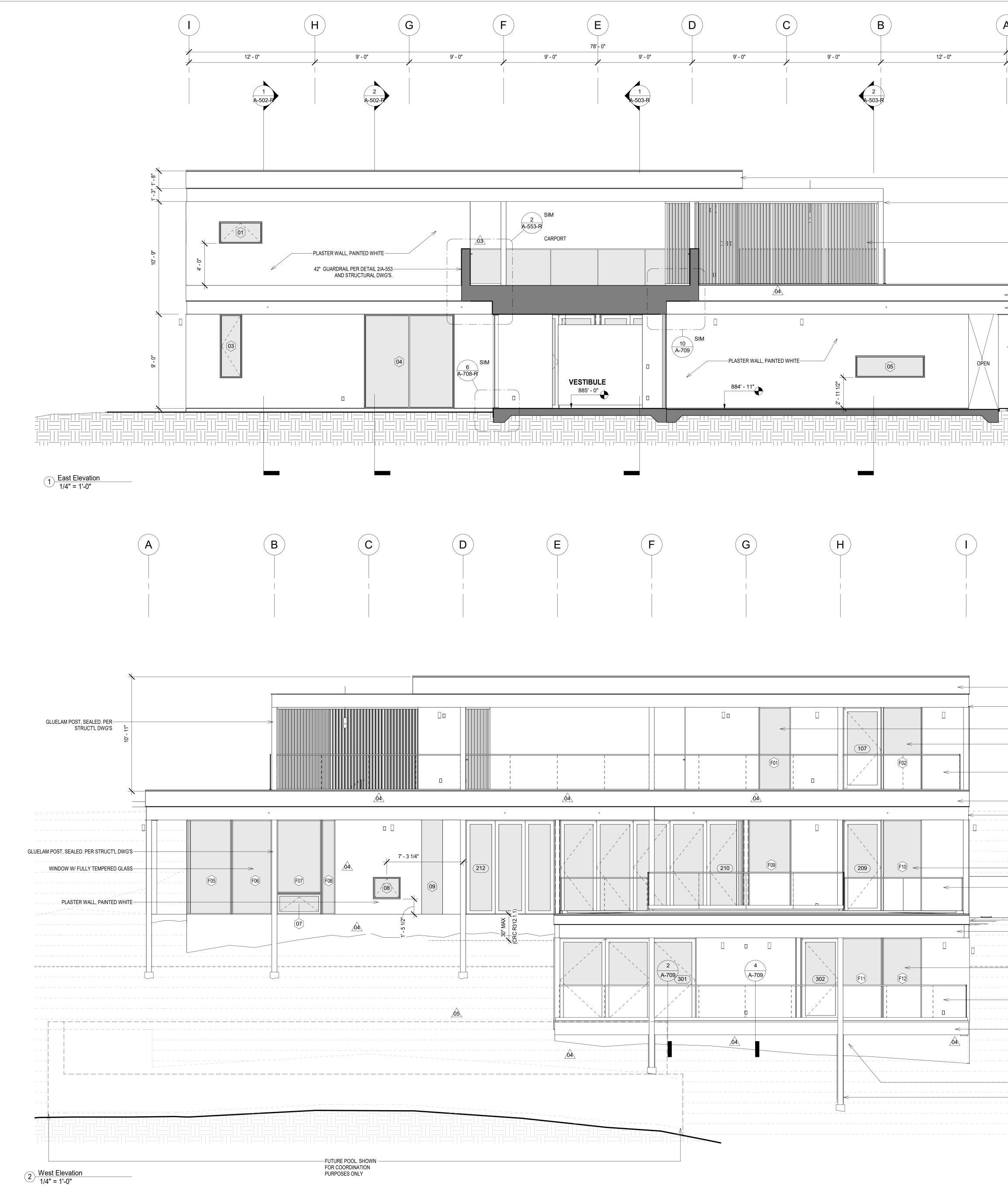
SMOKE DETECTOR

(S) CARBON MONOXIDE DETECTOR

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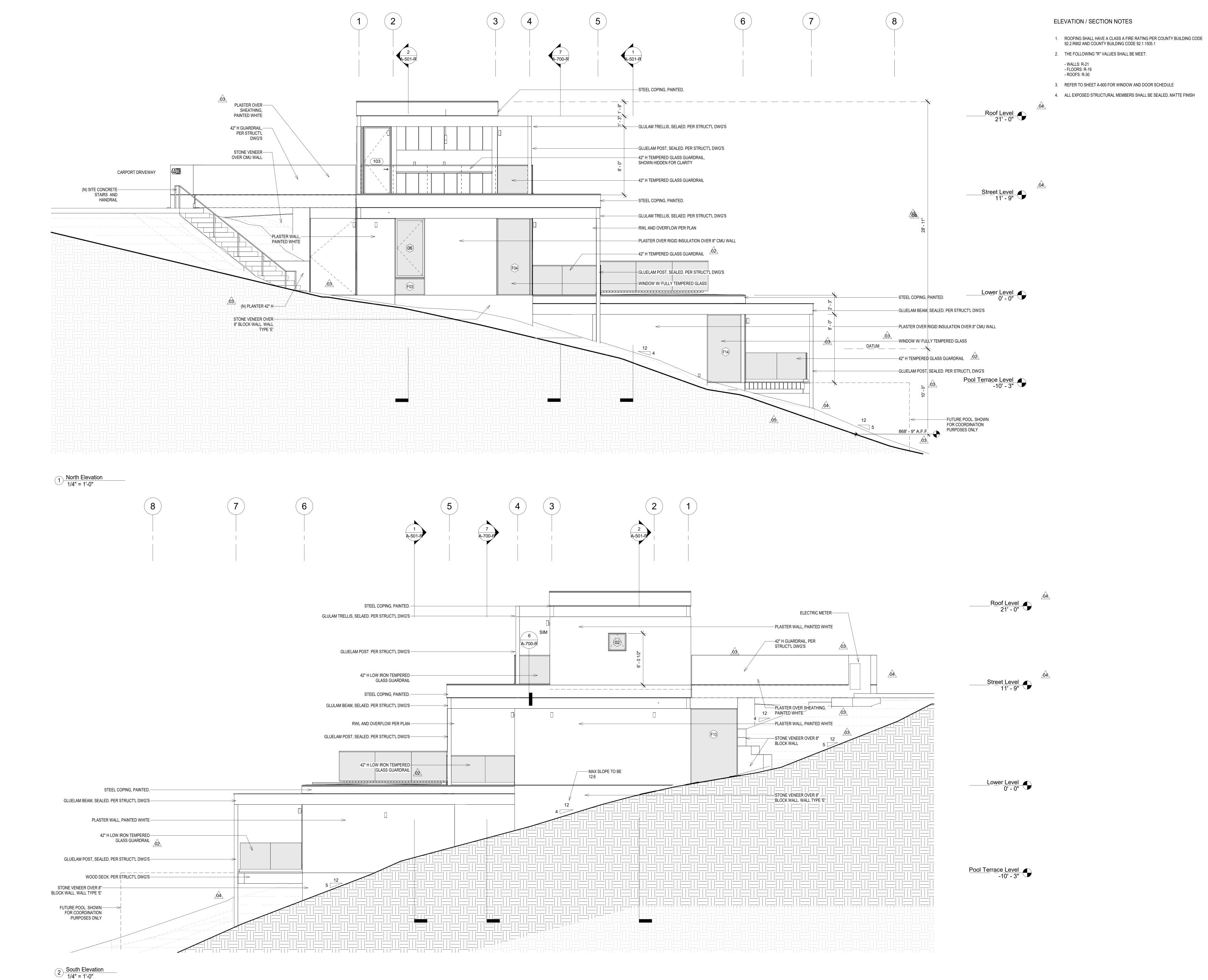
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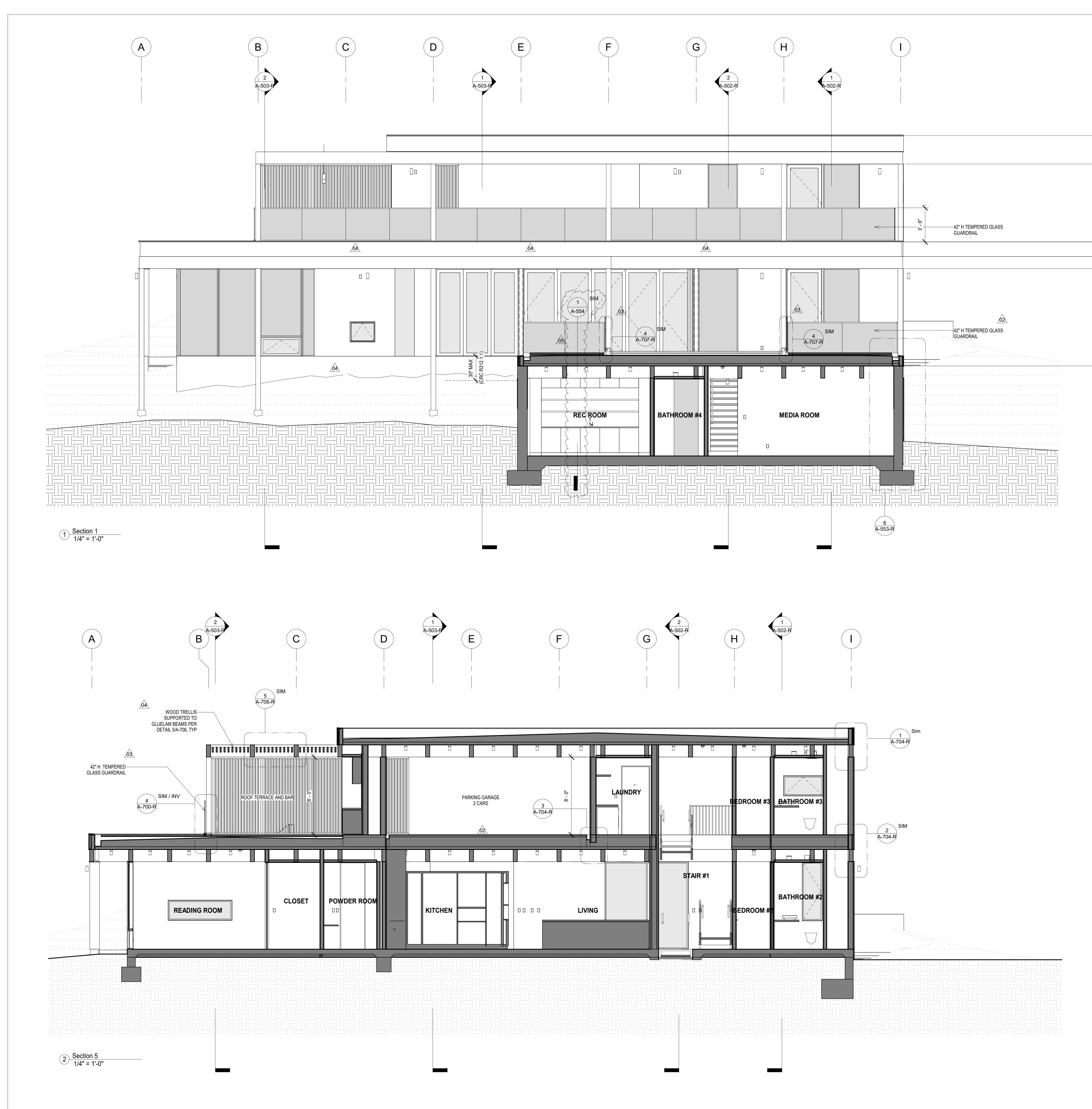
 $\frown$ (A) **ELEVATION / SECTION NOTES** 1. ROOFING SHALL HAVE A CLASS A FIRE RATING PER COUNTY BUILDING CODE 92.2.R902 AND COUNTY BUILDING CODE 92.1.1505.1 2. THE FOLLOWING "R" VALUES SHALL BE MEET: - WALLS: R-21 - FLOORS: R-19 - ROOFS: R-30 3. REFER TO SHEET A-600 FOR WINDOW AND DOOR SCHEDULE 4. ALL EXPOSED STRUCTURAL MEMBERS SHALL BE SEALED, MATTE FINISH Roof Level \_\_\_\_\_ \_ 21' - 0" —GLULAM TRELLIS, SEALED. PER STRUCT'L DWG'S — 1" x 5" WOOD LATICE, SEALED /04 \_\_\_\_ \_ <u>Street Level</u> 11' - 9" OPEN \_\_\_\_\_ \_ <u>Lower Level</u> 0' - 0"

STEEL COPING, PAINTED. GLULAM TRELLIS, SELAED. PER STRUCT'L DWG'S	<u>Roof Level</u> 21' - 0"
WINDOW W/ FULLY TEMPERED GLASS	
	<u></u> <u>Street Level</u> 11' - 9"
STEEL COPING, PAINTED. 	11-9 🔎
WINDOW W/ FULLY TEMPERED GLASS 42" H TEMPERED GLASS GUARDRAIL, SHOWN HIDDEN FOR CLARITY STEEL COPING, PAINTED. GLULAM TRELLIS, SELAED. PER STRUCT'L DWG'S	<u>Lower Level</u> 0' - 0"
	P <u>ool Terrace Level</u> -10' - 3"
WALL TYPE 'E' GLUELAM POST, SEALED. PER STRUCT'L DWG'S	Grade Level FRO
	Gr <u>ade Level FRO</u> -20' - 0"

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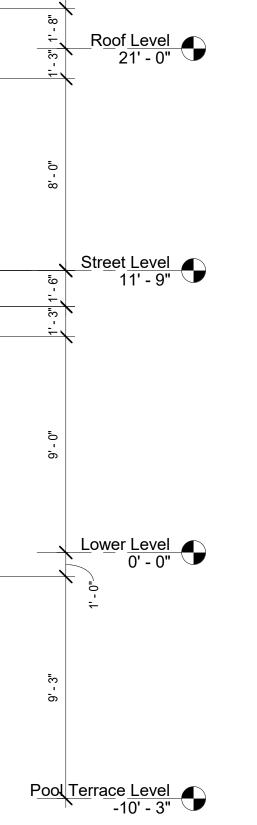
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NUMB	ZK-2018	8-01	DATE 11/27/20 SCALE 1/4" = 1'-	



Lower Level 0' - 0"

Street Level

\_\_\_\_\_ <u>Roof Level</u> 21' - 0"



- FILL OVER 2' SHALL BE COMPACTED IN ACCORDANCE WITH THE SOILS REPORT TO 90%

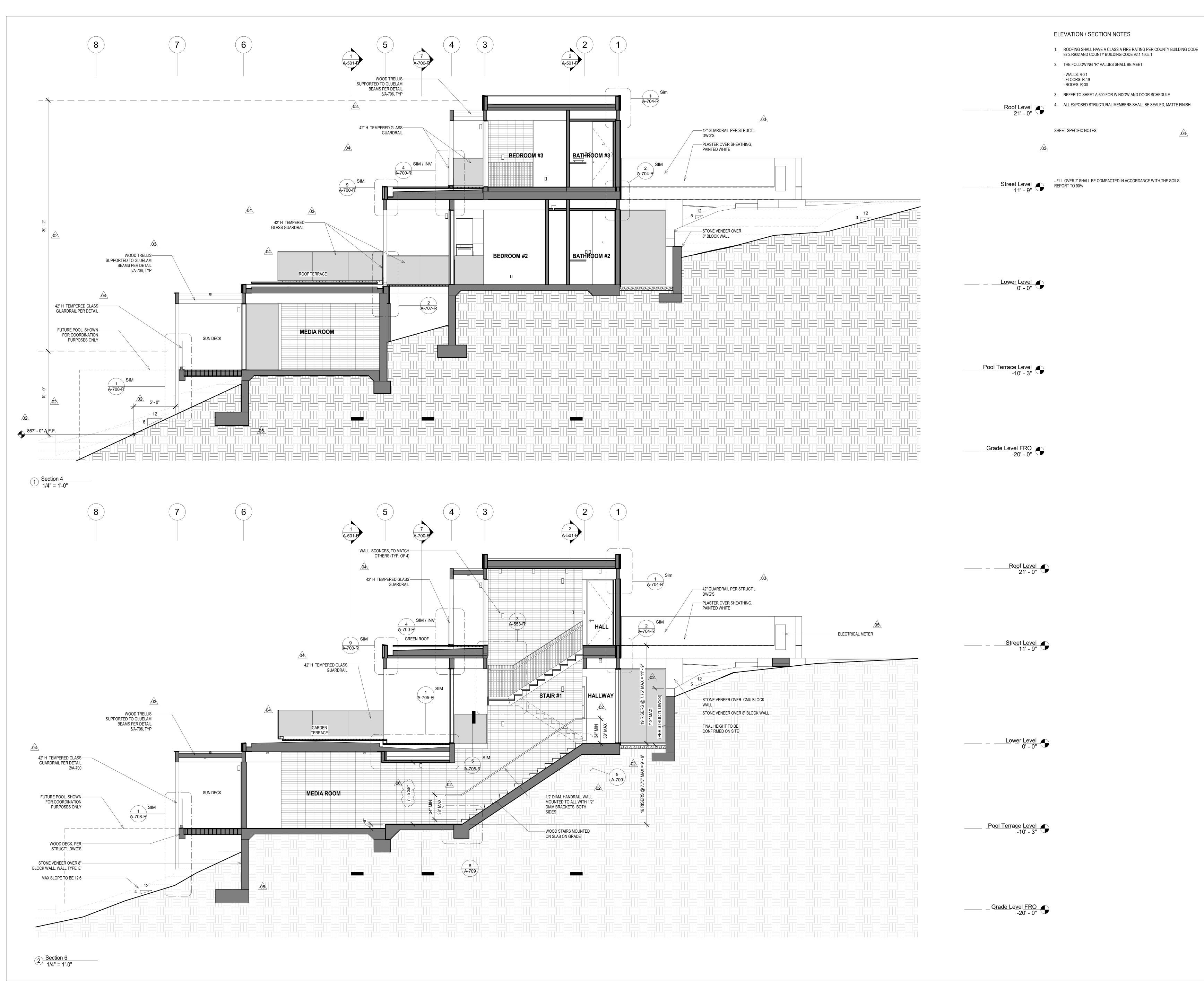
- WALLS: R-21 - FLOORS: R-19 - ROOFS: R-30 3. REFER TO SHEET A-600 FOR WINDOW AND DOOR SCHEDULE 4. ALL EXPOSED STRUCTURAL MEMBERS SHALL BE SEALED, MATTE FINISH SHEET SPECIFIC NOTES: <u>⁄03</u>

**ELEVATION / SECTION NOTES** 

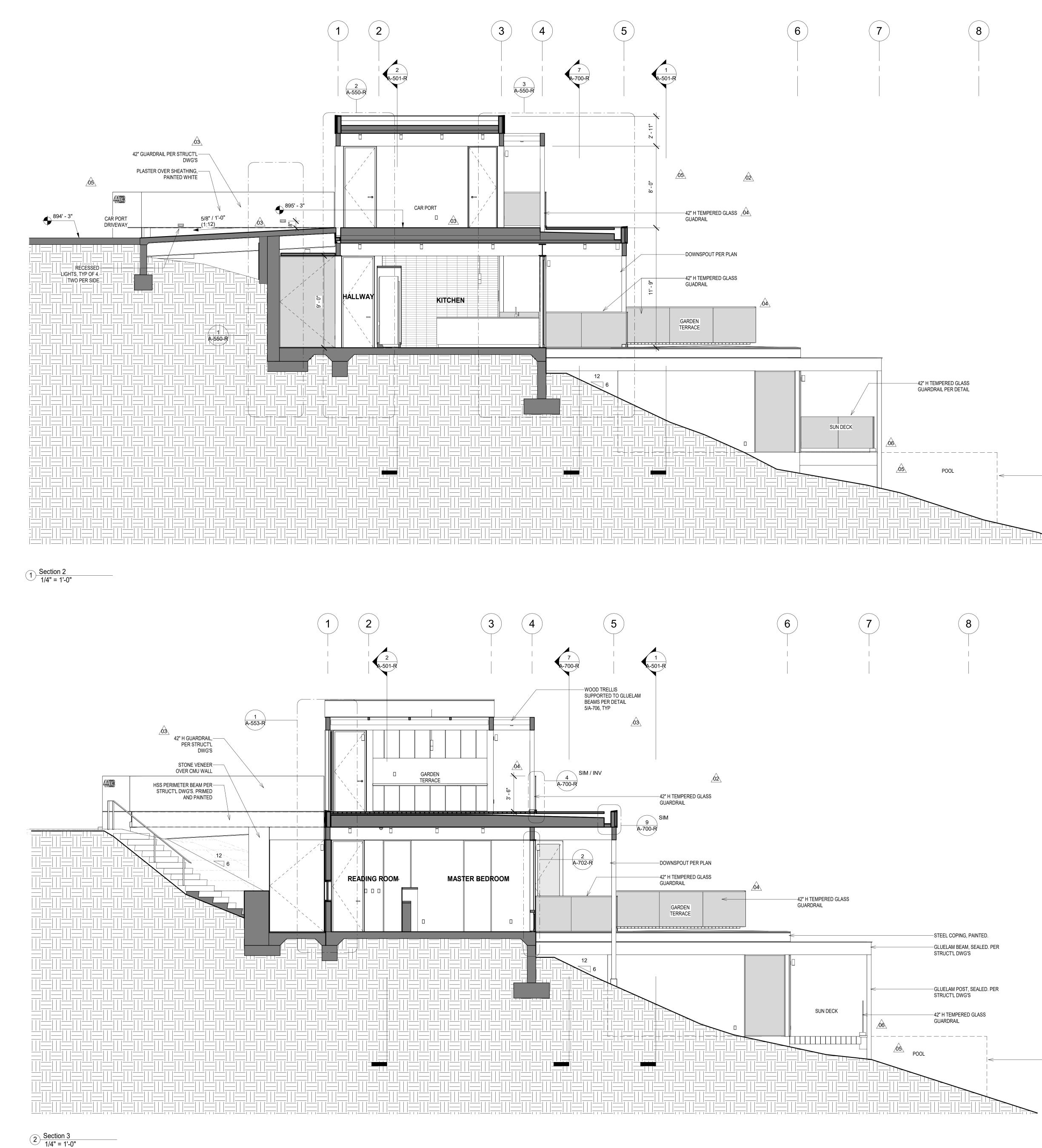
2. THE FOLLOWING "R" VALUES SHALL BE MEET:

ROOFING SHALL HAVE A CLASS A FIRE RATING PER COUNTY BUILDING CODE 92.2.R902 AND COUNTY BUILDING CODE 92.1.1505.1

THER DISSI SPEC	EIN ARE THE PROPE MINATED TO OTHER IFIED PROJECT FOR	RTY OF <b>0.1bm</b> AND SH S OR USED IN CONNEC	NS, IDEAS, IMAGES AND DRAWING ALL NOT BE REPRODUCED, DISCLO CTION WITH ANY WORK OTHER TH JEN PREPARED, IN WHOLE OR IN F IN OF <b>0.Ibm</b>	OSED OR AN THE		
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-FUTURE POOL. SHOWN FOR COORDINATION PURPOSES ONLY

Pool <u>Terrace Level</u> -10' - 3"

\_\_\_\_ \_ <u>Lower Level</u>

\_\_\_\_ \_ <u>Street Level</u> 11' - 9"

\_\_\_\_ \_ <u>Roof Level</u> 21' - 0"

Street Level 11' - 9" (+895'-3") Lower Level 0' - 0" (+883'-6") -10' - 3" 🔽 (+873'-3")

-FUTURE POOL. SHOWN FOR COORDINATION

PURPOSES ONLY

Roof Level 21' - 0"

(+904'-6")

- FILL OVER 2' SHALL BE COMPACTED IN ACCORDANCE WITH THE SOILS REPORT TO 90%

1. ROOFING SHALL HAVE A CLASS A FIRE RATING PER COUNTY BUILDING CODE 92.2.R902 AND COUNTY BUILDING CODE 92.1.1505.1 2. THE FOLLOWING "R" VALUES SHALL BE MEET: - WALLS: R-21 - FLOORS: R-19

4. ALL EXPOSED STRUCTURAL MEMBERS SHALL BE SEALED, MATTE FINISH

04

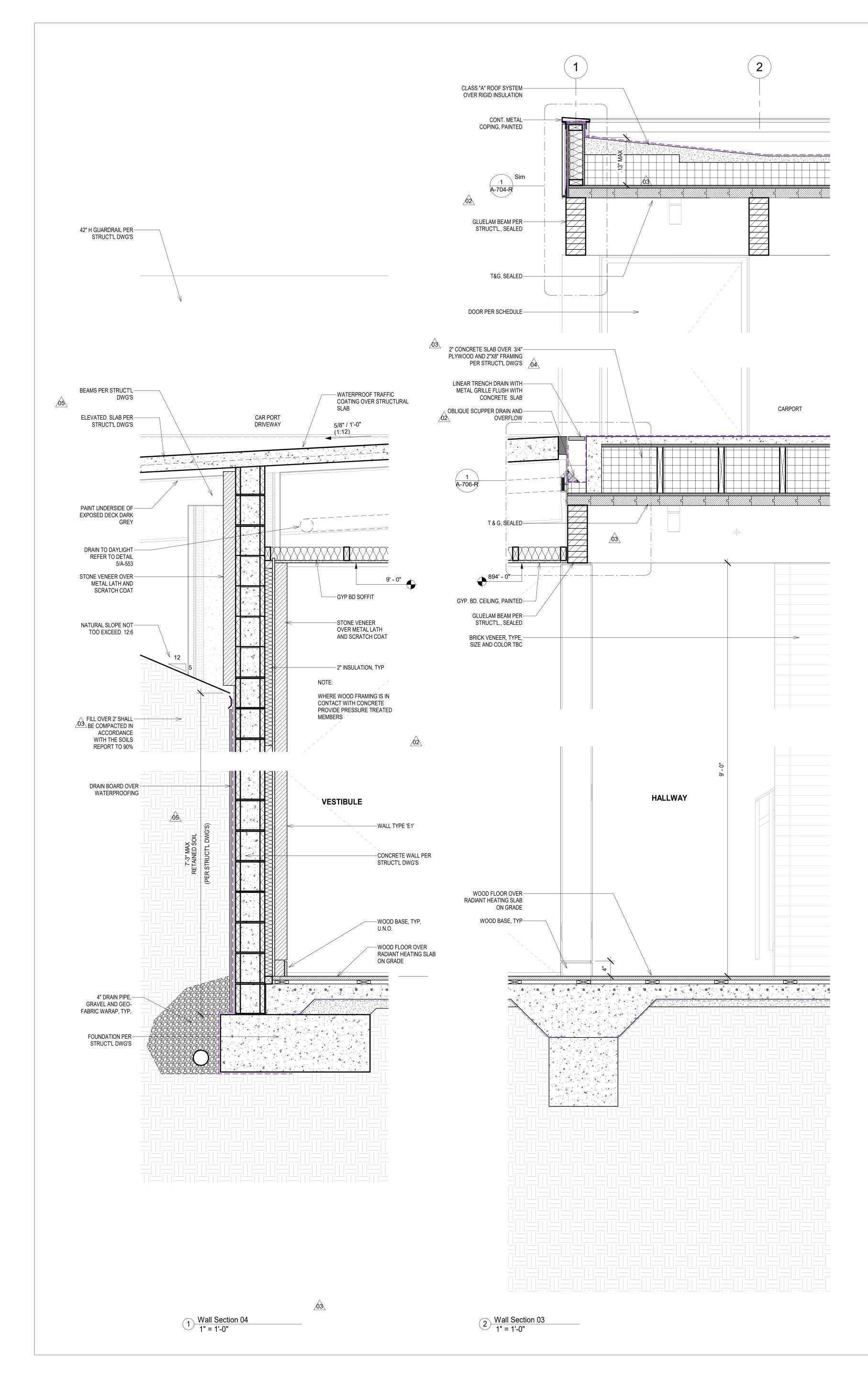
3. REFER TO SHEET A-600 FOR WINDOW AND DOOR SCHEDULE

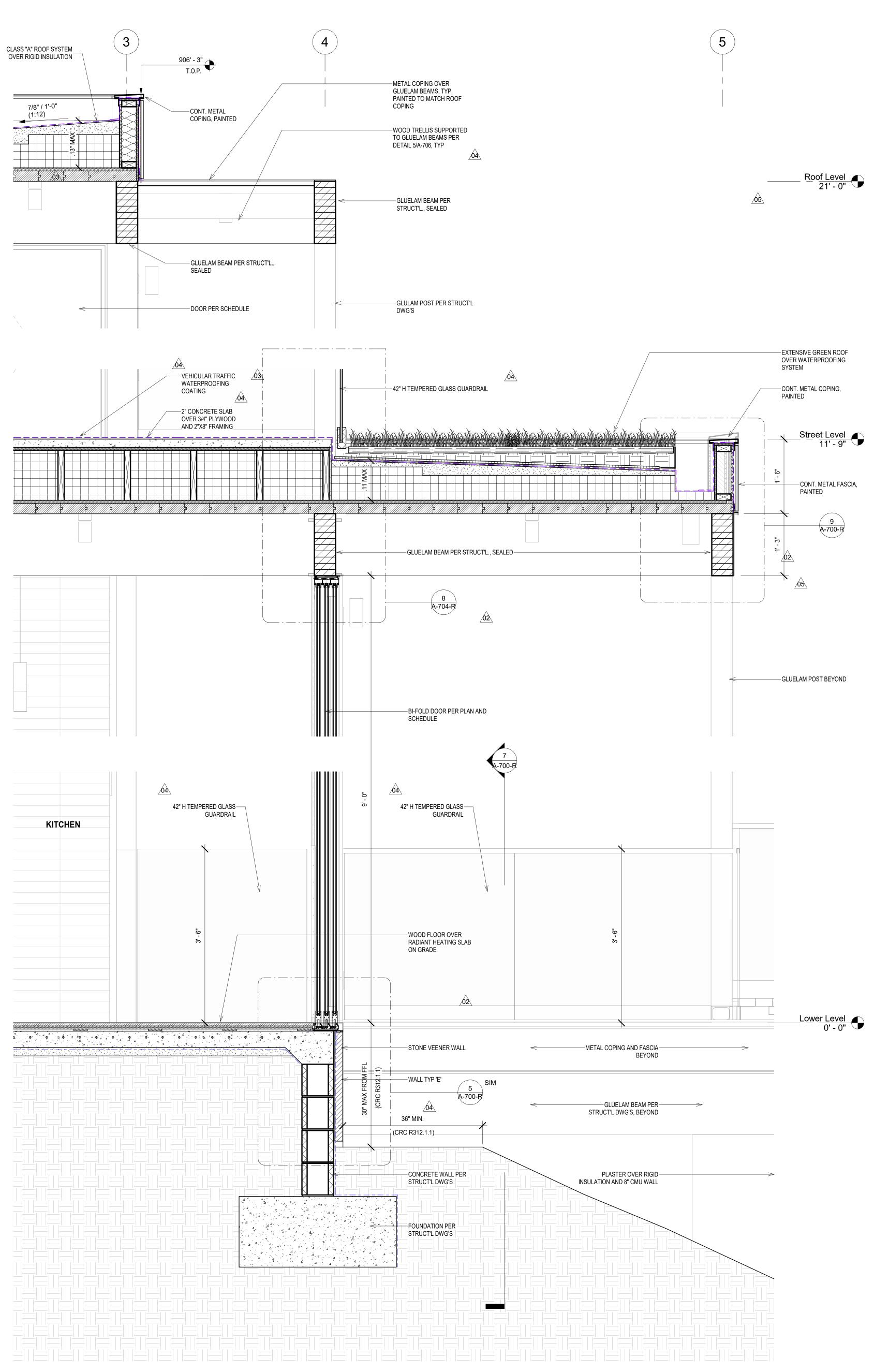
**ELEVATION / SECTION NOTES** 

- ROOFS: R-30

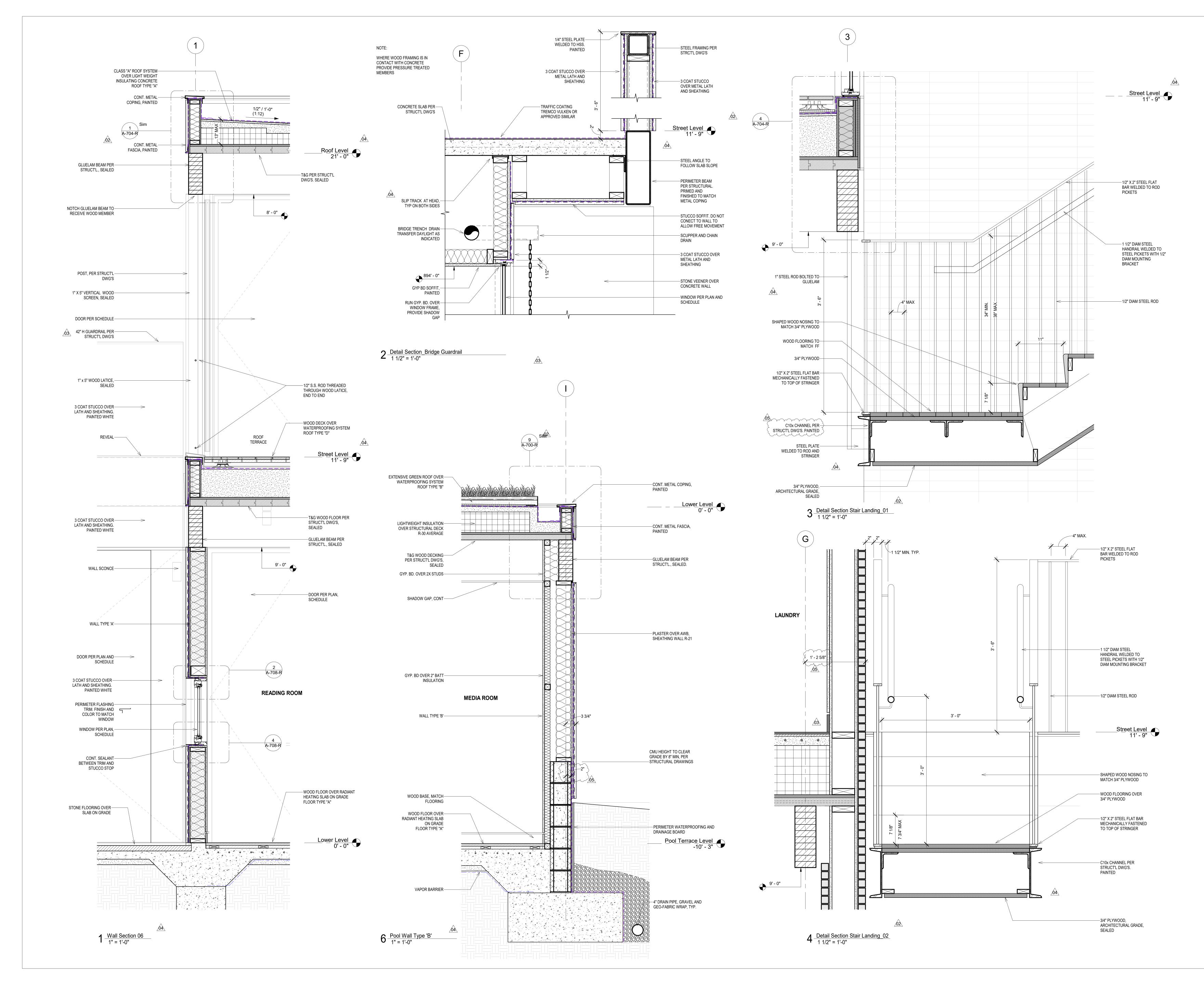
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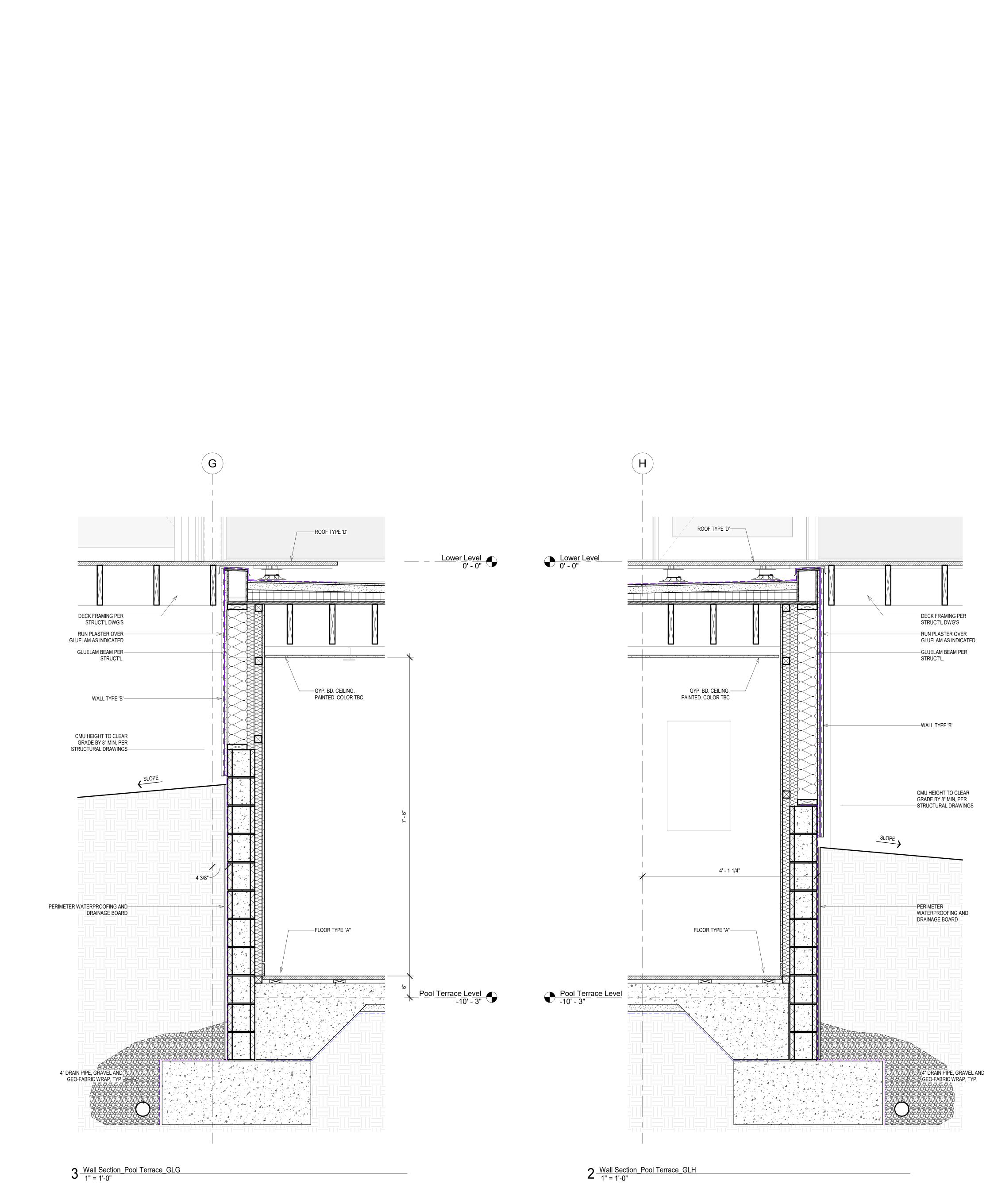


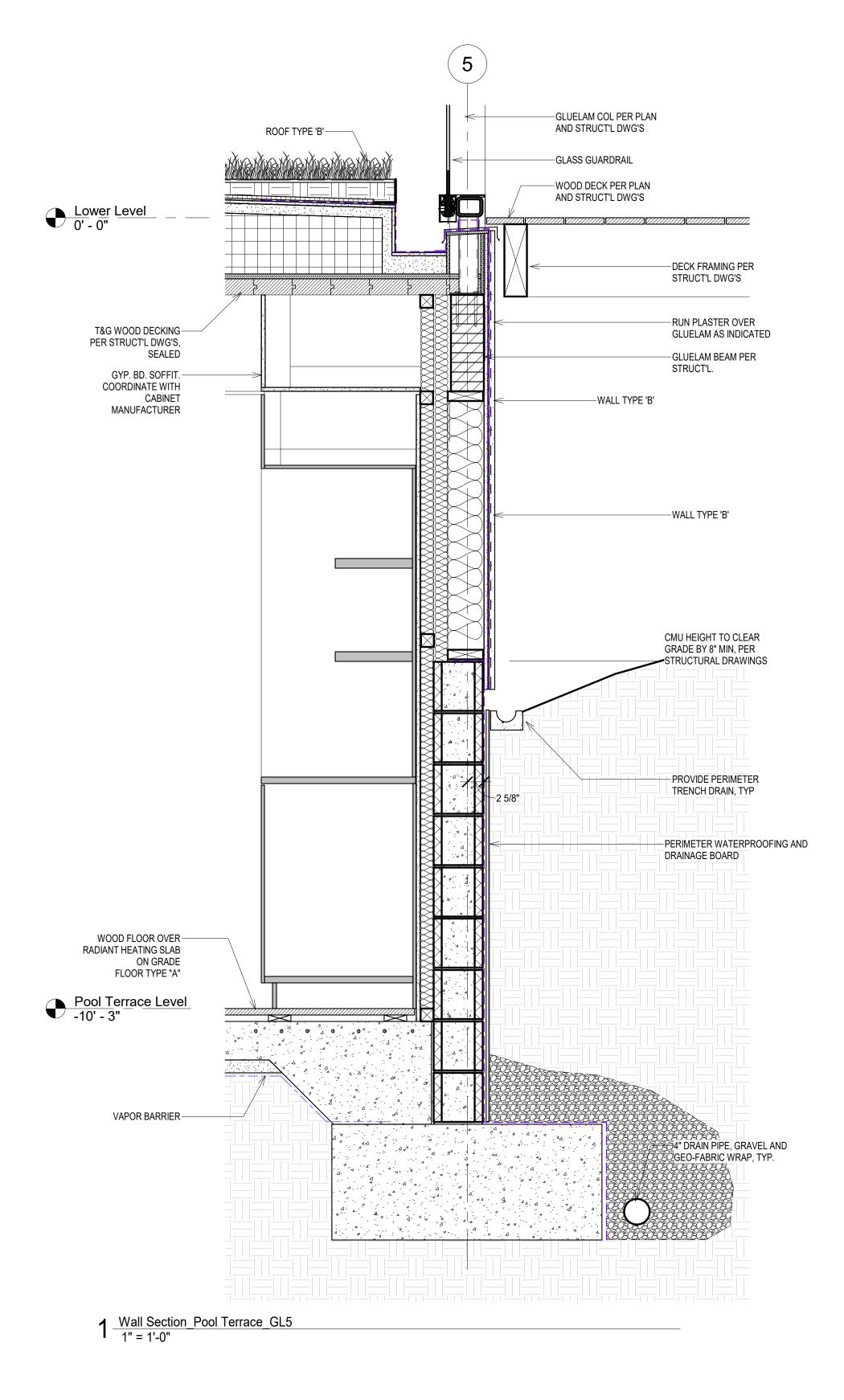


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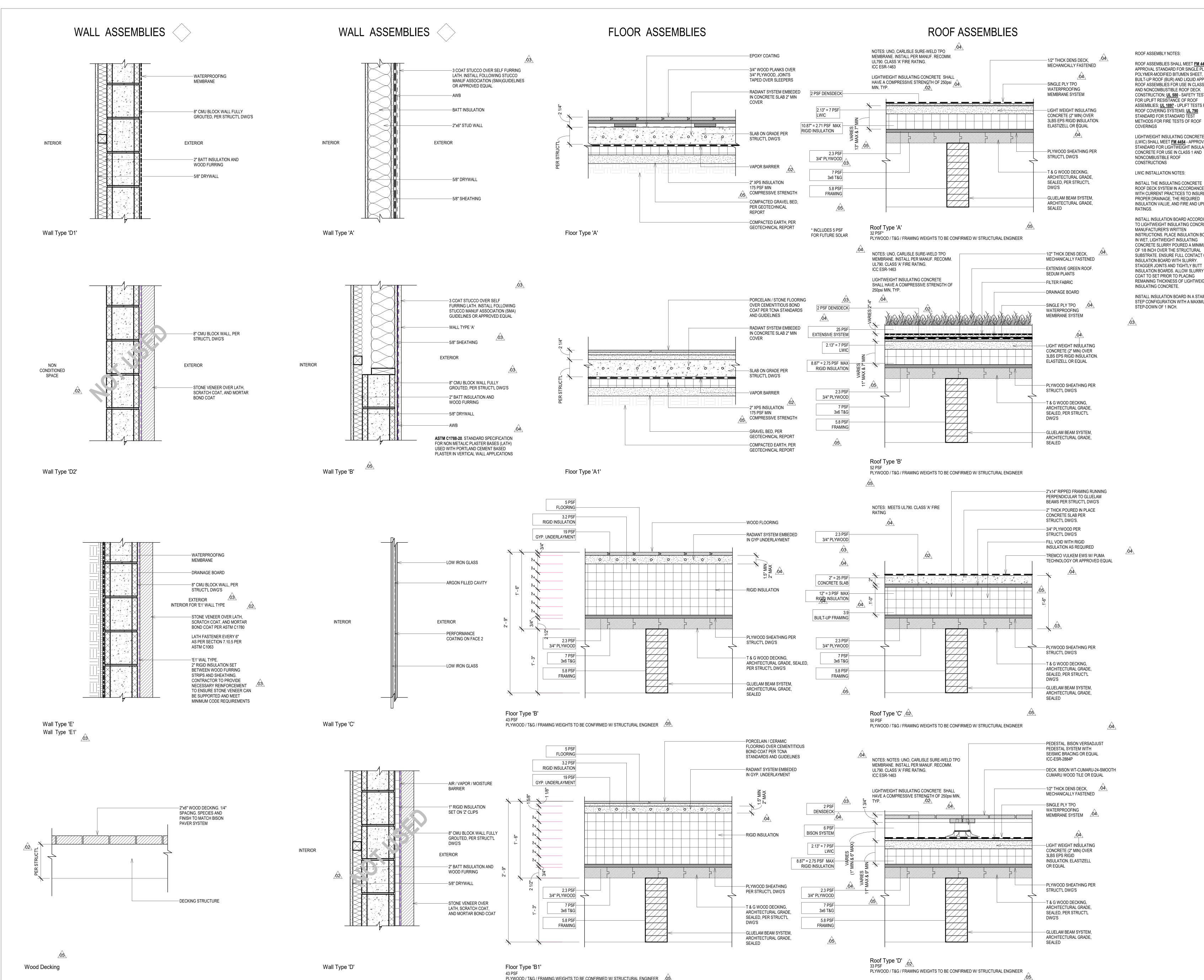


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PLYWOOD / T&G / FRAMING WEIGHTS TO BE CONFIRMED W/ STRUCTURAL ENGINEER /05

# ROOF ASSEMBLY NOTES:

ROOF ASSEMBLIES SHALL MEET FM 4470 -APPROVAL STANDARD FOR SINGLE PLY, POLYMER-MODIFIED BITUMEN SHEET, BUILT-UP ROOF (BUR) AND LIQUID APPLIED ROOF ASSEMBLIES FOR USE IN CLASS 1 AND NONCOMBUSTIBLE ROOF DECK CONSTRUCTION; <u>UL 580</u> - SAFETY TESTING FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES; <u>UL 1897</u> - UPLIFT TESTS FOR ROOF COVERING SYSTEMS; <u>UL 790</u> STANDARD FOR STANDARD TEST METHODS FOR FIRE TESTS OF ROOF

LIGHTWEIGHT INSULATING CONCRETE (LWIC) SHALL MEET <u>FM 4454</u> - APPROVAL STANDARD FOR LIGHTWEIGHT INSULATING CONCRETE FOR USE IN CLASS 1 AND NONCOMBUSTIBLE ROOF CONSTRUCTIONS

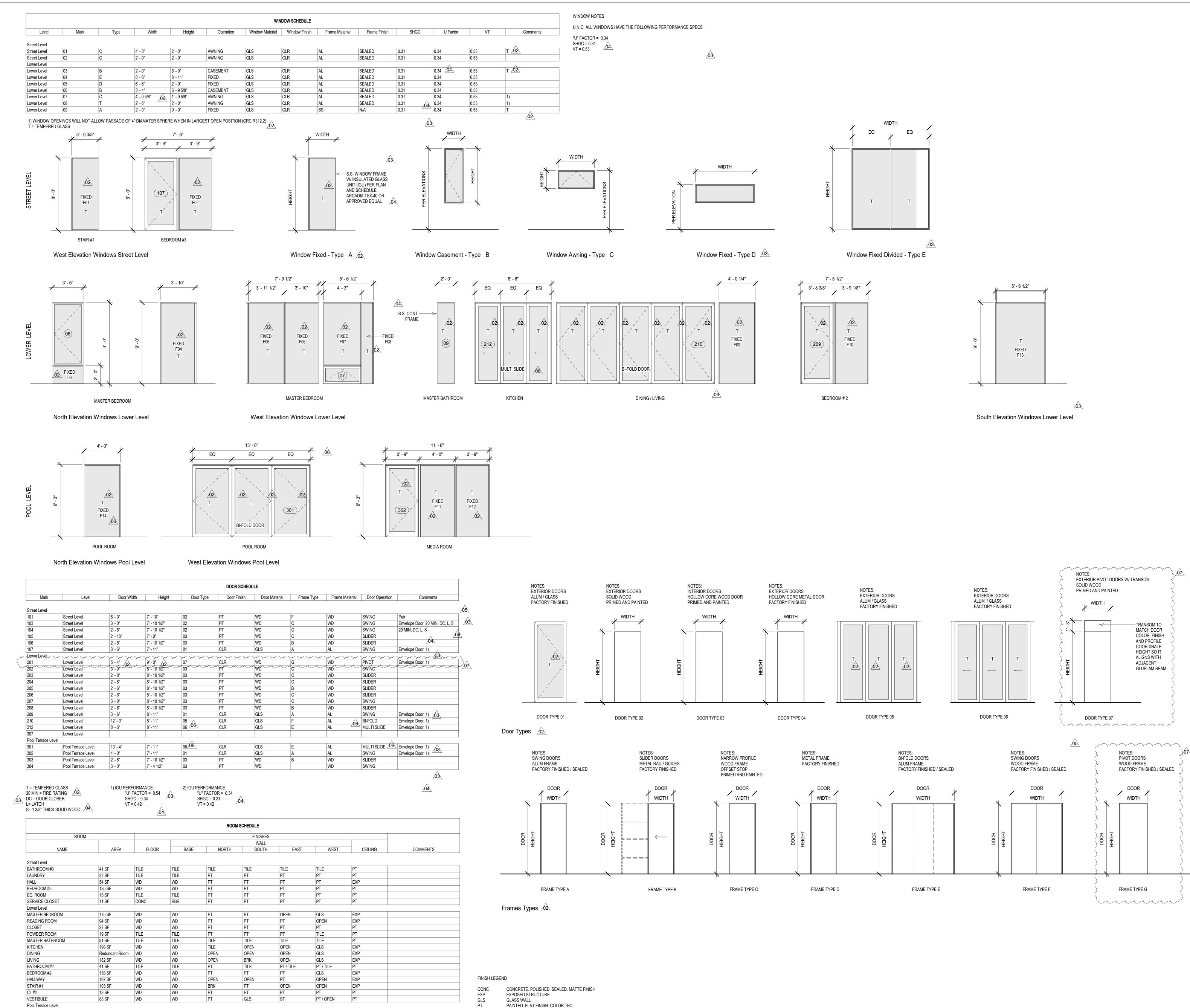
LWIC INSTALLATION NOTES:

ROOF DECK SYSTEM IN ACCORDANCE WITH CURRENT PRACTICES TO INSURE PROPER DRAINAGE, THE REQUIRED INSULATION VALUE, AND FIRE AND UPLIFT

INSTALL INSULATION BOARD ACCORDING TO LIGHTWEIGHT INSULATING CONCRETE MANUFACTURER'S WRITTEN INSTRUCTIONS. PLACE INSULATION BOARD IN WET, LIGHTWEIGHT INSULATING CONCRETE SLURRY POURED A MINIMUM OF 1/8 INCH OVER THE STRUCTURAL SUBSTRATE. ENSURE FULL CONTACT OF INSULATION BOARD WITH SLURRY. STAGGER JOINTS AND TIGHTLY BUTT INSULATION BOARDS. ALLOW SLURRY COAT TO SET PRIOR TO PLACING REMAINING THICKNESS OF LIGHTWEIGHT

INSTALL INSULATION BOARD IN A STAIR-STEP CONFIGURATION WITH A MAXIMUM

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COMMENTS
4

REC ROOM

BATHROOM #4

MEDIA ROOM

VESTIBULE

SERVICE

213 SF

29 SF

316 SF

49 SF

47 SF

WD

TILE

PT / TILE

PT / TILE

OPEN

PAINTED. FLAT FINISH. COLOR TBD RUBBER BASE. COLOR TBD STONE VEENER

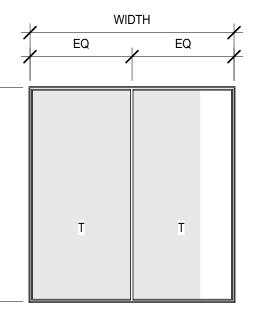
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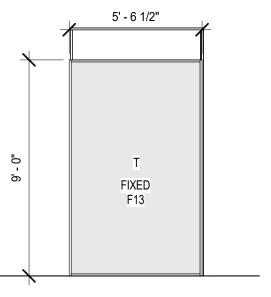
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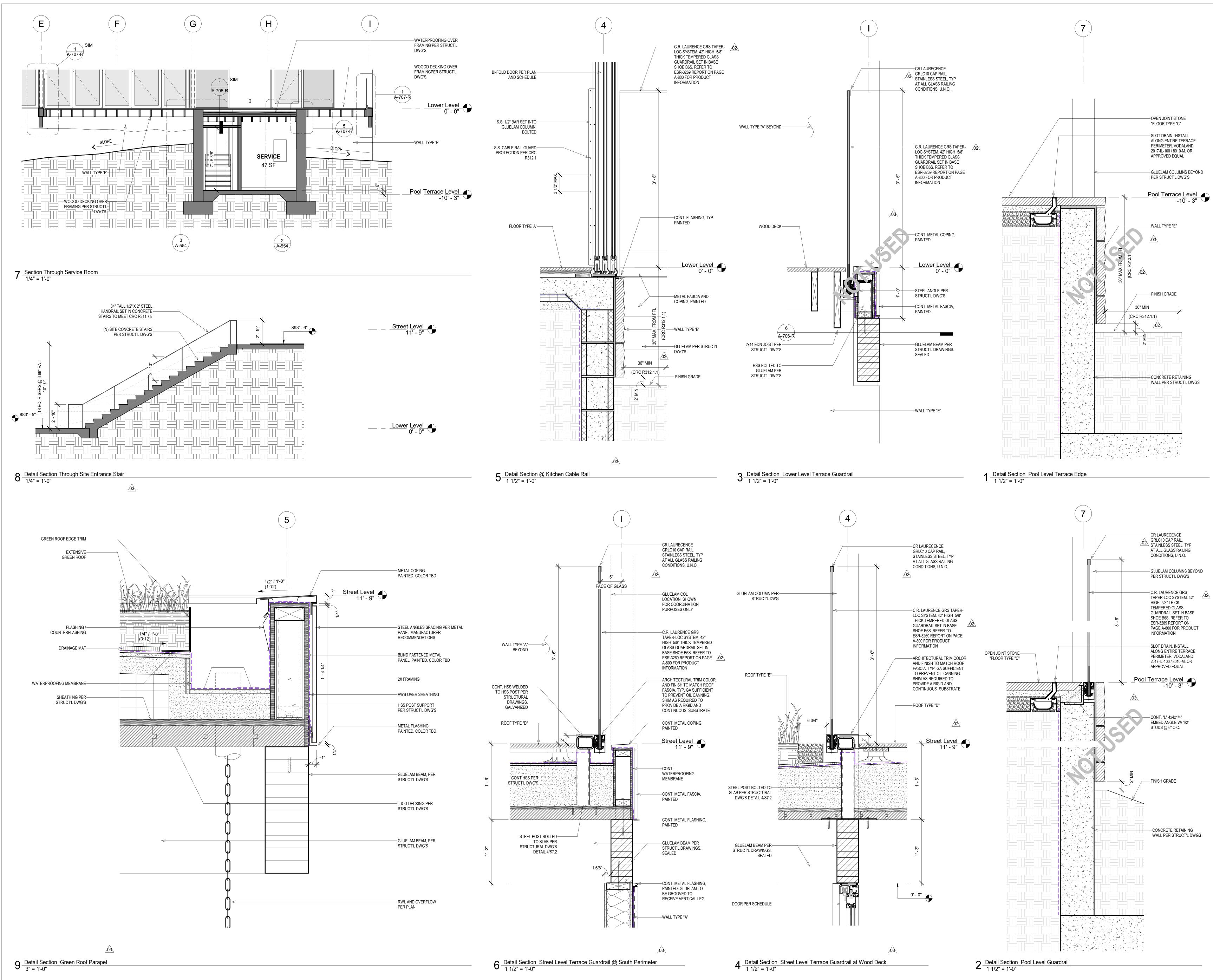
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PORCELAIN TILE. TYPE / FINISH TBD WOOD FLOORING. DOUGLAS FIR. TIGHT GRAIN. SEALED. MATTE FINISH

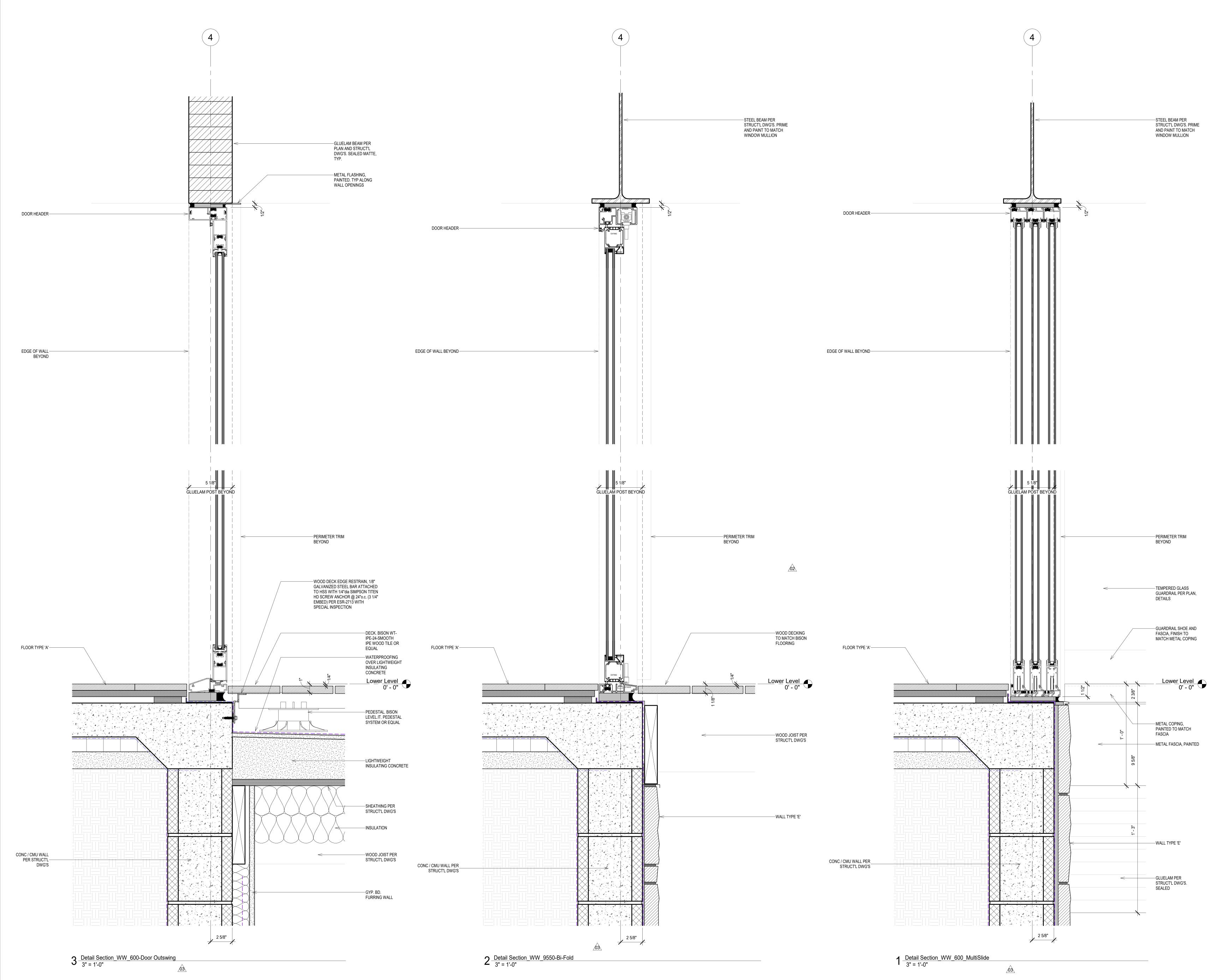




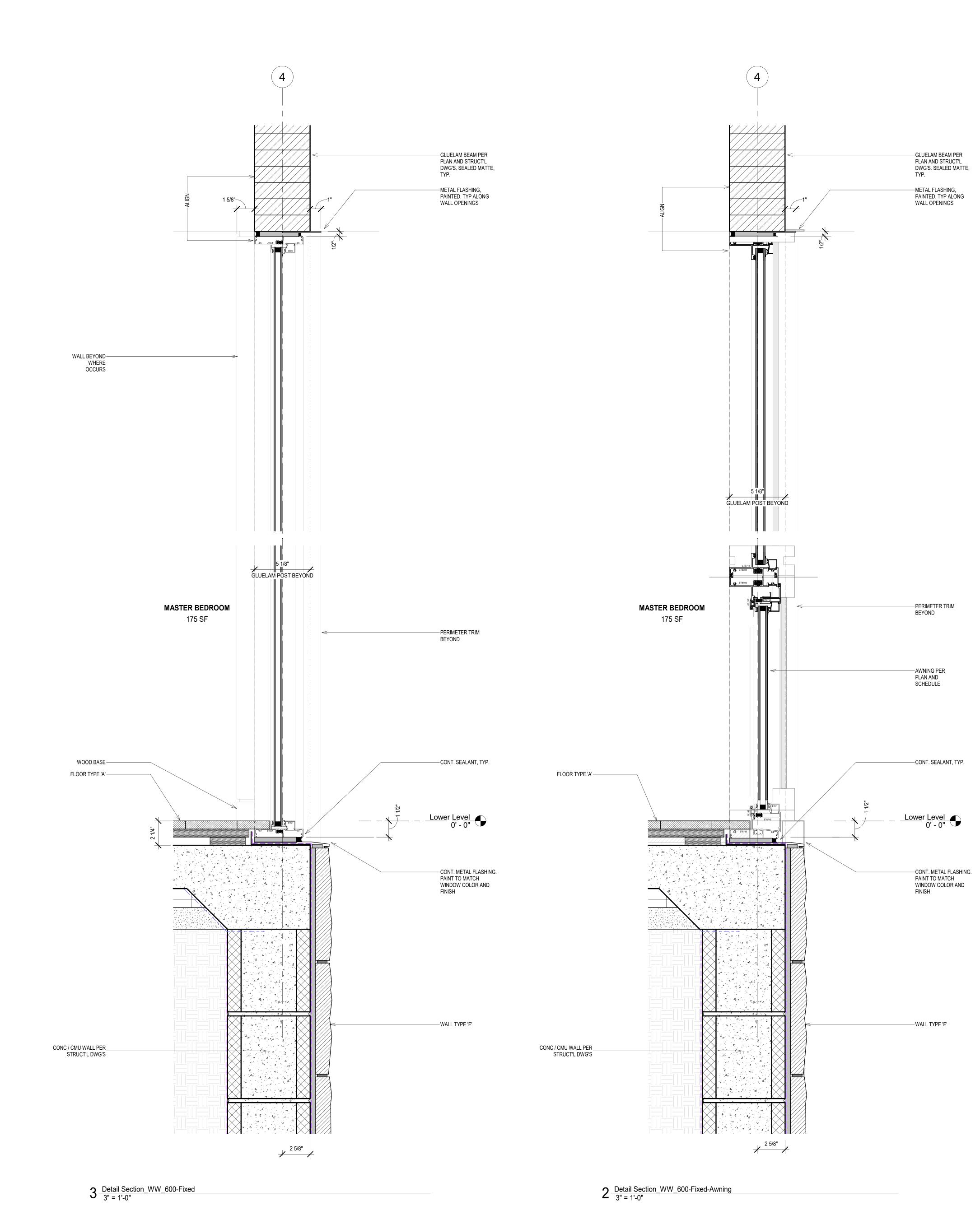
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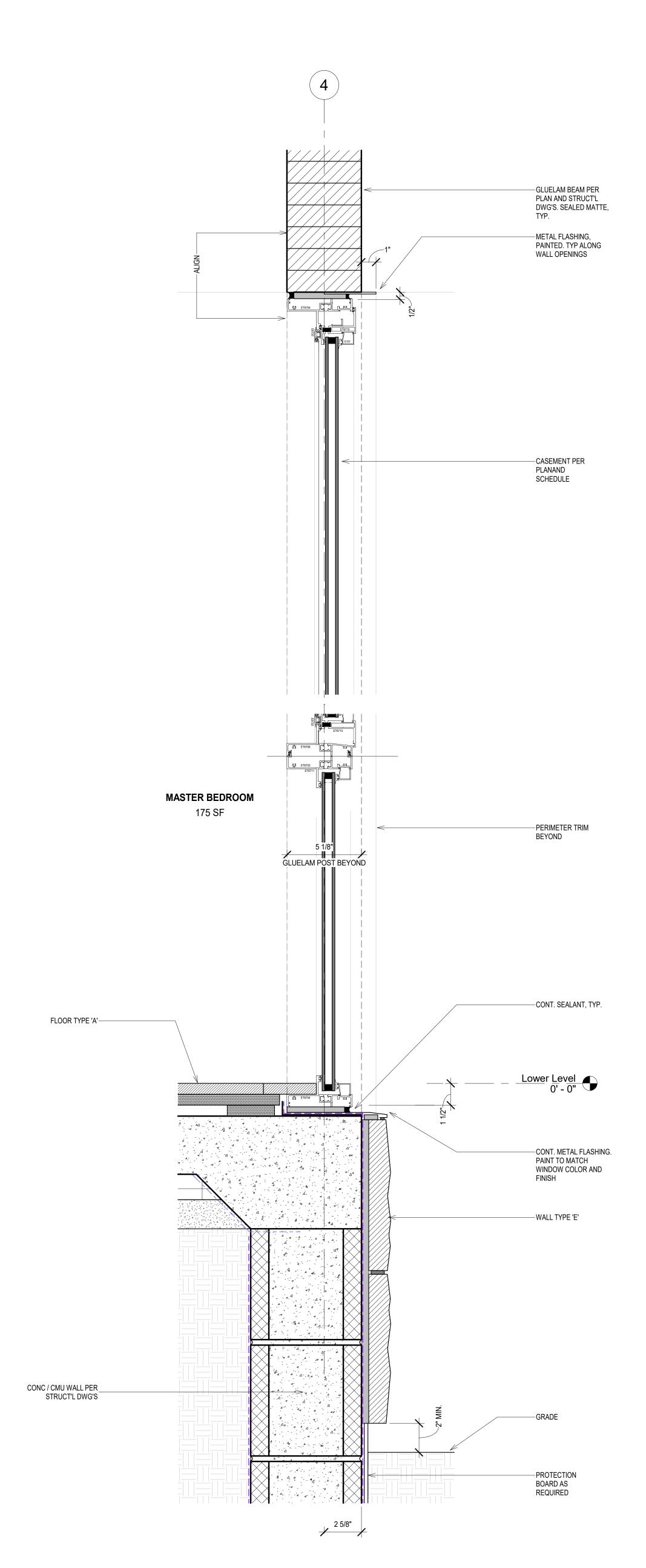
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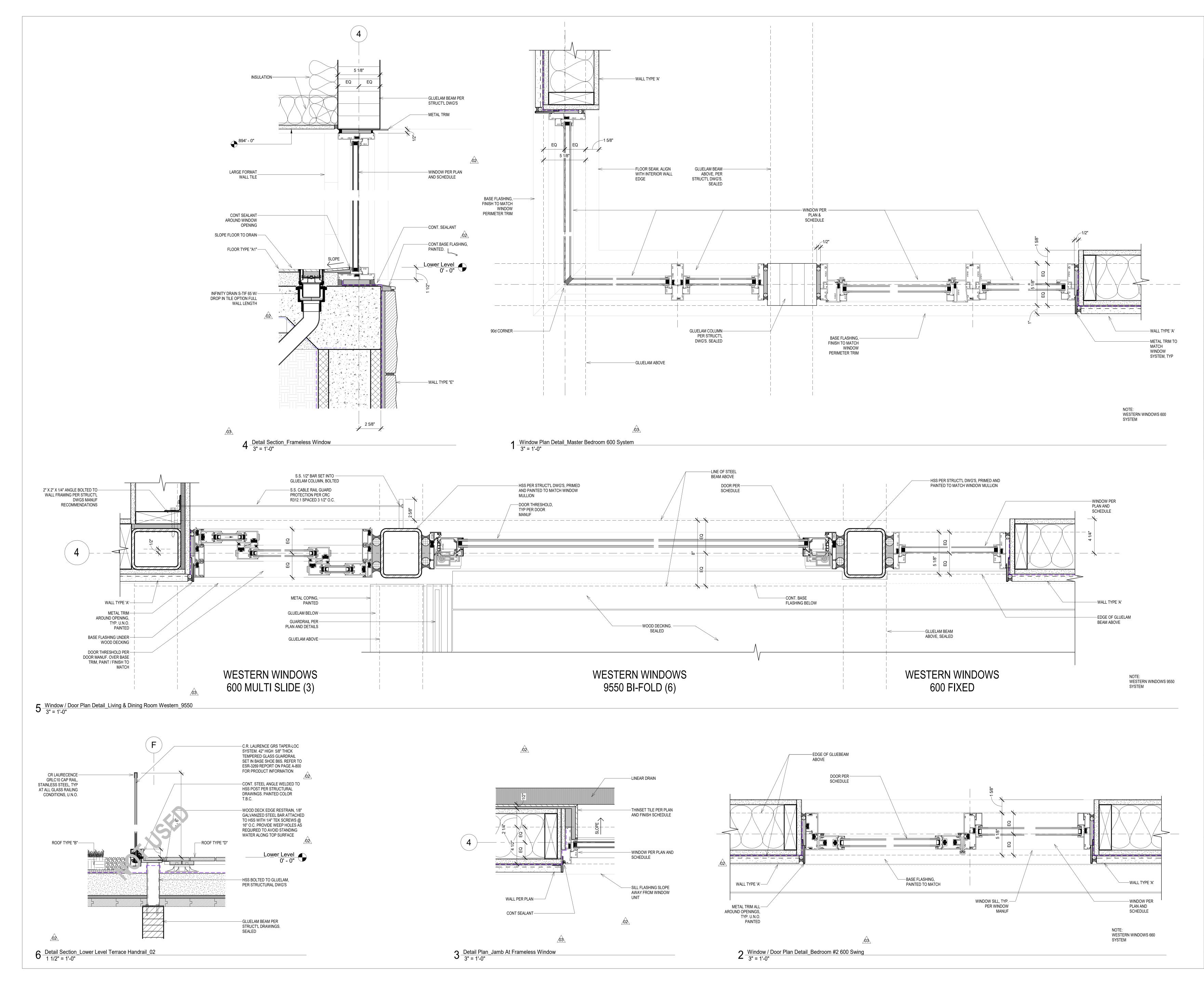
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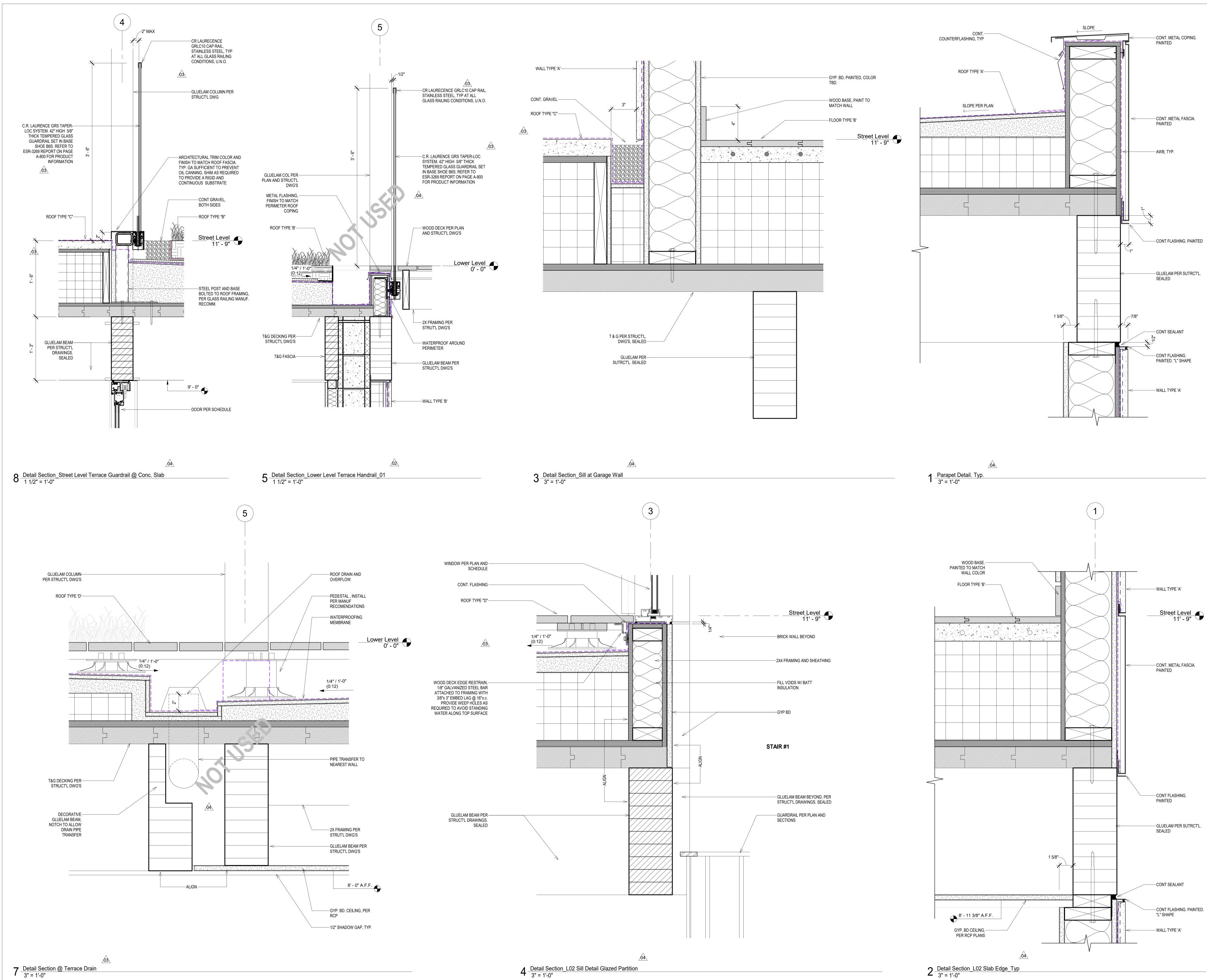
# 1 <u>Detail Section\_WW\_600-Fixed-Casement</u> 3" = 1'-0"



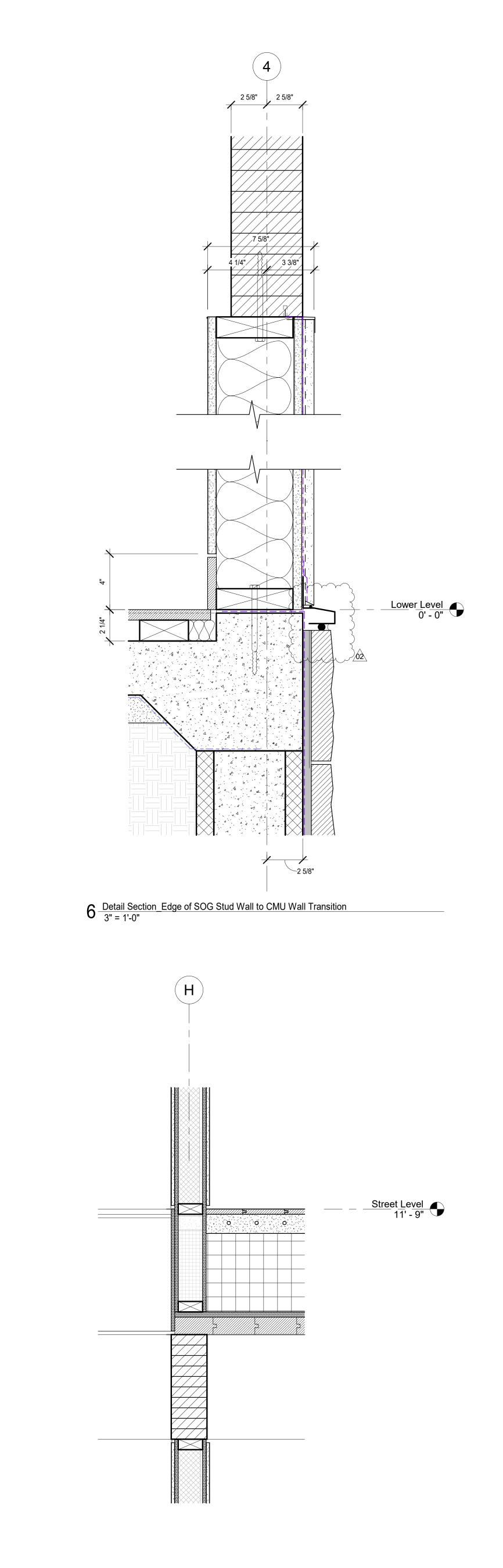
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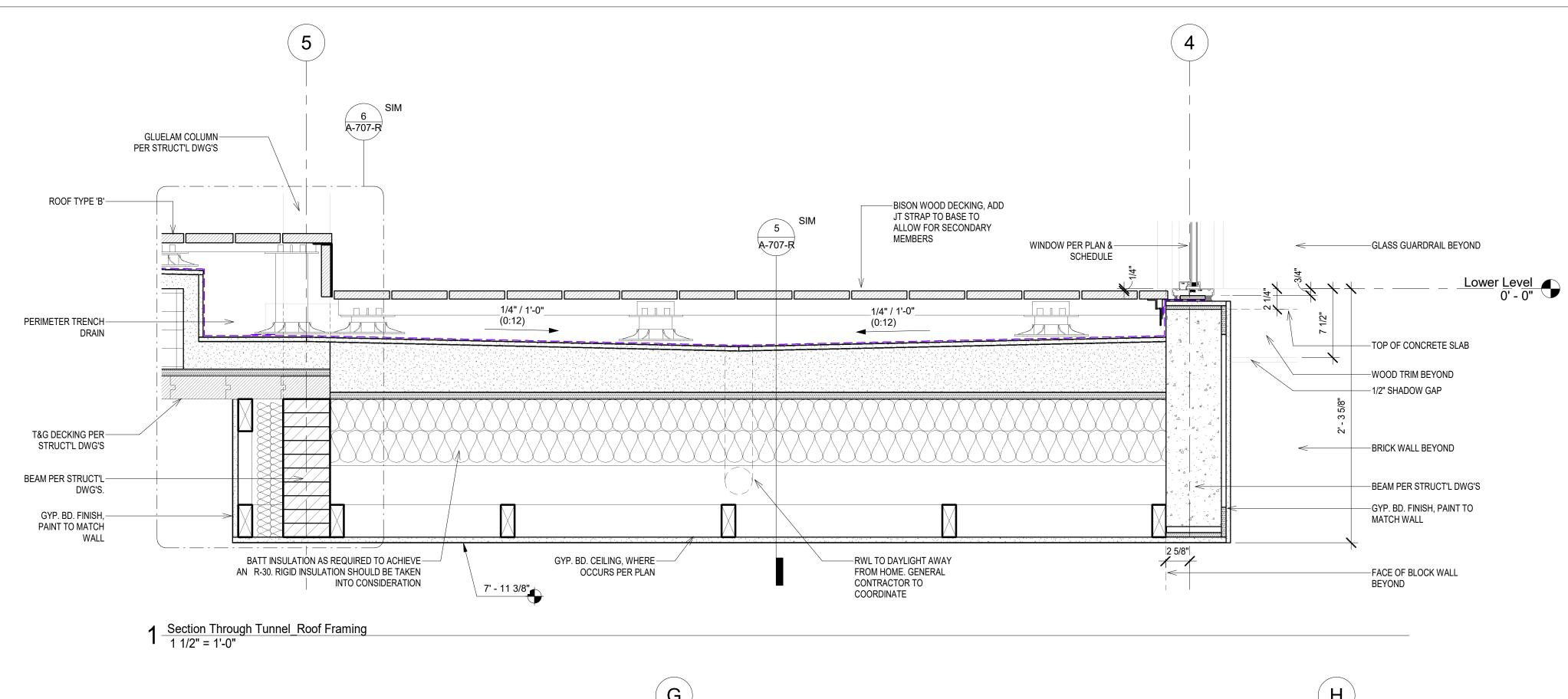


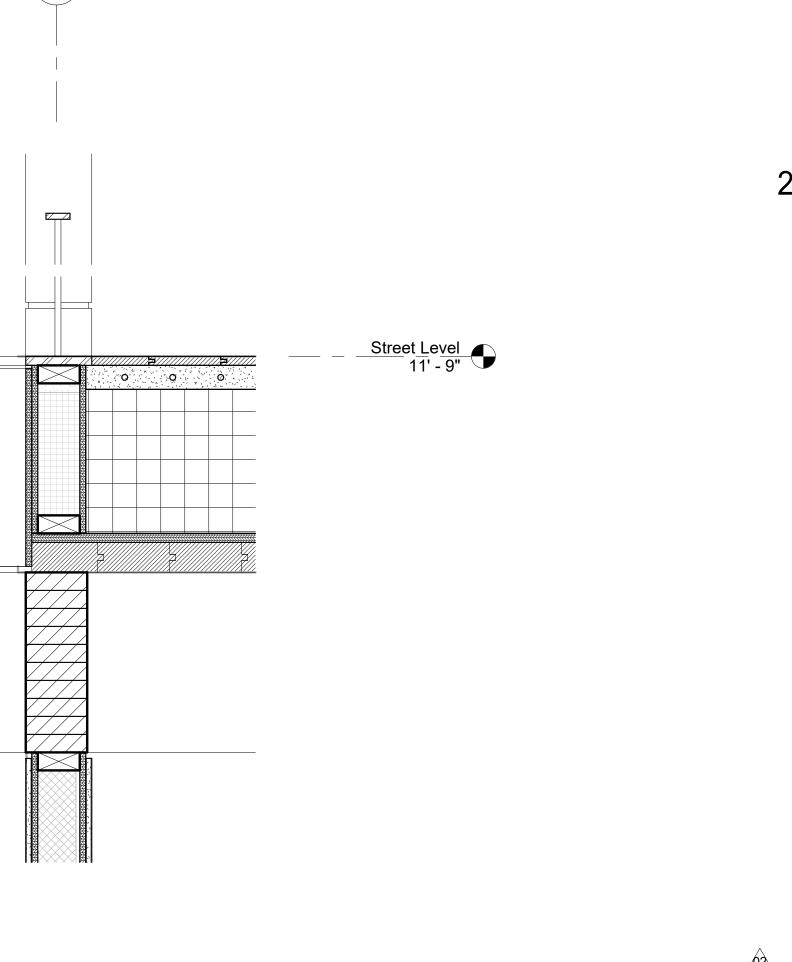
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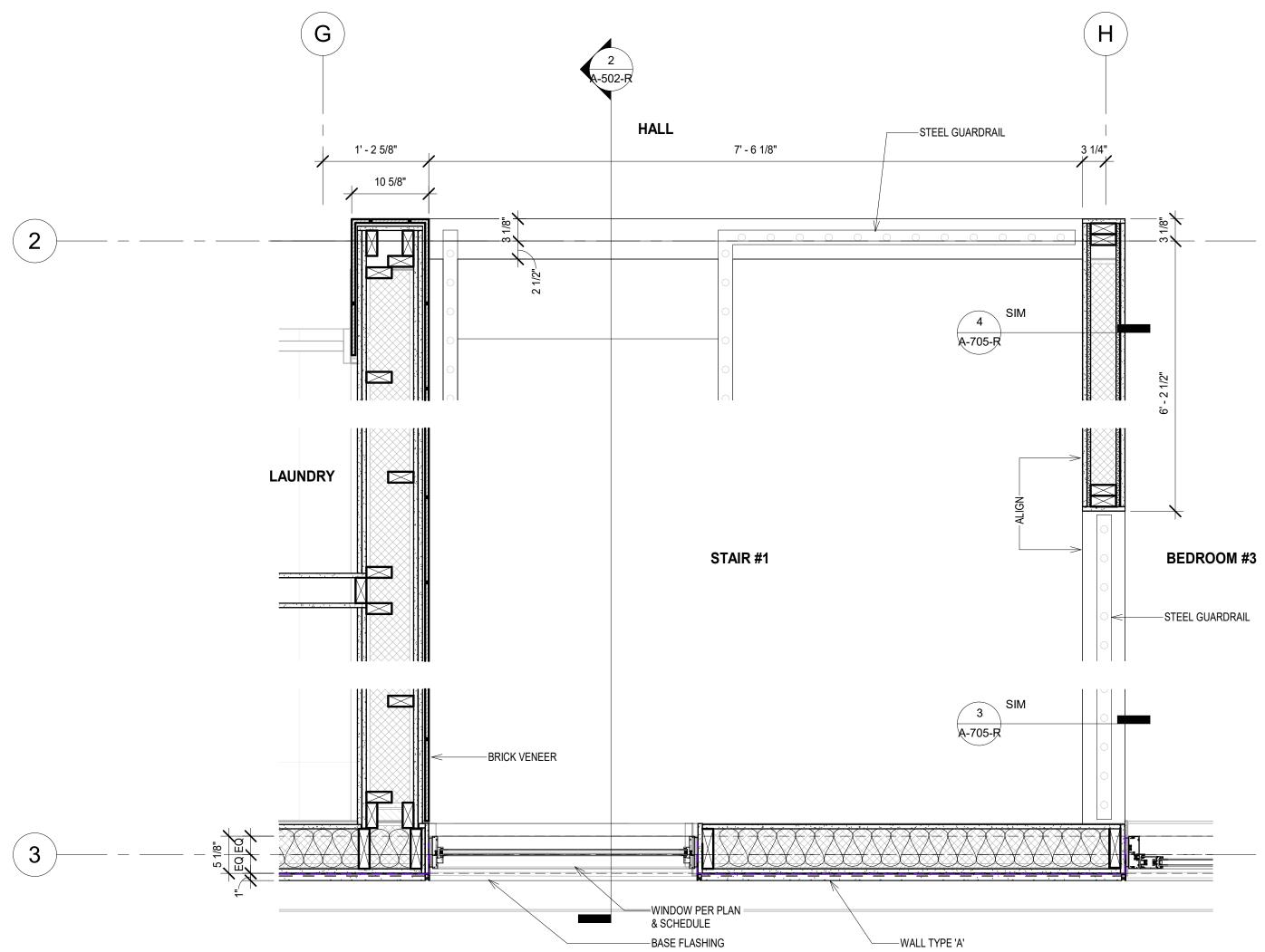


4 Detail Section @ Stair L02 Opening\_Wall 1 1/2" = 1'-0" \_\_\_\_\_

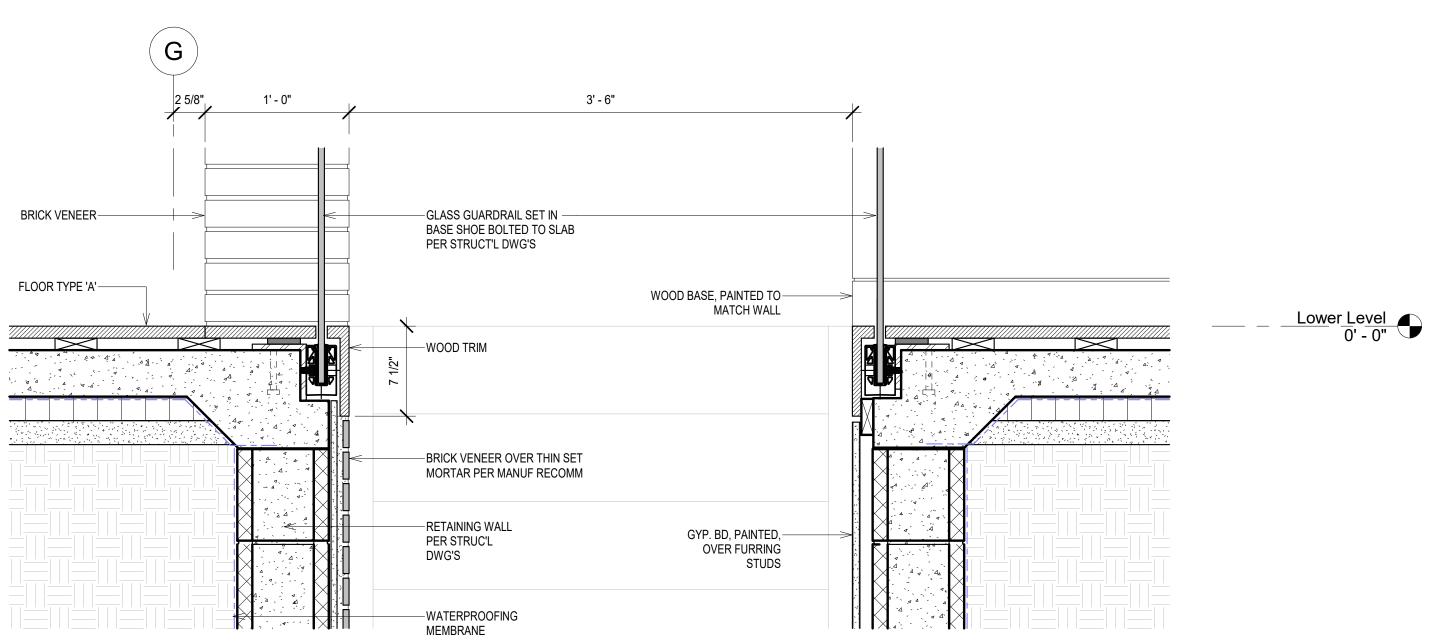
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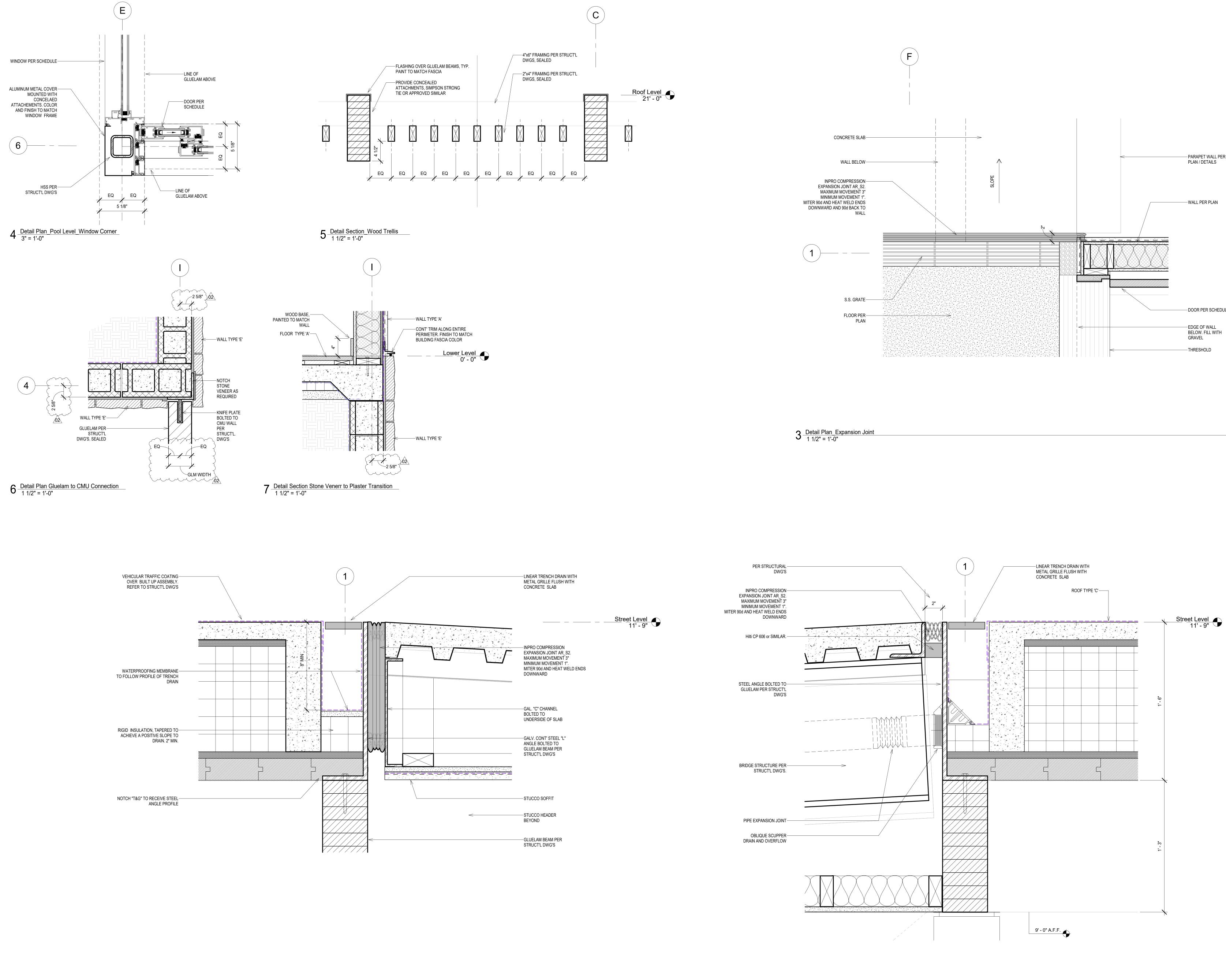


2 Detail Plan\_Stair Opening\_L02 1" = 1'-0"

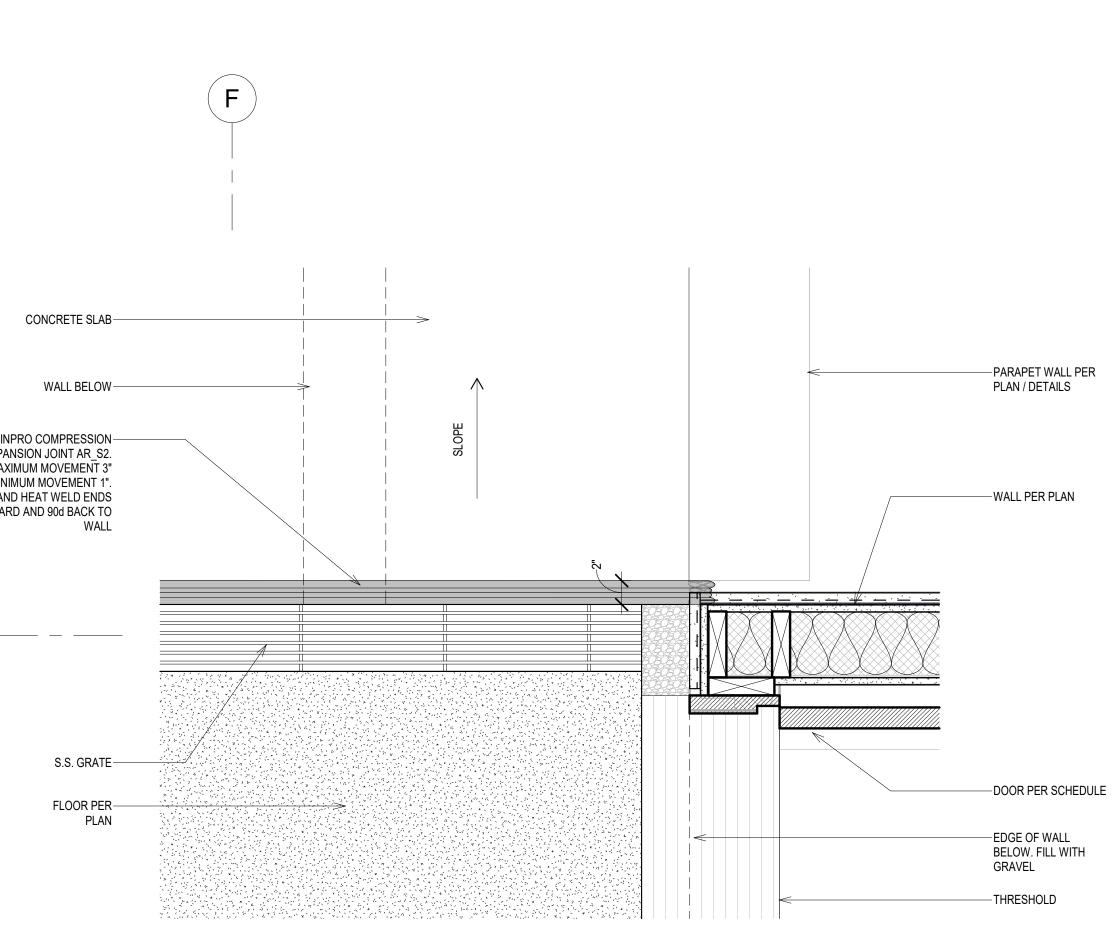


5 Detail Section Edge of Slab Pool Stair 1 1/2" = 1'-0"

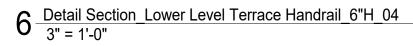
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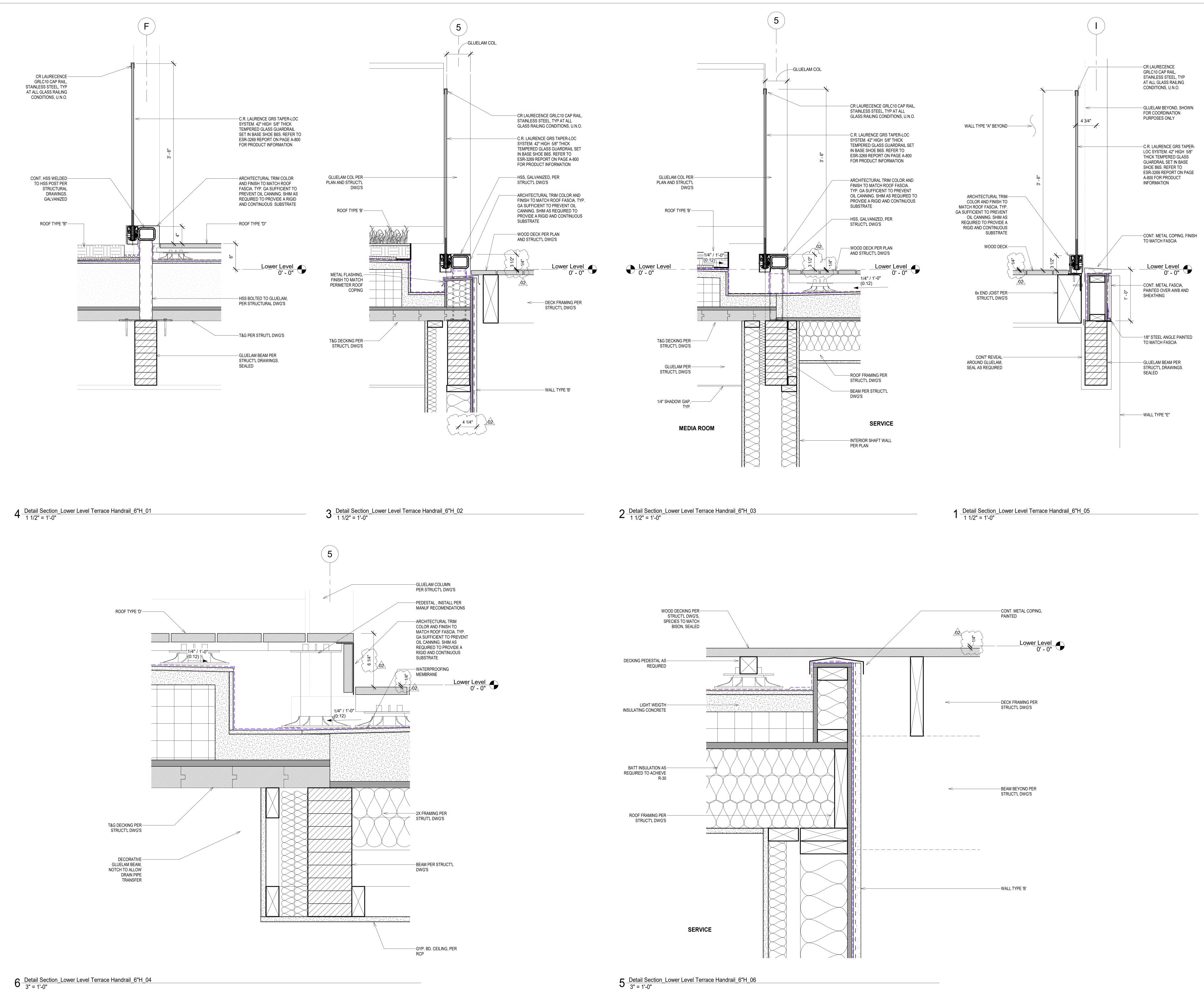


2 Detail Section\_Expansion Joint Detail\_Street Level\_01 3" = 1'-0"

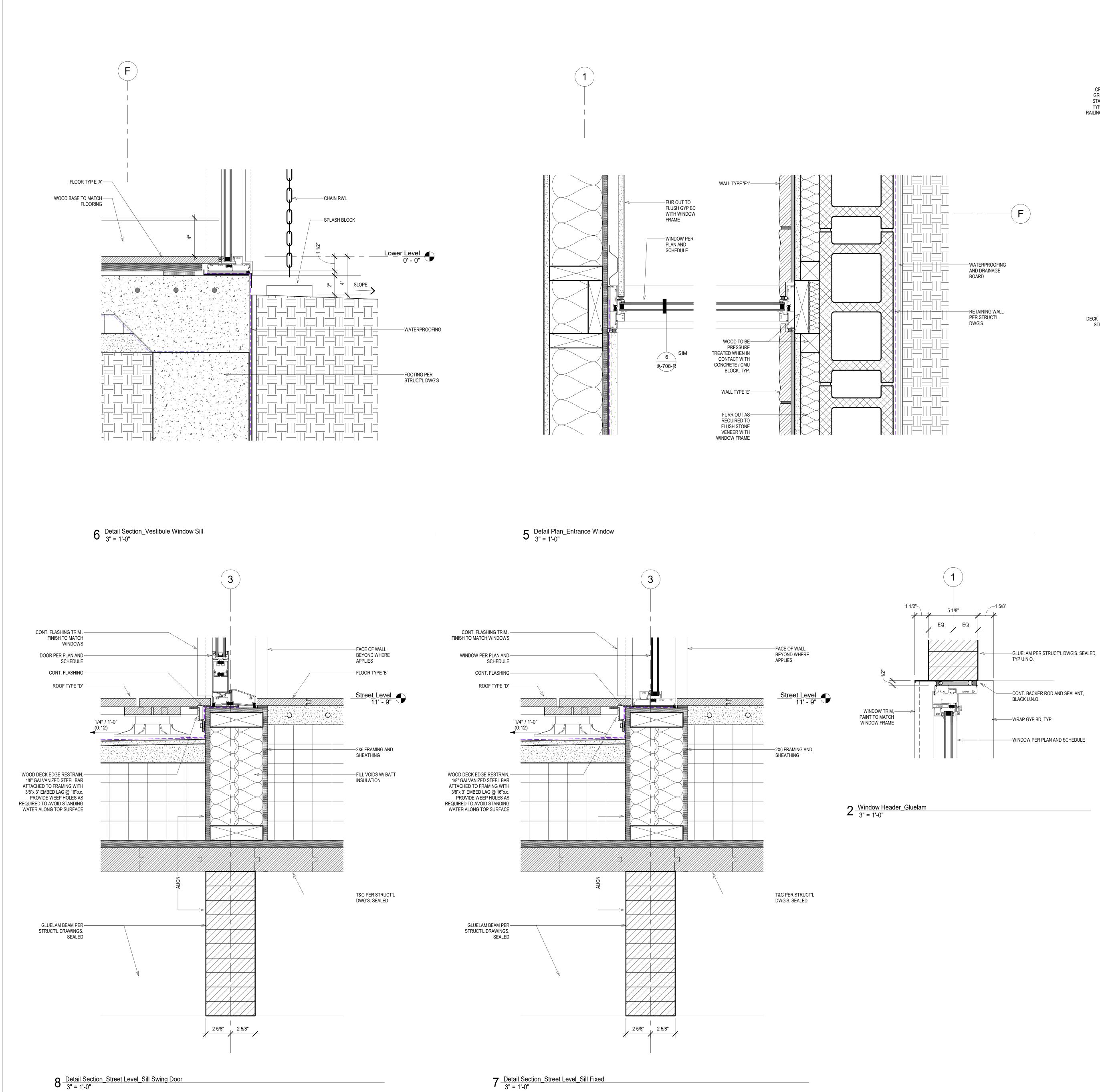


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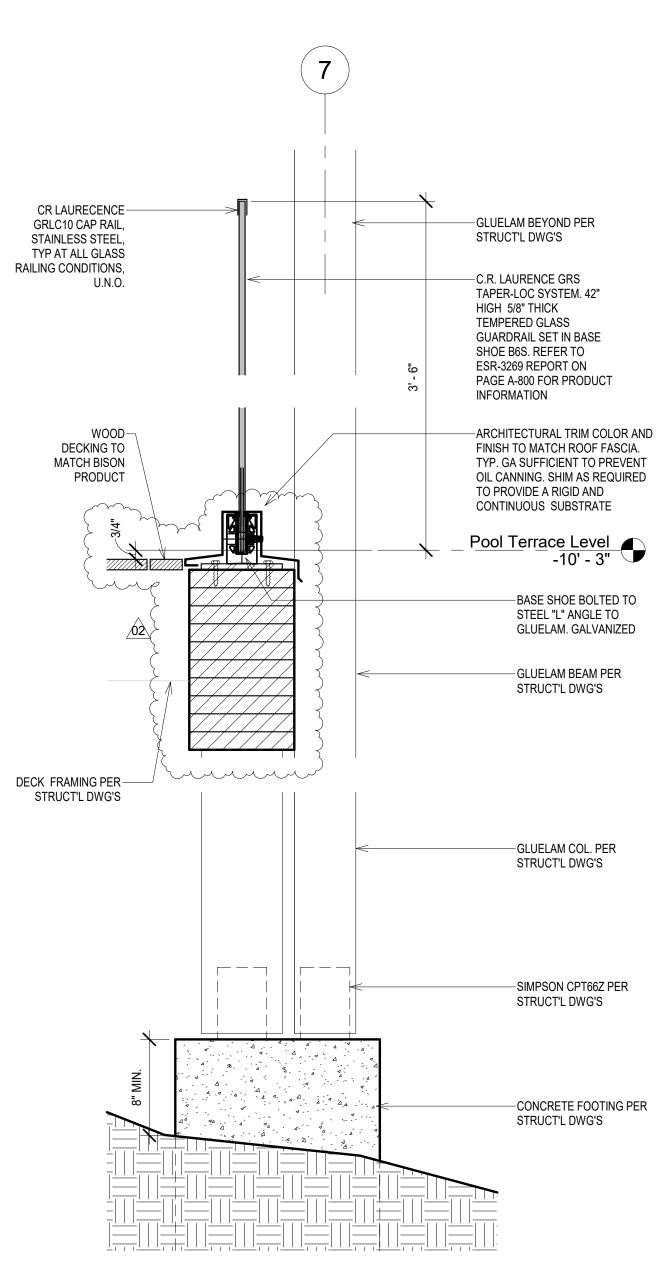




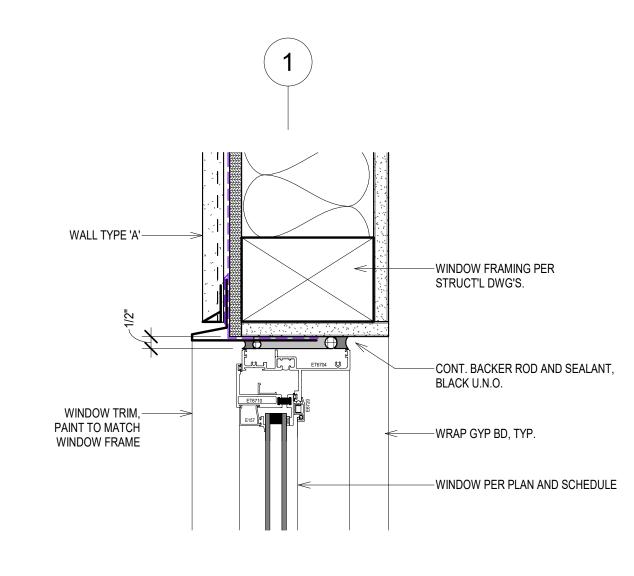
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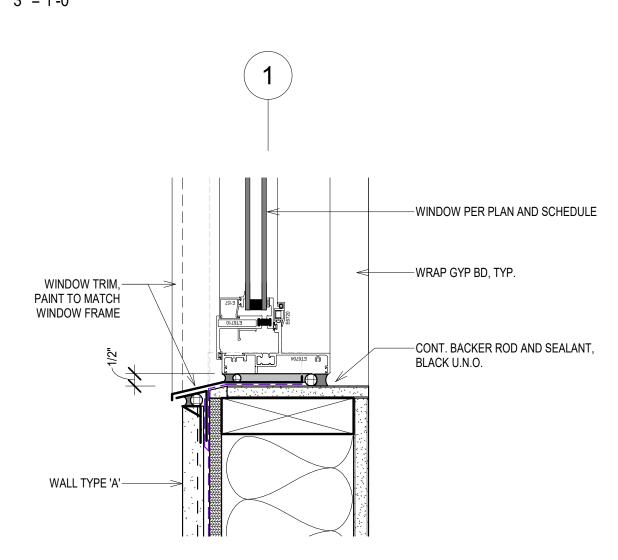




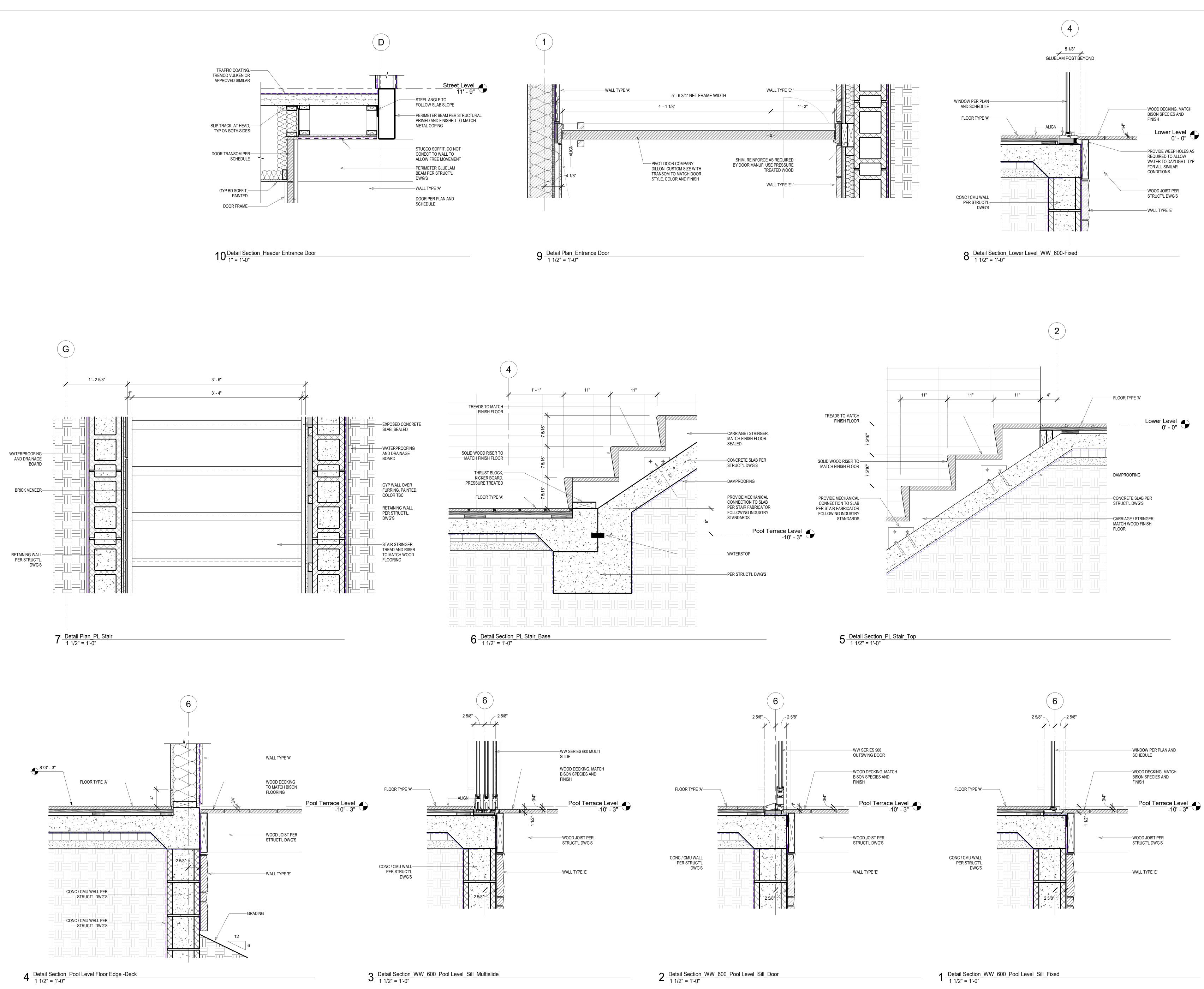
1 <u>Detail Section\_Pool Level Guardrail Wood Deck</u> 1 1/2" = 1'-0"

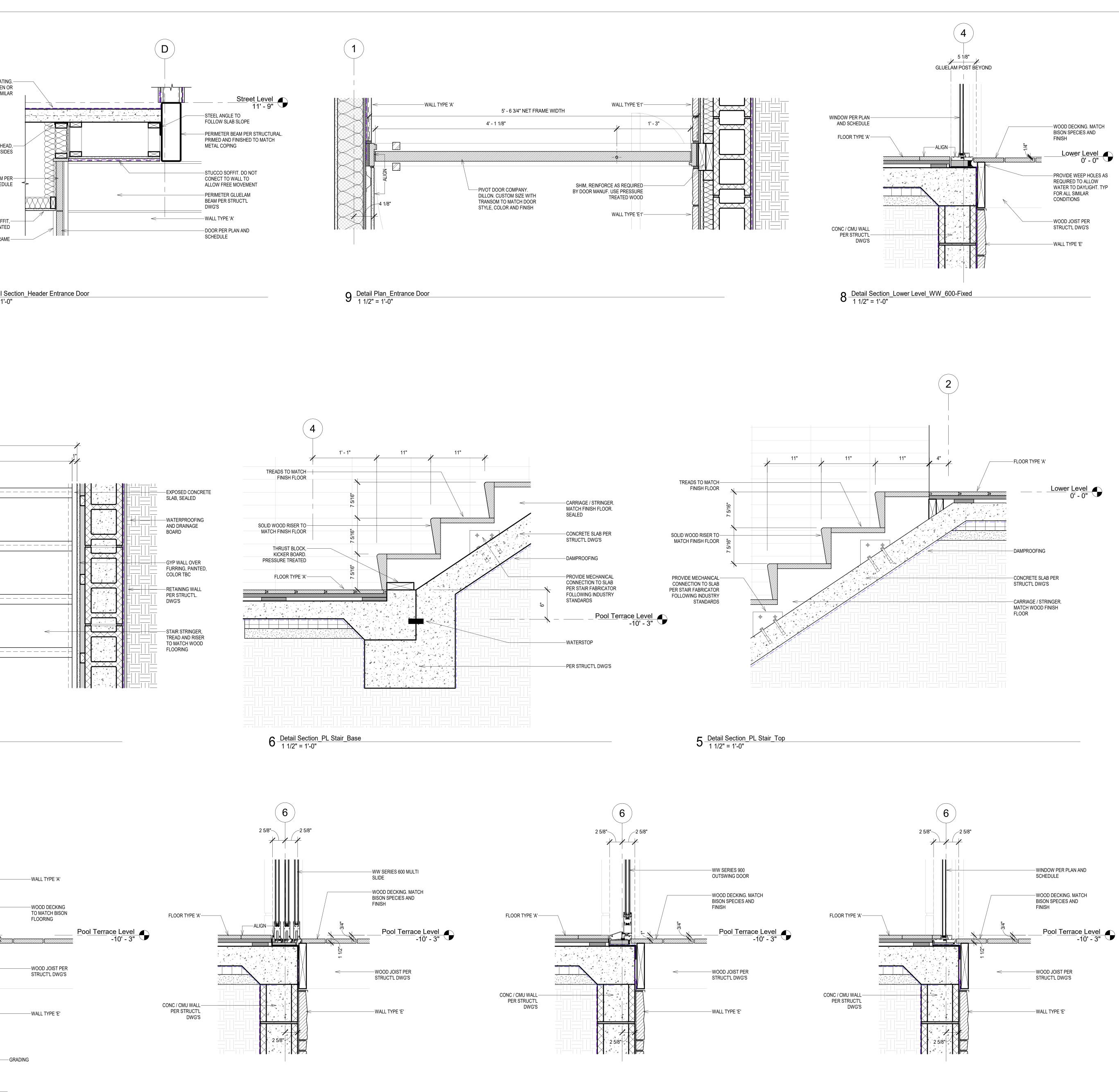


3 Window Header\_Typ 3" = 1'-0"

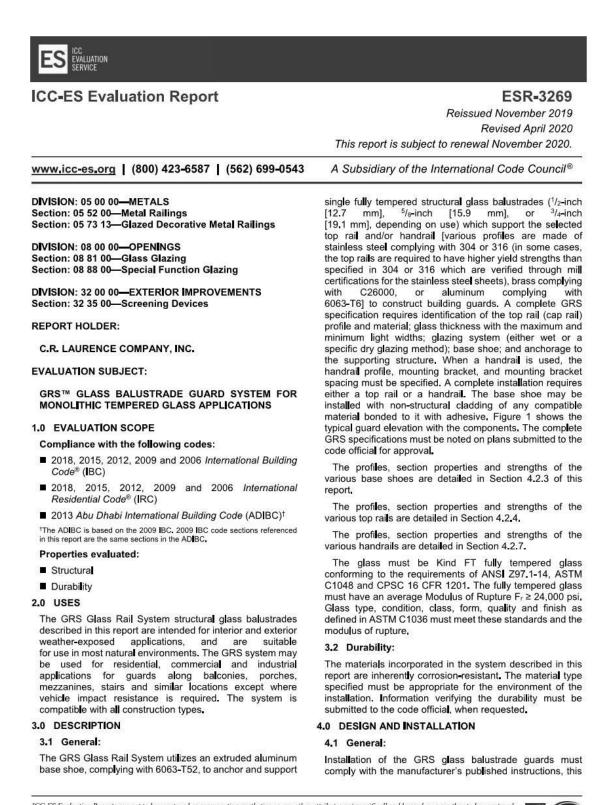


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R-3269 Most Widely Accepte	d and Trusted		Page 6 of 2
	TABLE 2A-SURFA	CE-MOUNTED SHOE	
Surfac	e mounted to steel with 1/2-in	ch cap screws @ 12 inches on cent	er¹:
	Total guard height (Hg)	from bottom of base shoe	
<sup>1</sup> /₂−inch cap screw to steel Base Shoe	36-inch Height Allowable wind load	42-inch Height	Live Load² 50 plf
Shoe	Allowable wind load	Allowable wind load	Max. Height
8B, B5G, B5S, B5T B5L B6S	75.3 psf 67.7 psf 78.9 psf	55.3 psf 49.8 psf 58.0 psf	89 in. 80 in. 93 in.
B7S	82.8 psf	60.9 psf	98 in.
Surfa	ce mounted to steel with 1/2-in	nch cap screws @ 6 inches on cent	er:
<sup>1</sup> / <sub>2</sub> -inch cap screw to steel Base Shoe	36-inch Height	42-inch Height	Live Load² 50 p <b>i</b> f
Base Shoe	A lowable wind load	Allowable wind load	Max, Height
8B, B5G, B5S, B5T B5L B6S	150 <b>.</b> 0 psf 134 <b>.</b> 5 psf 157.2 psf	110.2 psf 98.8 psf 115.5 psf	178 in. 160 in. 186 in.
B7S	165 <b>.</b> 1 psf	121.3 psf	196 in <b>.</b>

For SI: 1 inch = 25.4 mm; 1 psf = 0.0479 kN/m<sup>2</sup> <sup>1</sup>Allowable wind load may be limited by glass strength. See Table 1 in this report. Other loads listed in Section 4.2.1 must be considered.



TABLE 2B-FASCA-MOUNTED SHOE Fascia mounted to steel with 1/2-inch cap screws @ 12 inches on center Total Guard Height above top of base shoe Live Load 50 plf 1/2-inch cap screw to steel 36-inch Height 42-inch Height Base Shoe Allowable wind load Allowable wind load Max. Height 8B, B5G, B53 68.7 psf 87 ir Fascia mounted to steel with 1/2-inch cap screws @ 6 inches on cente 1/2-inch cap screw to steel 36-inch Height 42-inch Height 50 plf Base Shoe A owable wind load Allowable wind load Max. Height 8B, B5G, B5S 138.2 ps 95.6 psf 71.2 psf 103.0 psf 121 in. 178 in. 138.2 psf 138.2 ps For SI: 1 inch = 25.4 mm; 1 psf = 0.0479 kN/m<sup>2</sup>

<sup>1</sup>Allowable wind load may be limited by glass strength. See Table 1 in this report. <sup>2</sup>Other loads listed in Section 4.2.1 must be considered.

### ESR-3269 Most Widely Accepted and Trusted

Plate Thickness (inches)	Minimum Width (inches)	Base shoes
1/2	9	B5 series
<sup>5</sup> /8	5.75	B6 series
<sup>3</sup> / <sub>4</sub>	4	B7 series
1	2.25	B5 series
1.125	1.81	B6 series
1.25	1.437	B7 series

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The plate post must be manufactured from stainless steel complying with 304 or 316 stainless steel with a minimum yield strength (Fy) of 30 ksi and a minimum tensile strength (Fu) of 70 ksi. he maximum end span of the top rail next to the post must not be greater than that in Table 3. Based on the capacity of the plate post considering the worst case between a 50 plf uniform load and a 200 lb, concentrated load.

(2012 IBC Sections 1013, 1607.8.1, and 2407; 2009 and 2006 IBC Sections 1013, 1607.7.1, and 2407) or RC Section R312, whichever is applicable. Handrails/grab rails must comply with IBC Sections 1011.11 and 1014 012 and 1009.12, and 2006 IBC Sections 1012 and 1009.10) or IRC Sections R311.7.8 and R311.8.3 (2009 IRC Sections R311.7.7 and R311.8.3, and 2006 IRC Sections R3115.6 and R311.6.3), whichever is applicable. The manufacturer's published installation instructions. called "GRS Glass Railing Dry Glaze Taper-Loc System for Tempered Glass Applications (AVD3919-2/11)," must be available at the jobsite at all times during installation. In the event of a conflict between this report and the manufacturer's instructions, this report governs.

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4.2 Design: 4.2.1 Loading: The applicable project-specific loads must be identified. Minimum required loads are one of the following:

• 50 plf (0.73 kN/m) on the top rail in any direction • 200 lbs (0.89 kN) on the top rail in any direction, and 50 bs (0.22 kN) on one square foot at any location perpendicular to the glass balustrade • The wind load on the full area of glass, in psf

Wind load must be determined by a qualified individual based on the project-specific conditions, taking into account the balustrade location on the structure. For installations in compliance with the IRC Section R312, the 50 plf (0.73 kN/m) top rail load is not applicable.

4.2.2 Glass:

4.2.2.1 General: Sandblasted glass must have a 3/4-inch nominal thickness, with the allowable loads based on a 1/2-inch (12.7 mm) thickness, as noted in the tables of this report.

Minimum spacing between glass panels is 1/4 inch (6.4 mm) for  $\frac{1}{2}$ -inch- and  $\frac{5}{8}$ -inch-thick (12.7 and 15.9 mm) glass panels, and 1/2 inch (12.7 mm) for 3/4 inchthick (19.1 mm) glass panels. Holes and notches must not be located within the first third of the balustrade height from the base shoe. Holes and notches must conform to ASTM C1048.

4.2.2.2 Live Loads: The allowable live load glass panel stress is equal to the modulus of rupture divided by a safety factor of 4 [24,000/4 = 6,000 psi (41.3 MPa)] 4.2.2.3 Wind Loads: Table 1 provides the allowable wind loads. This is based on an allowable wind load stress of 9600 psi. 4.2.3 Base Shoes:

thickness, installation method and loading. Figure 2 shows the base shoe options. Tables 2a through 2g provide the allowable wind loads for the base shoes, glass thickness and anchorages. The base shoe must be installed in accordance with the manufacturer's published installation instructions and this report. The end anchor must be installed no less than 11/2 inches nor more than 12 inches from the end of the base shoes to the centerline of the anchor. A minimum of two anchors are required for any base shoe section.

4.2.3.1 Steel Substrate: The base shoe is attached to a structural steel member with a minimum thickness of for the guard height (Hg) from bottom of the base shoe. For <sup>1</sup>/<sub>4</sub> inch (6.4 mm) using <sup>1</sup>/<sub>2</sub>-13 by <sup>3</sup>/<sub>4</sub>-inch long, edge distances less than 3.75 inches (95 mm), required for

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#### TABLE 2C-ANCHORAGE TO CONCRETE $\frac{\text{For anchorage to concrete Surface Mounted:}}{^{3}\!\!/_{8}\text{-inch diameter x 4-inch Hillti HUS-EZ (KH-EZ) in accordance with <u>ESR-3027</u> or Hillti HSL-3 M8 x 3^{3}\!/_{4}\text{-inch anchor in accordance with <u>ESR-1545</u>. fc = 3,000 psi<sup>8</sup> (20.6 MPa)<sup>2</sup> embed depth = 2.5-inches (63.7 mm) effective depth$ Concrete anchors ≥ 3,75 inches edge distance<sup>1</sup> Anchor spacing to concrete 12-inches O. Total Guard Height (Hg) 36-inches Base Shoe Allowable wind load B5G, B5S, B5T, 8B 42.7 ps 45.6 pst 47.9 ps Anchor spacing to concrete 6-inches O.C Total Guard Height (Hg) 36-inches **Base Shoe**

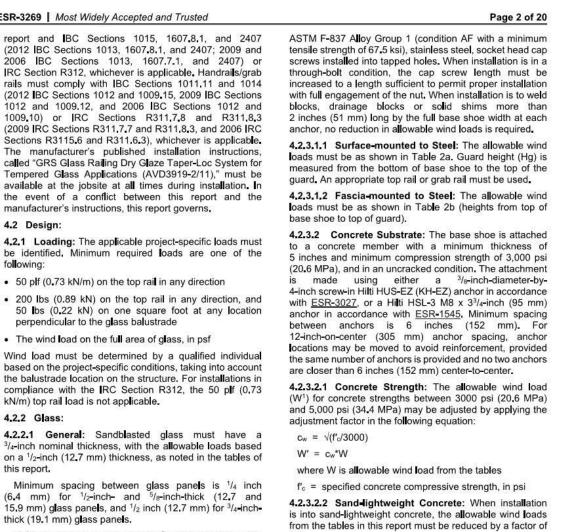
·	0	2	interior recognic
B5G, B5S, B5T, 8B	68.6 psf	50.4 psf	97 in.
B5L	61.5 psf	45.2 psf	63 in.
B6S	73.2 psf	53.8 psf	97 in.
B7S	75.7 psf	55.6 psf	97 in.
or <b>SI</b> : 1 inch = 25.4 mm; 1 psf = 0.0479	•		
	TABLE 2D-ANCHORAG	E TO CONCRETE	
Surface Mounted Base Shoes: Concrete anchors 2.35-inches edge	e distance <sup>1,2,3,4</sup>		
Anchor spacing to concrete 12-i	nches on-center		
			Live Load <sup>5</sup>
Total Guard Height (Hg) Base Shoe	36-inches Allowable wind load	42-inches Allowable wind load	50 plf
Base Shoe	Allowable wind load	Allowable wind load	Max. Height
B5G, B5S, B5T, 8B	35.5 psf	26.1 psf	42 in.
B5L (3.047-inches min edge dist)	35.4 psf	26.0 psf*	42 in.
B6S	37.2 psf	27.3 psf	44 in.
B7S	39.1 psf	28.7 psf	46 in.
<sup>a</sup> Does not meet 50 plf liv	e load on top rail required by Section	1607.8.1 of the IBC. See Section	4.2.1 of this report.
	Concrete anchors 1.75-in		
	Anchor spacing to concrete	6-inches on-center	
			Live Load <sup>5</sup>
Total Guard Height (Hg)	36-inches	42-inches	50 plf
Base Shoe	Allowable wind load	Allowable wind load	
			Max. Height
B5G, B5S, B5T, 8B	50.8 psf	37.3 psf	60 in.
B5L	45.6 psf	33.5 psf	54 in.
B6S	53,3 psf	53.3 psf	63 in.
0.200 0.20		41.1 psf	66 in.
B7S	56.0 psf	41.1051	

For SI: 1 inch = 25.4 mm; 1 psf = 0.0479 kN/m<sup>2</sup> Linear interpolation between guard heights, anchor spacing and edge distances is permitted nent for concrete strength other than  $f_c = 3.00$  psi, see section 4.2.3.2.1 of this report. nent for sand light-weight concrete: W' = 0.6\*W Allowable wind load maybe limited by glass strength. See Table 1 in this report. Other loads listed in Section 4.2.1 must be considered

	TABLE 5-BRACH
Handrail	
1 <sup>1</sup> / <sub>4</sub> -inch Sched 40	
1 <sup>1</sup> / <sub>4</sub> -inch Sched 40	
1 <sup>1</sup> / <sub>2</sub> -inch Sched 40	
1 <sup>1</sup> / <sub>2</sub> -inch Sched 40	
1 <sup>1</sup> / <sub>2</sub> -inch x <sup>1</sup> / <sub>8</sub> -inch Tube	
1 <sup>1</sup> / <sub>2</sub> -inch x <sup>1</sup> / <sub>8</sub> -inch Tube	
1 <sup>1</sup> / <sub>2</sub> -inch x 0.05-inch Tube	
2-inch x 0.05-inch Tube	

GLASS WIDTH MONOLITHIC GLASS NE OF MOUNTING and a start of the start of the FIGURE 1-TYPICAL GLASS RAILING ELEVATION

then the top rail is optional.



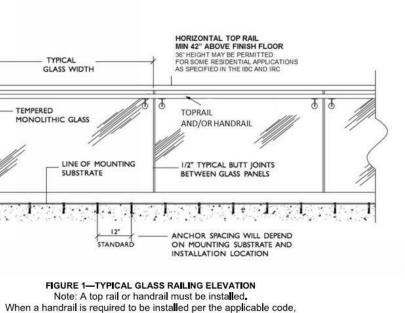
4.2.3.2.3 Adjusted Wind Load: For a 42-inch (1067 mm) guard height, the allowable wind load from the tables in this report must be greater than 26 psf (1.25 kN/m<sup>2</sup>) in order for the guard anchorage to be able to support the 50 plf (0.73 kN/m) live load. When typical anchor spacing is 12 inches (305 mm) on center, additional anchors may be added to the base shoe (for 10-foot (304 mm) base shoes or shorter lengths) as follows to provide a 26 psf (1.25 kN/m<sup>2</sup>) allowable wind load and a 50 plf (0.73 kN/m) top rail ive load The appropriate base shoe must be selected based on glass  $\circ$  26.0 psf  $\geq$  W' > 23.6 psf, add one anchor

> 23.6 psf ≥ W'> 21.7 psf, add two anchors psf ≥ W' > 20.0 psf, add three anchors For SI: 1 psf = 0.0479 kN/m<sup>2</sup>

Added anchors must be distributed to divide the base shoe into approximately equal segments. 4.2.3.2.4 Surface-mounted: When edge distance is equal to or greater than 3.75 inches (95 mm) (concrete edge parallel to the anchor and to the centerline of the anchor the allowable wind loads must be as provided in Table 2

Page 7 of 20 Live Load<sup>5</sup> 50 plf Allowable wind load Max. Height 61 in. 35.2 p Live Load⁵ 50 plf 42-inches able wind lo Max. Height

Page 12 of 20 KET SPACING<sup>1</sup> Material<sup>2</sup> L2 in Le in St or SS 96 6063-T6 Al St or SS 115 6063-T6 AI SS 102 6063-T6 Al 62 15 50 92



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the full anchor strength, the allowable wind load must be as perpendicular to the grain ≥ 625 psi (4.1 MPa). provided in Table 2d. Linear interpolation between Tables 2c and 2d is permitted for edge distances from 1.75 inches to 3.75 inches. 4.2.3.2.4.1 When installation is to drainage blocks or solid

shims, 2 inches long by the full base shoe width at each anchor, the allowable wind loads must be as provided in Table 2e. 4.2.3.2.5 Fascia-mounted: When fascia-mounted to a slab edge, beam, wall or similar item, the minimum concrete thickness must be 6 inches (152 mm). The top and bottom of the base shoe must not extend past the concrete edge, The allowable wind load must be as determined using Table 2f, where guard height is total height above the top of the

base shoe. Applicable adjustment factors from Sections 4.2.3.2.1 and 4.2.3.2.2 must be applied. Minimum wind oads must be verified in accordance with Section 4.2.3.2.3 4,2,3,2,5,1 Fascia-mounted over Drainage Blocks: When installation is with aluminum drainage blocks 2 inches (51 mm) wide by 4 inches (102 mm) deep at each anchor, the allowable wind load must be reduced by multiplying by 0.95 as shown in the following equation: W' = 0.95W 4.2.3.3 Wood Substrate: Wood must have a moisture

content under 19 percent at the time of fabrication and be a **4.2.3.3.2 Fascia-mounted**: The base shoes must be species and grade with specific gravity  $G \ge 0.49$ . For exterior locations all base shoes and fasteners must be stainless steel (304 or 316). Fasteners must be tightened so that the base shoe is in tight contact with the supporting wood. 4.2.3.3.1 Surface-mounted: All base shoes are similar and interchangeable. 4.2.3.3.1.1 Wet service (Moisture content of wood

may exceed 19% at any extended period of time): Direct surface mounting of the base shoes to wood in wet **4.2.4 Top Rails:** A top rail is required for a code- compliant service locations is prohibited. The base shoe must be attached to steel or aluminum brackets or continuous angles which are directly attached to the wood structure. Refer to Figure 3 for the aluminum bracket. Refer to Figure 4 for the steel bracket. The allowable wind loads using the steel or aluminum brackets are:

36-inch guard height, W = 46.7 psf (2.24 kN/m<sup>2</sup>) 42-inch guard height, W = 34.3 psf (1.64 kN/m<sup>2</sup>) The continuous angles must be L5x5x5/16 inch and comply

with ASTM A36 with a G90 galvanization or 6063 T5 aluminum. The base shoe must be connected to the steel angle with 2 inch (12.7 mm) diameter by 3/4 inch (19.1 mm) long ASTM F837 Alloy Group 1 (condition AF with a minimum tensile strength of 67.5 ksi) stainless steel socket head cap screws into tapped holes spaced 12 inches o.c. (305 mm).

The attachment of the continuous angle to the wood substrate must be with minimum No. 14x3-inch (76 mm) stainless steel wood screws spaced 3 inches on center along each leg. Allowable wind load using the continuous angles is:

42-inch guard height, W = 68.8 psf (3.289 kN/m<sup>2</sup>) 4.2.3.3.1.2 Dry service (Moisture content of wood

≤ 19% at all times): Dry service conditions include interior and exterior locations where the wood is adequately protected so that the moisture show content remains at or below 19% at all times. Base shoes are surface mounted directly to wood with a specific gravity G ≥ 0.49 and a compressive strength

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The base shoe must be anchored with 3/8-inch (9,5 mm) diameter by 5-inch (127 mm) long lag screws. The B5L base shoe must not be used for surface mounting to wood when guard height exceeds 24 inches (610 mm). Lag screw length must be increased as needed to obtain a minimum of 31/2" embedment into the solid wood when subfloor thickness exceeds 3/4 inch.

4.2.3.3.1.2.1 One- and Two-family Dwellings and IRC Applications [(200 pounds (0.89 kN) Top Rail Live Load Only)]: When installed in private residences, the anchors must be installed at 12 inches (305 mm) on center or less. For a 36-inch (914 mm) guard height, the minimum number of anchors is four; and for a 42-inch (1067 mm) guard height, the minimum number of anchors is five.

4.2.3.3.1.2.2 Other Locations [(50 plf (0.73 kN/m) Top Rail Live Load)]: When installed in applications where the 50 plf (0.73 kN/m) live load is applicable in accordance with IBC Section 1607.8.1 (2009 and 2006 IBC Section 1607.7.1), the anchors must be installed at 6 inches (152 mm) on center or less. The minimum number of anchors in any guard segment is five.

attached with 1/2-inch-by-4-inch (12.7 mm by 102 mm) ag screws installed directly to the structural wood member. The top of the base shoe must be flush with or below the top of the beam corner radius and the beam must extend below the bottom of the base shoe. The allowable wind load must be as determined in accordance with Table 2G. Linear interpolation for other heights or anchor spacing is a owable.

guard installation, except as noted in Figure 1. The term "cap rail" denotes the same thing as "top rail" and the two may be used interchangeably. The top rail is installed in accordance with the details provided in the manufacturer's installation details referenced in Section 4.1 of this report. 4.2.4.1 Support: The top rail must be installed so as to remain in place in the event of the failure of any one glass light. This requires the use of a minimum of three glass lights or a combination of other top rail supports and glass lights totaling three, minimum. Figure 5 illustrates the top rail support conditions. The top rail end condition (Figure 6) must be checked to verify that the rail will remain in place in the event of failure of the end glass light. End support must be designed when required for a code-compliant installation. he stabilizing end cap shown in Figure 14 is an acceptable

method of end support 4.2.4.2 Top Rail Profiles: The top rail profiles are shown in Figure 7. The maximum middle and end spans of the top rail profiles supported by glass only are given in Table 3.

4.2.4.3 Stainless Steel End Post: Where the end glass panel width exceeds the maximum end top rail span in Table 3, the top rail must be supported at the end by a post or the wall. A stainless steel post inserted in the base shoe and top rail may be used, as shown in Figure 6. The post minimum width for a maximum glass height of 42 inches (1067 mm) must be as shown in Table 4. Posts may either match glass thickness or fit tightly into the base

4.2.5 Taper-Loc<sup>®</sup> X Dry Glazed System:

4.2.5.1 Description: This is a dry glazing system where the glass is clamped inside the base shoe by the Taper-Loc®

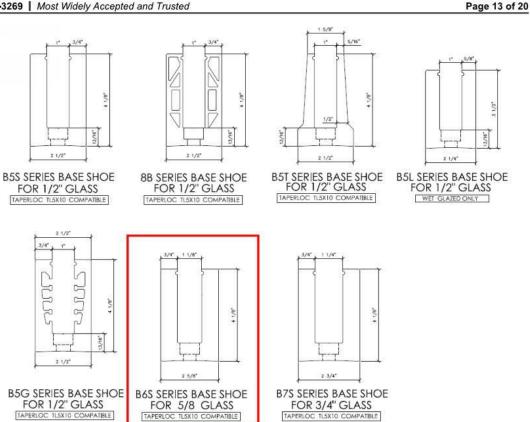
TABLE	2E-SURFACE MOUNTED WIT	H DRAIN BLOCKS ON CONCRETE	2,3,4
	Concrete anchors ≥ 3.7	5-inches edge distance	
	Anchor spacing to concre	ete 12-inches on-center	
Fotal Guard Height (Hg)	36-inches	42-inches	Live Load 50plf
Base Shoe	Allowable wind load	Allowable wind load	Max. Height
B5G, B5S, B5T, 8B			
B5L	41.2 psf	30.2 psf	48 in.
Developed A result of	37.0 psf	27.2 psf	44 in.
36S	44.0 psf	32.3 psf	52 in.
	50.5 psf	37.1 psf	54 in.
37S		10.12.20.10.00	
		5-inches edge distance	
	Anchor spacing to concr	ete 6-inches on-center	
	12277 - C	12213	Live Load <sup>5</sup>
Total Guard Height (Hg)	36-inches	42-inches	50 p <b>i</b> f
Base Shoe	Allowable wind load	Allowable wind load	Max, Height
35G, B5S, B5T, 8B			1000000 C 10000 C 1000
B5L	66 0 pot	10.2 mof	79 in <b>.</b>
SOL	66.9 psf	49.2 psf	75 m.
266	60.2 psf	44.2 psf	
36S	71.2 psf	52.3 psf	84 in.
37S	74.6 psf	54.8 psf	88 in.
Telestra .	Concrete anchore > 2.3	5-inches edge distance	
	Anchor spacing to concre		
			Live Load <sup>5</sup>
Total Guard Height (Hg)	36-inches	42-inches	50 plf
Base Shoe	Allowable wind load	Allowable wind load	Max. Height
35G, B5S, B5T, 8B			
B5L (3.047-inches min edge dist)	34.0 psf	25.0 psf	40 in <b>.</b>
Sec (ore in merice init edge diet)	30.6 psf	26.9 psf	36 in.
B6S	36.2 psf	26.6 psf	42 in.
	41.6 psf	30.5 psf	44 in,
37S	21.	25.5	
		5-inches edge distance	
	Anchor spacing to cond	crete 6-inches on-center	
	201-1		Live Load <sup>5</sup>
Total Guard Height (Hg)	36-inches	42-inches	50 plf
Base Shoe	Allowable wind load	Allowable wind load	Max. Height
35G, B5S, B5T, 8B	5		<b>3</b>
B5G, B55, B51, 6B B5L	55.0 psf	40.4 psf	65 in.
JUL	49,5 psf	36.4 psf	58 in.
B6S	58.4 psf	42.9 psf	69 in.
305	61.2 psf	42.9 psi 45.0 psf	72 in.
B7S	01.2 psi	40.0 psi	r∠ ifi.

<sup>1</sup>Linear interpolation between guard heights, anchor spacing and edge distances is permitted. Adjustment for concrete strength other than  $f_c = 3,000$  psi. See Section 4.2.3.2.1 Adjustment for sand light-weight concrete: W' = 0.6\*W

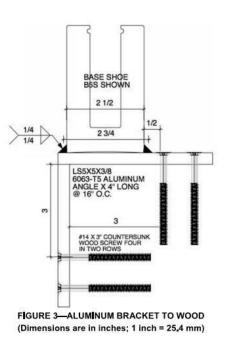
<sup>4</sup>Allowable wind load may be limited by glass strength. See Table 1 in this report.

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	Concrete anchors ≥ 3.75-inches edge distance Anchor spacing to concrete 12-inches on-center		
Total Guard Height (Hg) Base Shoe	36-inches Allowable wind load	42-inches Allowable wind load	Live Load 50plf Max. Height
B5G, B5S, B5T, 8B			
B5L	49.7 psf	37.0 psf	<u>65 in.</u>
	42.0 psf	31.2 psf	<u>54 in.</u>
B6S	49.7 psf	37.0 psf	65 in.
	49.7 psf	37.0 psf	65 in.
B7S			10.000.0000



FOR 5/8 GLASS For SI: 1 inch = 25.4 mm. FIGURE 2-BASE SHOES



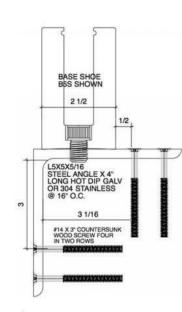
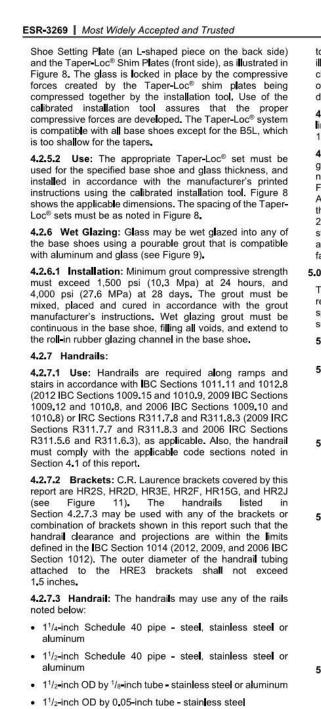


FIGURE 4-STEEL BRACKET TO WOOD (Dimensions are in inches; 1 inch = 25.4 mm)



4.2.2.2 of this report.

or a combination of other handrail supports and glass light

ESR-3269 Most Widely Accepted Total Guard Height (Hg) **Base Shoe** B5G, B5S, B5T, 8B For SI: 1 inch = 25.4 mm; 1 psf = 0.0479 kN/m<sup>2</sup>. Anchor s Total Guard Height (Hg) Base Shoe Total Guard Height (Hg) Base Shoe B5G, B5S, B5T, 8B Total Guard Height (Hg) Base Shoe B5G, B5S, B5T, 8B B5L (3.047-inches min edge dist **Total Guard Height (Hg** Base Shoe B5G, B5S, B5T, 8B For SI: 1 inch = 25.4 mm; 1 psf = 0.0479 kN/m<sup>2</sup>. The allowable wind loads may be adjusted for other light heights by equation 3  $W' = W_{42} + 42^2$  Eq. 3

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r		-

 2-inch OD by 0.05-inch tube - stainless steel 4.2.7.4 Installation: Handrails may be installed to glass balustrade guards using the through glass mounting brackets shown in this report (see Figure 11). The brackets must be installed in accordance with the manufacturer's instructions. The glass holes must comply with Section 4.2.7.5 Support: The handrail must be installed so as to remain in place in the event of the failure of any one class light. This requires the use of a minimum of three glass lights

illus che of f	ing three, minimum, similar to the top rail support trated in Figure 5. The handrail end condition must be cked to verify that the rail will remain in place in the event ailure of the end glass light. End support must be igned when required for a code-compliant-installation.
<b>4.2.</b> limit 10.	<b>7.6 Spacing:</b> The bracket spacing must be within the s shown in Table 5, with dimensions as defined in Figure
glas note Figu Alte the 200 stab	7.7 Attachment: The handrail, when supported by the s balustrade, must be attached to one of the brackets ad in this report, in accordance with the detail shown in re 12, and to the glass as shown in Figure 13. rnative attachment must be designed to safely support loads as given in the IBC Section 1607.8.1 (2009 and 6 IBC Section 1607.7.1), whichever is applicable. The billizing end cap shown in Figure 14 may be used to ch the handrail or top rail to a wall or perpendicular post
.0 0	CONDITIONS OF USE
repo spe	C.R. Laurence Glass Rail System described in this ort complies with, or is a suitable alternative to what is cified in, those codes listed in Section 1.0 of this report, iect to the following conditions:
5,1	The product is limited to installation where it is not subject to vehicle impacts.
5.2	Installation must comply with this report, the manufacturer's published installation instructions, and Sections of the IBC or Sections of the IRC, identified in Section 4.1 of this report, whichever is applicable. When the manufacturer's instructions conflict with this report, this report governs.
5.3	Under the 2018 and 2015 IBC the single fully tempered glass is limited to uses in handrails and guardrails where there is no walking surface beneath them or the walking surface is permanently protected from the risk of falling glass, as noted in the exception in Section 2407.1 of the IBC.
5.4	The supporting structure must be designed and constructed to support the loads imposed by the GRS guards in accordance with the applicable code. The anchorage to the frame must be as specified in this report or designed to provide the required strength for the specified balustrade height and imposed loads. Drawings and design details for the GRS system, using the information noted in this report, must be included on construction plans submitted to the code official for approval. The drawings and details must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed

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be constructed. 5.5 When use is in exterior locations, the wind loads on the GRS guards must not exceed the values noted in this report. For glass heights other than those noted in this report, the allowable wind loads must not exceed the value calculated by the following equation:  $W = (M_{gmax}/2.5)$ (0.55\*H<sup>2</sup>) where:

H = glass height above supports, in feet M<sub>gmax</sub>/2.5 = 352 ft-lb for <sup>1</sup>/<sub>2</sub>-inch fully tempered glass 566.4 ft-b for 5/8-inch fully tempered glass 827.2 ft-b for 3/4-inch fully tempered glass

chor spacing to concre	te 6-inches on-center	
36-inches	42-inches	Live Load⁵ 50 plf
owable wind load	Allowable wind load	Max. Height
77.1 psf	57.5 psf	101 in.
51.0 psf	37.9 psf	66 in.
77.1 psf	57.5 psf	101 in.
77.1 psf	57.5 psf	101 in.

TABLE 2G-FASCIA MOUNTED OVER DRAIN BLOCKS (WOOD SUBSTRATE) To Wood With 1/2-inch Lag Screws With 2.37-inch Minimum Embedment to Wood G > 0.49

36-inches Iowable wind load	42-inches Allowable wind load	Live Load 50plf
	Allowable wind load	Max. Height
40.7 6	20.2 - 4	60 in
48.7 psf	36.3 psf	60 in.
41.4 psf	30.8 psf	50 in.
48.7 psf	36.3 psf	60 in.
48.7 psf	36.3 psf	60 in <b>.</b>
Anchor spacing 6	-inches on-center	
	22224-222-201-2	Live Load <sup>5</sup>
36-inches	42-inches	50 p <b>i</b> f
owable wind load	Allowable wind load	Max, Height
92.6 psf	69.0 psf	118 in.
77.8 psf	57,9 psf	97 in,
92.6 psf	69.0 psf	118 in.
92.6 psf	69.0 psf	118 in.
or spacing 12-inches on-c	enter for wet locations M <sub>e</sub> >19%	Live Load <sup>5</sup>
36-inches Iowable wind Ioad	42-inches Allowable wind load	50 plf
		Max. Height
2456	25.7(	41 in.
34.5 psf	25.7 psf	34 in.
29.4 psf 34.5 psf	21.9 psf 25.7 psf	41 in.
	20.7 DSI	
34.5 psf	25.7 psf	41 in.
34.5 psf		
34,5 psf <u>Anchor spacing 6</u>	25,7 psf	41 in. Live Load <sup>s</sup>
34,5 psf <u>Anchor spacing 6</u> 36-inches	25.7 psf	41 in <b>.</b>
34,5 psf <u>Anchor spacing 6</u> 36-inches	25.7 psf -inches on-center 42-inches	41 in. Live Load <sup>s</sup>
34,5 psf <u>Anchor spacing 6</u> 36-inches Ilowable wind load	25.7 psf -inches on-center 42-inches Allowable wind load	41 in. Live Load <sup>5</sup> 50 plf Max. Height
34,5 psf <u>Anchor spacing 6</u> 36-inches Ilowable wind load 66.9 psf	25,7 psf -inches on-center 42-inches Allowable wind load 49.9 psf	41 in, Live Load <sup>5</sup> 50 plf Max, Height 84 in,
34,5 psf <u>Anchor spacing 6</u> 36-inches Ilowable wind load 66.9 psf 56.8 psf	25,7 psf -inches on-center 42-inches Allowable wind load 49.9 psf 42.2 psf	41 in. Live Load <sup>5</sup> 50 plf Max. Height 84 in. 70 in.
34,5 psf <u>Anchor spacing 6</u> 36-inches Ilowable wind load 66.9 psf	25,7 psf -inches on-center 42-inches Allowable wind load 49.9 psf	41 in. Live Load <sup>5</sup> 50 plf Max. Height 84 in.

Where  $H_G$  = glass height measured from top of base shoe to top of top rail in inches.

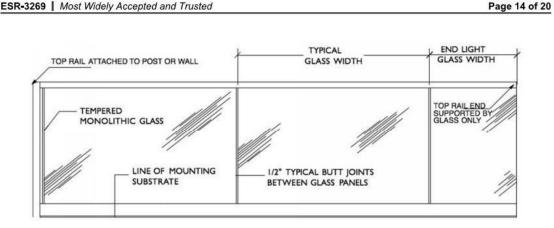
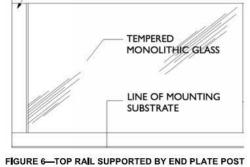


FIGURE 5-TOP RAIL SUPPORT OPTIONS





ESR-3269 Most Widely Accepted and Trusted For SI: 1 ft - 1 lbf = 1.356 N-m

- 5.6 When installed where exposed to moisture, the base shoe anchors must be of a material intended for the use and identified by the manufacturer as acceptable 6.0 EVIDENCE SUBMITTED for exterior applications. When installed in a corrosive environment, such as one where there is exposure to salt water or pool water, the anchors must be 316
- stainless steel. 5.7 All metals in contact with aluminum must be either an alloy approved for direct aluminum contact, or isolated **7.0 IDENTIFICATION** from the aluminum by an approved coating.
- 5.8 The GRS systems described in this report must not be used in Wind-Borne Debris Regions. 5.9 The GRS<sup>™</sup> Glass Balustrade Guard System and the proper top rail or handrail must be installed in accordance with the manufacturer's instructions, this report, Sections 1014, 1015, and 2407 of the IBC (Sections 1012, 1013, and 2407 of the 2012, 2009 and 2006 BC) or Sections R311.7.8 and R312 of the IRC, whichever is applicable. 5.10 All class must be fully tempered, fabricated, and
- inspected in accordance with ASTM C1048, and the glass fabricator must provide certification of compliance with ASTM C1058 for fully tempered glass. Glass must be procured directly from a qualified glass fabricator and is not produced or supplied by C.R. Laurence Co., Inc.

Page 5 of 20 5.11 The CRL GRS<sup>™</sup> and Taper-Loc<sup>®</sup> components, except for the glass, are supplied by C.R. Laurence Co., Inc., in Los Angeles, California.

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Glass Railing and Balustrade Systems (AC439) dated April 2019. 6.2 Manufacturer's published installation instructions.
- 7.1 The CRL GRS<sup>™</sup> and Taper-Loc<sup>®</sup> guard system components described in this report are identified by a stamp on the packaging bearing the manufacturer's name (C.R. Laurence Co., Inc., sometime abbreviated as CRL); product description and/or part number; and the ICC-ES evaluation report number
- (ESR-3269). 7.2 The report holder's contact information is the following: C.R. LAURENCE COMPANY. INC. ARCHITECTURAL RAILING DIVISION 2503 EAST VERNON AVENUE LOS ANGELES, CALIFORNIA 90058 (800) 421-6144
- www.crlaurence.com www.crl-arch.com

TABLE 1—GLASS PANELS STRENGTH I IVE LOAD GLASS GLASS PANEL ALLOWABLE 50 PLF MAXIMUM HEIGHT ABOVE TOP MINMUM GUARD HEIGHT GLASS PANEL THICKNESS WIND MAXIMUM HEIGHT ABOVE TOP PRESSURE OF BASE SHOE (in.) BASED ON: ABOVE TOP OF BASE THICKNESS HEIGHT (Hg)<sup>1</sup>, (in.) (in.) (in.) WDTH<sup>2</sup> (in. (psf) SHOE (in.) STRESS 1" DEFLECTION 0.469 52.75 40.08 0.595 84.0 50.84 38 84.1 64,44 3/4 0.719 124 1'-3" 38 122,8

For SI: 1 inch = 25.4 mm; 1 foot = 305 mm; 1 psf = 0.0479 kN/m<sup>2</sup> <sup>1</sup>The allowable wind loads may be adjusted for other panel heights by:

 $W' = \underline{W_{42} \star 42^2}$ where H<sub>g</sub> = total guard height measured from bottom of base shoe to top of top rail in inches.

W<sub>42</sub> = Allowable load at 42-inch guard height. <sup>2</sup>Minimum glass panel width is defined as the minimum width of glass required to support the 200 pound concentrated live load acting horizontally. The minimum glass light width is 6 inches when top rail is continuous across a total glass width of 1.5 times the minimum width or attached to additional supports at rail ends. Where the top rail is continuous, multiple adjacent glass lights may be added together to provide the total ength <sup>3</sup>Other loads listed in Section 4.2.1 must be considered.

ESR-3269 Most Widely Accepted and Trusted Page 10 of 20

TABLE 3-MAXIMUM TOP RAIL SPAN LENGTHS<sup>1, 4, 5</sup> (Based on the top rail spanning over a minimum of three glass panels) Materia Maximum Middle Span<sup>2,3</sup> (inches) Maximum End Span<sup>3</sup> (inches) Top Rai Profile Stainless GRS/GRSC15 Stainless Stainless Aluminum Stainless GRS/GRSC20 Stainless Stainless Brass Aluminum Stainless Stainless Brass Aluminum Stainless Brass Aluminum Stainless Brass Stainless Stainless Brass Stainless

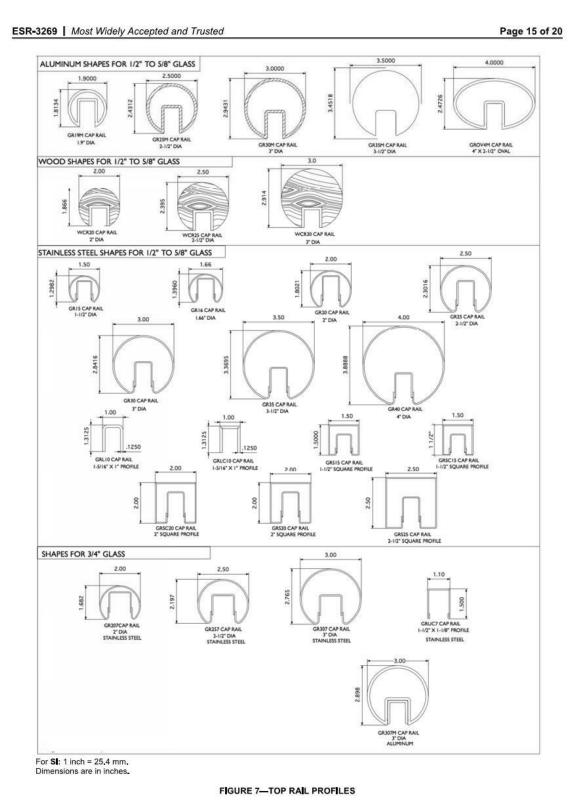
Aluminum Aluminum Wood Stainless or SI: 1 inch = 25.4 mm Based on the capacity of the top rail considering the worst case between a 50 plf uniform load and a 200 lb. concentrated load. The maximum middle glass panel widths must not be greater than the maximum middle top rail span. The maximum end glass panel must not be greater than the maximum end top rail span

When the top rail is attached to a wall or post, the maximum top rail end span may be increased to the same for the maximum middle

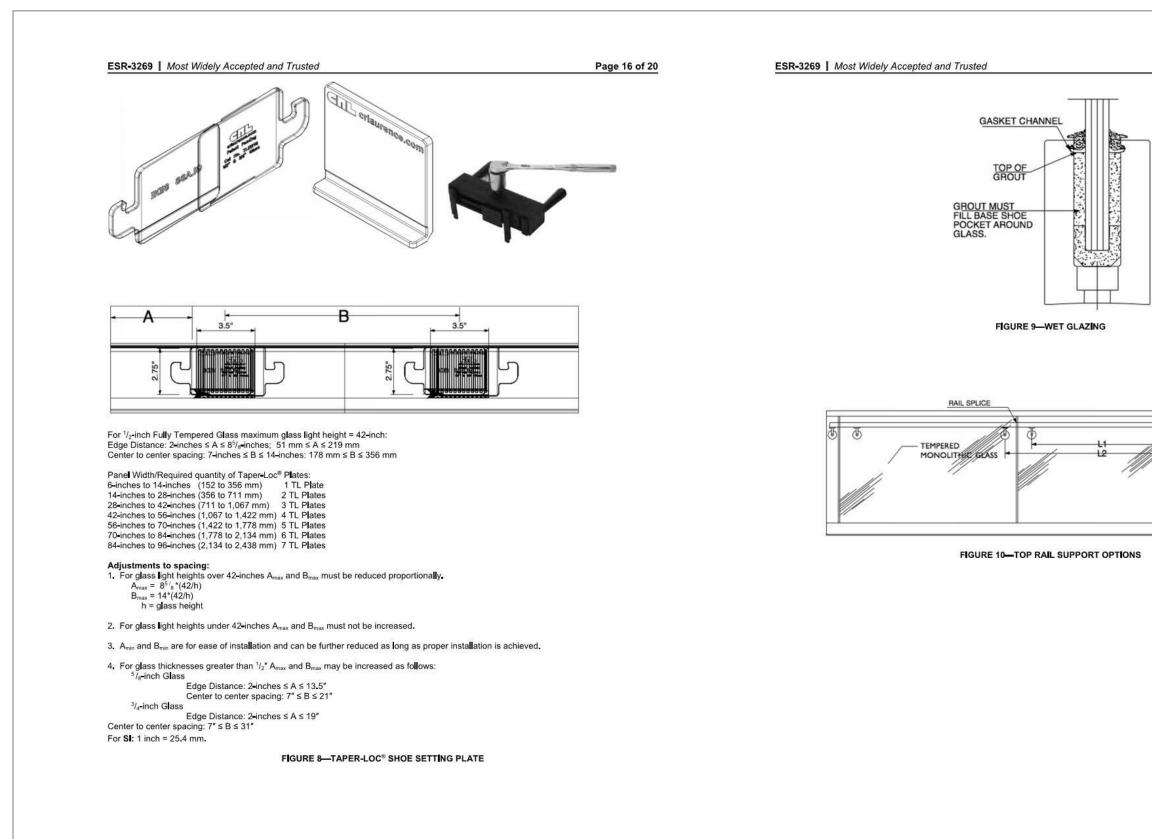
Brass

span tabulated.

The glass panel widths must not be less than the minimum glass panel width noted in Table 1.



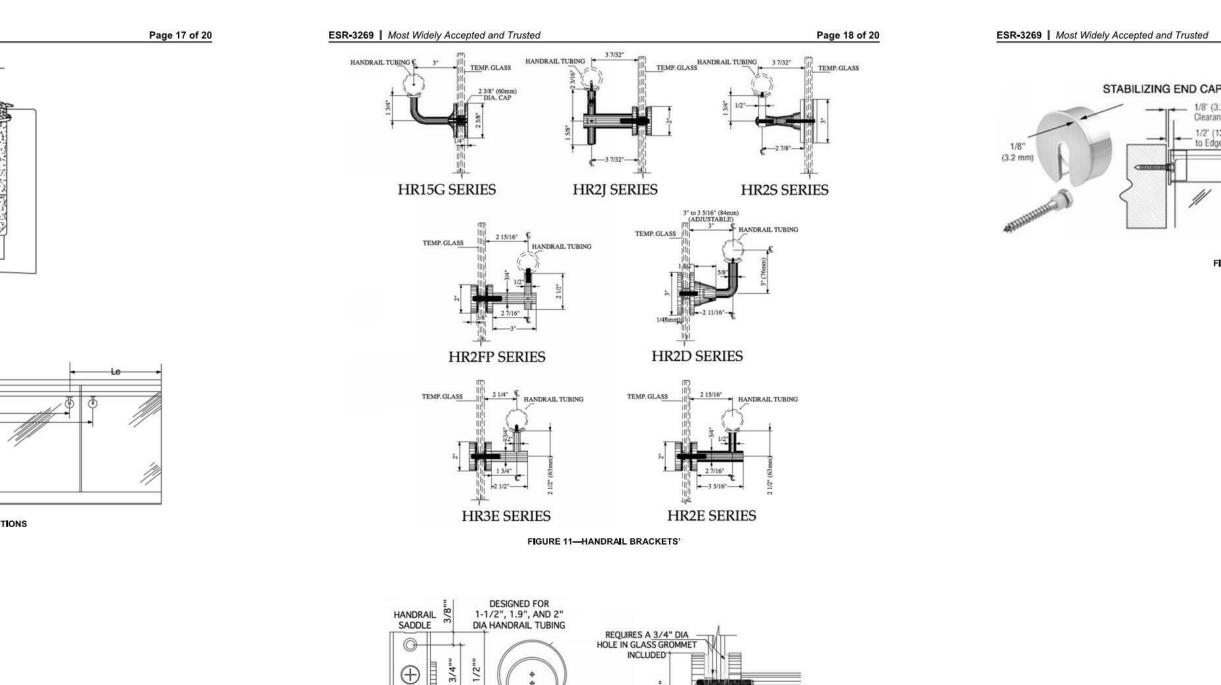
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 ESR-3269 CBC and CRC Supplement
 Most Widely Accepted and Trusted
 Page 20 of 20

 The products have not been evaluated under CRC Section R337 for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.
 The products recognized in this supplement have not been evaluated for compliance with the International Wildland–Urban Interface Code<sup>®</sup>.

 This supplement expires concurrently with the evaluation report, reissued November 2019 and revised April 2020.



2" (51mm) DIA.

STANDOFF CAP

3/8"-16 ALLEN SCREW (INCLUDED)

FIGURE 13—HANDRAIL ATTACHMENT TO GLASS

1 3/16""

MOUNTING HOLES

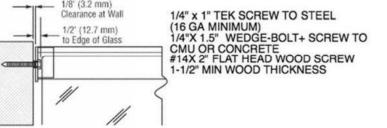
FOR (2) #10 SCREWS

(INCLUDED)

FIGURE 12—HANDRAIL ATTACHMENT

STABILIZING END CAP MATCHED TO TOP RAIL OR HAND RAIL

FIGURE 14—STABILIZING E ND CAP



FS

ES EVALUATION SERVICE	
ICC-ES Evaluation Report	ESR-3269 CBC and CRC Supplement Issued November 2019 Revised April 2020
2	This report is subject to renewal November 2020.
www.icc-es.org   (800) 423-6587   (562) 699-0543	A Subsidiary of the International Code Council®
DIVISION: 05 00 00—METALS Section: 05 52 00—Metal Railings Section: 05 73 13—Glazed Decorative Metal Railings	
DIVISION: 08 00 00—OPENINGS Section: 08 81 00—Glass Glazing Section: 08 88 00—Special Function Glazing	
DIVISION: 32 00 00—EXTERIOR IMPROVEMENTS Section: 32 35 00—Screening Devices	
REPORT HOLDER:	
C.R. LAURENCE COMPANY, INC.	
EVALUATION SUBJECT:	
GRS <sup>™</sup> GLASS BALUSTRADE GUARD SYSTEM FOR MON	IOLITHIC TEMPERED GLASS APPLICATIONS
1.0 REPORT PURPOSE AND SCOPE Purpose:	
	te that the GRS <sup>™</sup> Glass Balustrade Guard System for Monolith

- The purpose of this evaluation report supplement is to indicate that the GRS<sup>™</sup> Glass Balustrade Guard System for Monolithic Tempered Glass Applications, recognized in ICC-ES evaluation report ESR-3269, has also been evaluated for compliance with the codes noted below. Applicable code editions:
- 2016 California Building Code<sup>®</sup> (CBC)
   For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.
   2016 California Residential Code<sup>®</sup> (CRC)

#### 2.0 CONCLUSIONS 2.1 CBC:

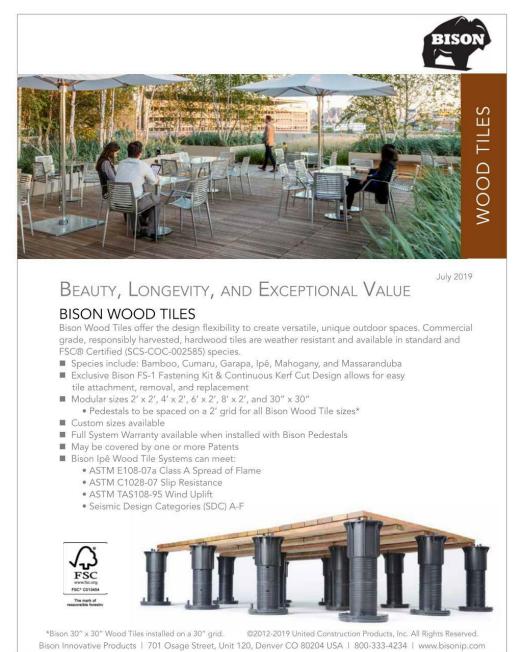
The GRS<sup>™</sup> Glass Balustrade Guard System for Monolithic Tempered Glass Applications, described in Sections 2.0 through 7.0 of the evaluation report ESR-3269, complies with CBC Chapters 10 and 24, provided the design and installation are in accordance with the 2015 *International Building Code*<sup>®</sup> (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 10, 16 and 24, as applicable. The products have not been evaluated under Chapter 7A for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.

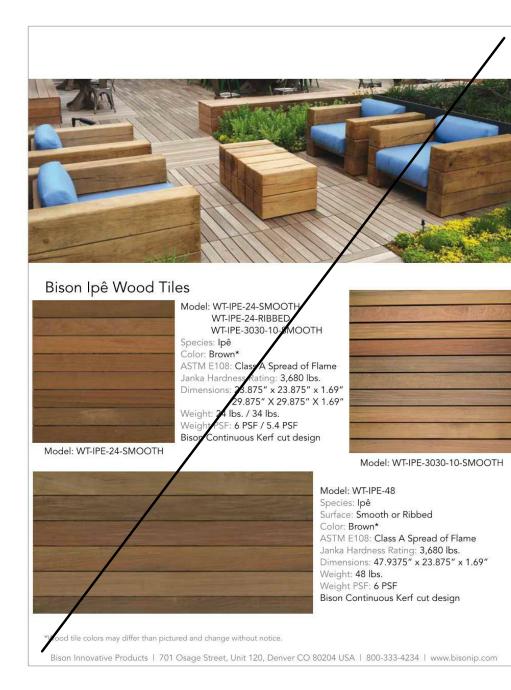
- 2.1.1 OSHPD: The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.
- 2.1.2 DSA:
- The applicable DSA Sections of the CBC are beyond the scope of this supplement. 2.2 CRC:
- The GRS<sup>™</sup> Glass Balustrade Guard System for Monolithic Tempered Glass Applications, described in Sections 2.0 through 7.0 of the evaluation report ESR-3269, complies with CRC Chapter 3, provided the design and installation are in accordance with the 2015 *International Residential Code*<sup>®</sup> (IRC) provisions noted in the evaluation report.

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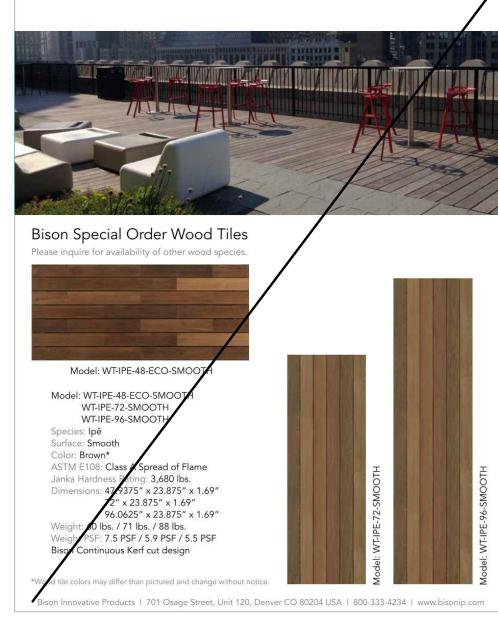
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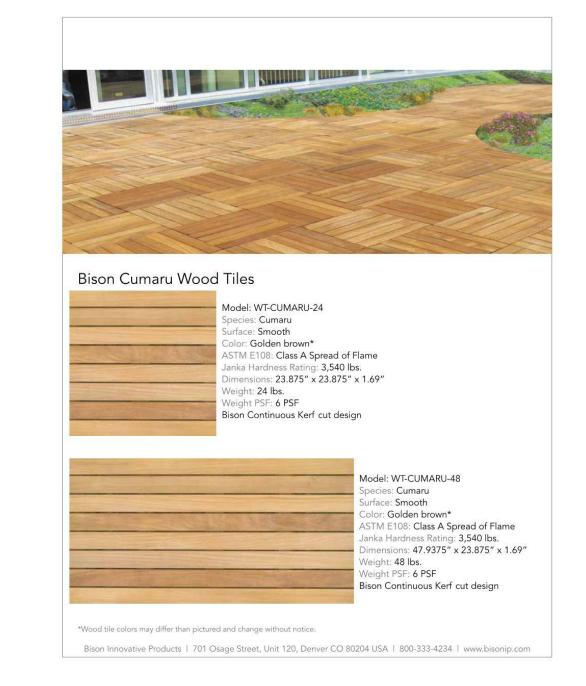


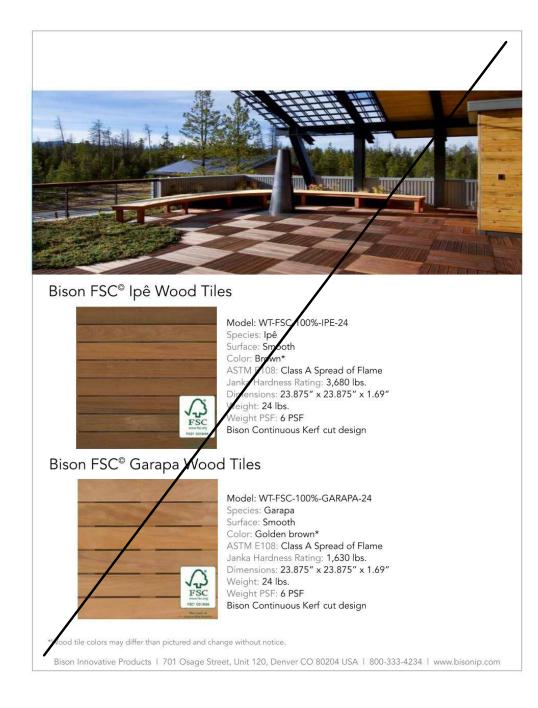


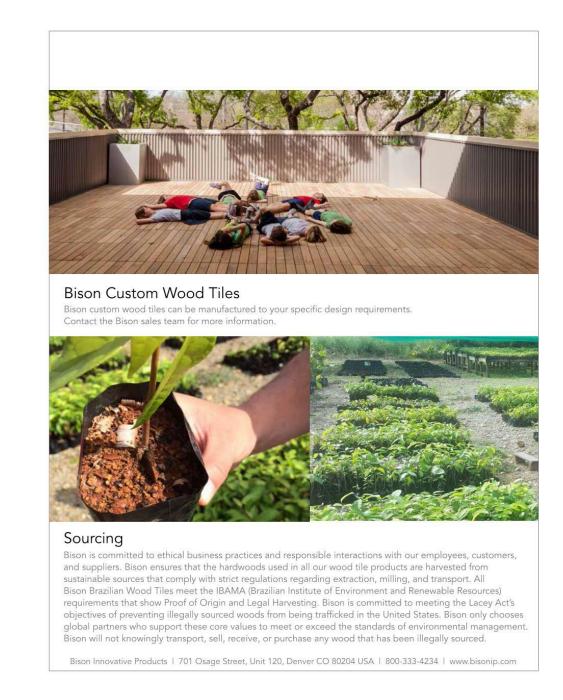


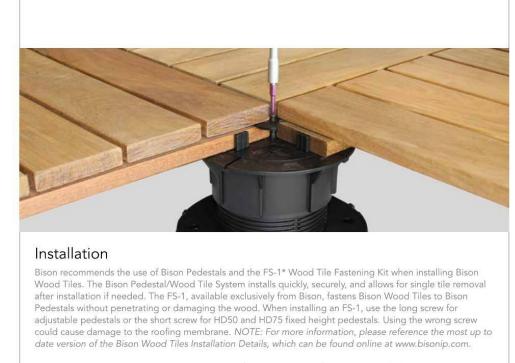




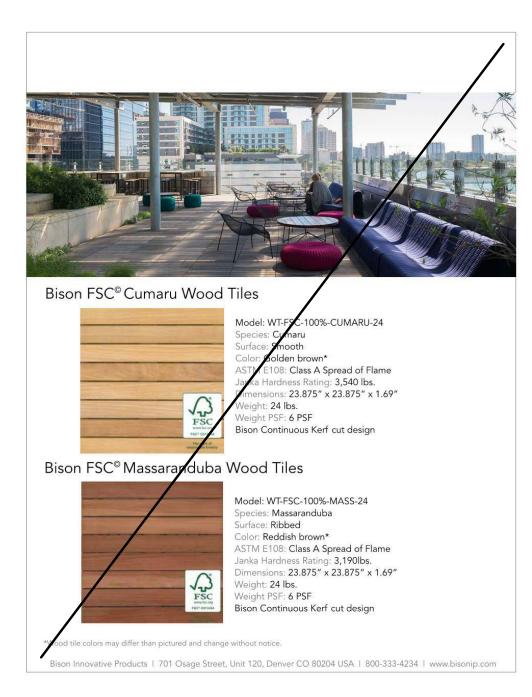


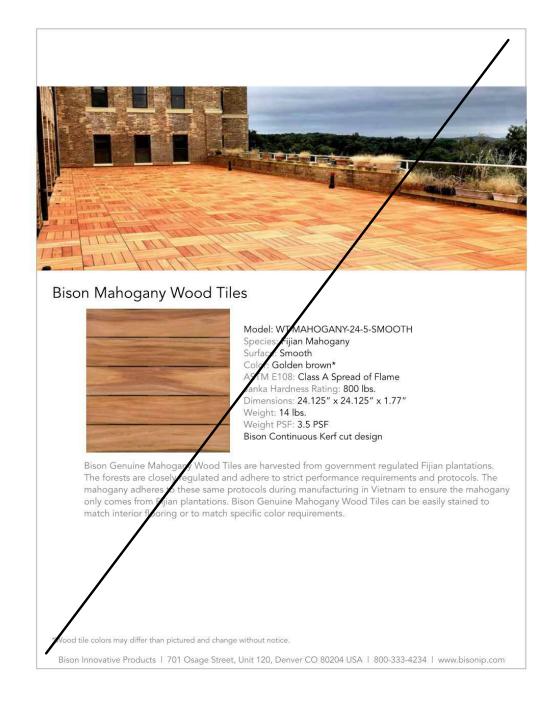






Slip Resistance Solar Reflective Indices Solar Reflectance	ASTM C1028 ASTM E 1980-11 ASTM C1549-09	SCOF Dry .90 and Wet .72 45 (Average) New 36 (Average) Weathered One Year 0.403 New
Solar Reflectance		36 (Average) Weathered One Year
	ASTM C1549-09	0.403 Now
and the second		0.321 Weathered One Year
Hemispherical Emittance	ASTM C1371-04a	0.894 New 0.925 Weathered One Year
Wind Uplift on Pedestals	FBC TAS-108	Aerodynamic Multiplier with Bison Wind System & Installation Guidelines
Seismic	ICC ES AC-156	For use in Seismic Zones A-F with Bison Seismic System & Installation Guidelines
Fire – Spread of Flame	ASTM E108	Class A Spread of Flame
Fire – Flame Spread & Smoke Developed	ASTM E84	Class B
Fire – SF WUI Under- Flame Test	SFA 12-7-A-4 Part A	Pass
Concentrated Load on Versadjust Pedestals	CISCA	Maximum Total Load 1,000 lbs (4,448 N) FoS:3
Jniform Load on /ersadjust Pedestals	ICC ES AC300-2010	Maximum Total Load 688 psf (33 kPa) FoS:3
	Fire – Spread of Flame Fire – Flame Spread & Smoke Developed Fire – SF WUI Under- l'ame Test Concentrated Load on Versadjust Pedestals Jniform Load on	Seismic     ICC ES AC-156       Fire – Spread of Flame     ASTM E108       Fire – Flame Spread & ASTM E84     ASTM E84       Smoke Developed     SFA 12-7-A-4 Part A       Fire – SF WUI Under- lame Test     SFA 12-7-A-4 Part A       Concentrated Load on     CISCA       Jniform Load on     ICC ES AC300-2010





#### Care & Maintenance Considerations Bison Wood Tiles are an ideal long-lasting, low-maintenance decking solution providing warmth, excellent

Recommendations are available online at www.bisonip.com.

#### weather resistance, and architectural charm to decks. Wood Characteristics

Bison Wood Tiles are made of South American (Cumaru, Ipê, Garapa, and Massaranduba), Fijian (Mahogany), and Chinese (Fused Bamboo) hardwoods which contain a rich variety of graining and coloration, are exceptionally dense, and resistant to insects. Bison Wood Tiles are a natural material that can absorb or lose moisture in different climates. The natural shading, coloration, and graining variations add to the architectural character and overall visual appeal of the finished product. Being a natural product, Bison Wood Tiles will react to the surrounding environmental conditions. Surfaces may spot or stain when exposed to various materials including: metal, steel, iron, or aluminum filings, pieces, equipment, tools, or fasteners; iron enriched fertilizers; plant debris; animal urine; beverage, food, or grease spills; or mildew that naturally occurs in humid or moist locations. To avoid spotting or staining during

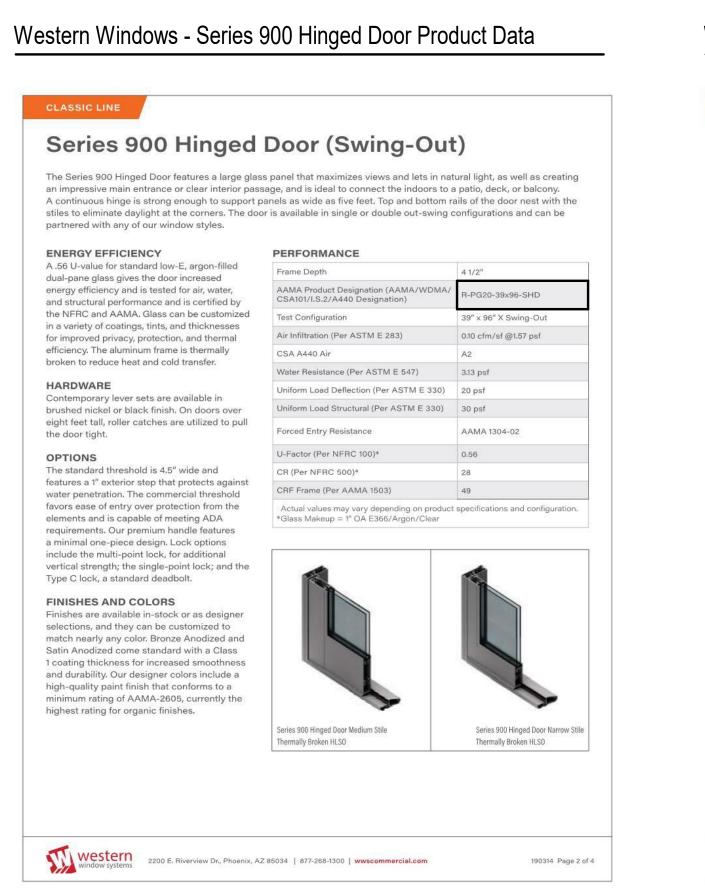
construction, Bison recommends covering the deck to reduce exposure to metal that could rust and react

#### with the deck surface. Cleaning, Sealing, & Staining

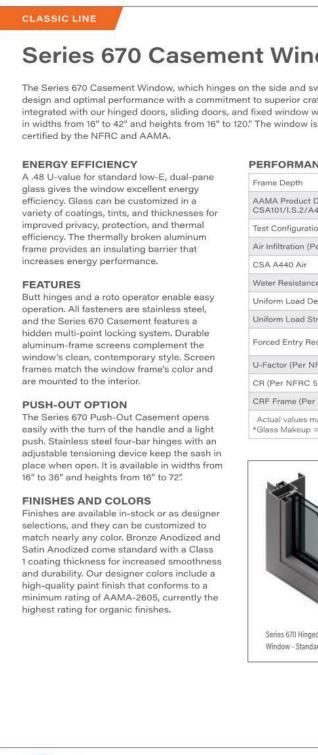
Bison Wood Tiles are made of hardwoods that will weather over time, developing a silvery-gray patina. In order to maintain the original coloring, Bison Wood Tiles can be periodically cleaned and sealed. Use deck products designed for hardwoods. Spot cleaning can be done, but for a consistent appearance, Bison recommends cleaning the entire deck. Most decks need to be cleaned after installation is complete. Test any cleaners, brighteners, or sealants in an inconspicuous area first before applying them to the installed deck. In addition, always check with the manufacturer of your roof membrane to ensure that any cleaning solution, stain, oil, deck brightener, or bleach will not compromise or damage the waterproofing membrane. Remember to use safety glasses, respirators, and gloves in handling any materials that contain chemicals. Refer to product manufacturer's SDS for more information on chemical components and safe handling practices. CAUTION: Do not scrub tiles with wire, iron, or steel brushes. The following manufacturers offer products specifically designed for use with dense hardwoods: Messmer's, Penofin, Defy, and TimberPro. Follow the manufacturers' instructions and repeat as needed to clean stubborn stains. Rinse the deck, adjacent walls, and surrounding areas thoroughly with water prior to and after using wood cleaners or brighteners. Once cleaned and dry, you may apply a UV finish or sealant to the wood if desired. NOTE: Additional Bison Wood Tile Care & Maintenance Considerations and Wood Tile Cleaning

Bison Innovative Products | 701 Osage Street, Unit 120, Denver CO 80204 USA | 800-333-4234 | www.bisonip.com

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## Western Windows - Series 670 Cas



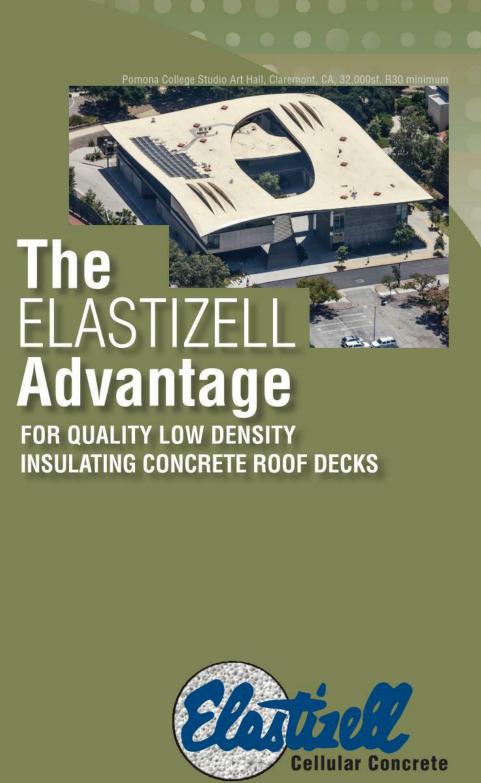
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ries 670 Casem	ent Window		Series 670 Awning	Window		S
nd optimal performance with a commi ad with our hinged doors, sliding doors	es on the side and swings outward to the left tment to superior craftsmanship. Designed wi s, and fixed window walls for maximum views o 120." The window is tested for air, water, and	ith a 4.5" frame depth, it can be and ventilation. It is available	The Series 670 Awning Window hinges on the top awning window is ideal for providing natural light optimal performance with a commitment to super 16" to 48." The window is tested for air, water, and	and ventilation in modern configurations. It ior craftsmanship. It is available in widths fi	combines clean design and rom 21" to 60" and heights from	The sectra maxi bear contr
YEFFICIENCY	PERFORMANCE		ENERGY EFFICIENCY A .49 U-value for standard low-E, dual-pane		4 1/2"	ENE
value for standard low-E, dual-pane /es the window excellent energy	Frame Depth	4 1/2"	glass gives the window excellent energy efficiency. Glass can be customized in a	AAMA Product Designation (AAMA/WDMA		A .36 dual-
y. Glass can be customized in a	AAMA Product Designation (AAMA/WDMA CSA101/I.S.2/A440 Designation)	V CW-PG50-36x60-C	variety of coatings, tints, and thicknesses for	CSA101/I.S.2/A440 Designation)	' CW-PG50-48x36-AP	door
f coatings, tints, and thicknesses for d privacy, protection, and thermal		36" × 60" X	improved privacy, protection, and thermal efficiency. The thermally broken aluminum	Test Configuration	48" × 36" ×	with and o
y. The thermally broken aluminum	Test Configuration		frame provides an insulating barrier that	Air Infiltration (Per ASTM E 283)	.10 cfm/sf @1.57 psf	coun
ovides an insulating barrier that s energy performance.	Air Infiltration (Per ASTM E 283)	.04 cfm/sf @1.57 psf	increases energy performance.	CSA A440 Air	N/A	alum brok
	CSA A440 Air	N/A	FEATURES	Water Resistance (Per ASTM E 547)	9.2 psf	labe
RES ges and a roto operator enable easy	Water Resistance (Per ASTM E 547)	9.2 psf	A roto handle and double scissor-arm operator enables easy operation. All fasteners	Uniform Load Deflection (Per ASTM E 330)	50 psf	code
operation. All fasteners are stainless steel,	Uniform Load Deflection (Per ASTM E 330)		are stainless steel, and the Series 670 Awning	Uniform Load Structural (Per ASTM E 330)	75 psf	HAI
Series 670 Casement features a nulti-point locking system. Durable	Uniform Load Structural (Per ASTM E 330)		features a hidden multi-point locking system. Durable aluminum-frame screens complement	Forced Entry Resistance	ASTM F588 Type B	The
n-frame screens complement the	Forced Entry Resistance	ASTM F588 Type B Grade 10 and CAWM 301 Type II	the window's clean, contemporary style.     U-Factor (Per NFRC 100)*       Screen frames the window frame's color and are mounted to the interior.     CR (Per NFRC 500)*       FINISHES AND COLORS     CRF Frame (Per AAMA 15)       Finishes are available in-stock or as designer     Actual values may vary de		and CAWM 301 Type II	3″ N
s clean, contemporary style. Screen natch the window frame's color and	U-Factor (Per NFRC 100)*	0.48			0.49	that
	CR (Per NFRC 500)*	43			43	the
e mounted to the interior.	CRF Frame (Per AAMA 1503)	56			N/A	OP'
es 670 Push-Out Casement opens	Actual values may vary depending on produc	uct specifications and configuration.		Actual values may vary depending on product *Glass Makeup = 1" OA E366/Argon/Clear	ct specifications and configuration.	Sill o
easily with the turn of the handle and a light push. Stainless steel four-bar hinges with an adjustable tensioning device keep the sash in place when open. It is available in widths from 16" to 36" and heights from 16" to 72". FINISHES AND COLORS	*Glass Makeup = 1" OA E366/Argon/Clear		match nearly any color. Bronze Anodized and Satin Anodized come standard with a Class 1 coating thickness for increased smoothness and durability. Our designer colors include a high-quality paint finish that conforms to a minimum rating of AAMA-2605, currently the highest rating for organic finishes.			a 1.5 out v ease out t is ide of fic appe
are available in-stock or as designer is, and they can be customized to early any color. Bronze Anodized and odized come standard with a Class g thickness for increased smoothness ability. Our designer colors include a ality paint finish that conforms to a in rating of AAMA-2605, currently the rating for organic finishes.			ingrest rating to organic minimes.	Series 670 Hinged Awning	Series 570 Hinged Autoing	flust slide pocl one- hand Fin Sele mate
	Series 670 Hinged Casement Window - Standard Sill	Series 670 Hinged Casement Window - High Base Sill		Window - Standard Sill	Series 670 Hinged Awning Window - High Base Sill	Satin 1 coa and high- minir high-



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## Light Weight Insulation Concrete

INSULATIV



### SECTION 035216 - LIGHTWEIGHT INSULATING CONCRETE ROOF DECKS **PART 1- GENERAL**

- 1.1 Description: Provide an insulating concrete (cellular or hybrid) roof deck system as shown on the Drawings and as needed for a complete and proper installation.
- 1.2 Applicator qualification: The Applicator shall be approved by the Manufacturer -Elastizell Corporation of America.
- 1.3 Certification: When required upon completion, a certificate from the Manufacturer and Applicator states that the materials and installation methods follow current practices.
- 1.4 Product data: Prior to start of the work, provide installation procedures, fire ratings, and wind uplift data for this application.

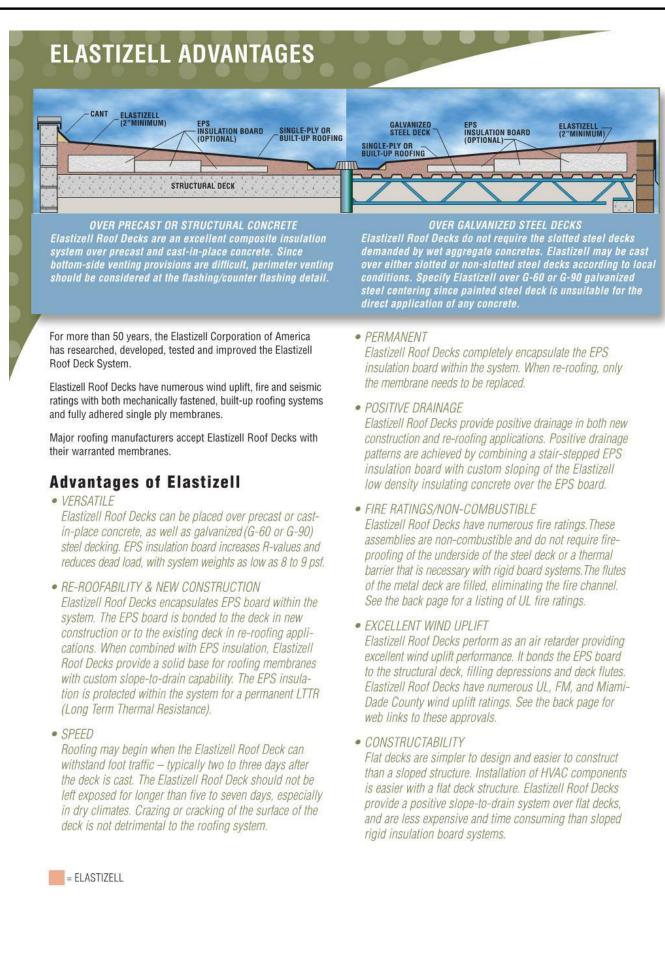
PART 2 – PRODUCTS

2.1 Insulating concrete is a slurry of cement, water, and Elastizell preformed foam to produce an insulating concrete of a specific density range. Foam concentrate shall comply with ASTM C869 when tested in accordance with ASTM C796.

- 2.2 Cement: Portland cement shall comply with ASTM C150
- 2.3 Water: Use potable water.
- 2.4 Aggregate: For hybrid mixtures, the expanded mineral aggregate shall comply with ASTM C332, Group I.
- 2.5 Use Manufacturer approved admixtures for water reducing and set acceleration. 2.6 Physical properties shall meet the following criteria: Range II Range III\* **Cast Density** 34-42 pcf 42-48 pcf
- **Minimum Compressive Strength** 160 psi 250 psi **Roofing Membrane Type** nailed base sheet fully adhered system \* Hybrid mixtures may be used with Range III by the addition of 1 to 2 bags of expanded aggregates.

2.7 Insulation Board: When included, a minimum 1.0 pcf EPS insulation board shall conform to ASTM C578 Type I, in thickness shown on the Drawings. EPS board shall have bond holes equal to approximately 3% of the board area. The board is placed in a bond coat and topped with a minimum 2" of insulating concrete. The EPS board may be stair-stepped or of constant thickness.

2.8 Expansion Joints: Provide Expansion joints if they are in the structural system and per NRCA recommendations. Control joint filler is not necessary at vertical protrusions.



### 2.9 Reinforcement: Keydeck Mesh Style No. 2160-2-1619 may be required for some fire rated systems over steel deck. Elastizell insulating concrete may contain Zell-Crete Fibers in the mixture, as required, in some instances.

PART 3 – EXECUTION 3.1 Inspection: Prior to starting work, any unsatisfactory conditions of related trades shall be corrected by others.

3.2 Installation: Install the insulating concrete roof deck system in accordance with current practices to insure proper drainage, the required insulation value, and fire and uplift ratings.

3.2.1 Preparation: General Contractor shall clear deck of all standing water, dirt, debris, ice, etc. Prepare the roof grades prior to placing the insulating concrete roof deck system. 3.2.2 Mixing and placing: Insulating concrete is mixed in approved equipment and pumped

into place. EPS bond coats, double casting, and two-density casting are acceptable methods of installation.

3.2.3 Finishing: Screed the insulating concrete to the proper thickness and slope. The surface shall be free of ridges and sharp projections prior to installation of the roofing membrane. 3.2.4 Weather: Insulating concrete may be place when temperatures are 32°F and rising. If

colder temperatures are anticipated, the Applicator shall take suitable precautions (heated water, etc.) for the installation of an acceptable deck. Coordinate the roofing membrane application with the insulating concrete installation to avoid prolonged exposure of the deck.

3.2.5 Testing: Check the cast density at the point of placement and adjust the mix to obtain the required cast density. A minimum 4 test specimens (3"x6" cylinders) shall be sampled at the point of placement daily or for each 100 cubic yards of material placed. Protect samples from damage, temperature extremes and test per ASTM C495. Compressive test samples shall not be oven-dried prior to testing. Manufacturer shall conduct and report test results.

3.3 Completion: For nailed base sheet applications, roofing membrane installation may begin after a nail pull test is conducted with an acceptable withdrawal resistance. This facilitates deck curing and reduces drying shrinkage. For fully adhered systems, a peel test of the membrane attachment should be conducted per the roofing manufacturer's requirement. This is dependent on the type of adhesive that the roofing manufacturer recommends.

Protect the insulating concrete roof deck from construction traffic. The roof deck should not be left exposed for longer than 7 days. The Applicator cannot be responsible for rain (moisture) entering the roof deck after the deck is cast and finished. The general contractor and roofing contractor are responsible for removing excess water in the system. Consult the roofing membrane manufacturer for their recommended nailing pattern or adhesive for securing the roofing membrane to the roof deck system.

## **XPS** Rigid Insulation



#### closed-cell extruded polystyrene (XPS) with a mir compressive strength of 25 psi. It has high water

R-value of 5.0 per inch of thickness. It is availabl board, ship-lap edge board, pre-cut 16 inch wide Compliance

CA BEARHFTI Lic. No. T 1506; Florida Product Approval - No. FL14164-R: MN Dept. of Energy - Chapter 7640; FM Approvals - see RoofNav Roof System Listing Miami-Dade County, FL; UL - See Classification Certificate A183.

Handling & Storage When stored outdoors, all product should be proexposure to direct sunlight using the original pack opaque, light-colored tarp. Material that has been should be covered or rewrapped. WARNING: This product is combustible. A protect thermal barrier is required as specified in the approcode. Protect it from exposure to open flame or c

## Health & Safety

synthetic materials that are generally recognized a food source for insects, fungus, mold, or mildew. I be properly installed and stored. Kingspan GreenGuard® Type IV XPS Insulation Bo This product should not be used as an exposed i in buildings where people can be expected to be approved fire protection barrier, such as 1/2" gyps equivalent, should be applied between this produ of such buildings. Fire and building codes should All assemblies should be evaluated for effectiven of vapor retarders to avoid condensation and subs

ISCIA OVERLAPS NEW ROOFING MEMBRAN ELASTIZELL ORIGINAL BUILT-UP ROOFING PONDED WATER 

Insulation board systems typically require total tear-off in reroofing applications. This is because the board has lost its strength and insulation value. Total tear-off is risky and can pose a threat to the building's interior. A great deal of debris must be hauled to mentally unacceptable.

Two inches of Elastizell low density insulating concrete adds 7 to 9 psf to the structure. Two inches of ponded water adds 10 psf dead load.

A major advantage of the Elastizell re-roofing system is that it may be applied directly over the existing roof to correct drainage. The addition of EPS insulation board encapsulated within the Elastizell provides increased thermal insulation and a permanent, solid base for the final roofing membrane system. If portions of the existing insulation are wet or deteriorated, they should be replaced. If the old roof remains in place, the mess, time, and expense of tear-off are avoided.

- 1. Check Existing Structure Analyze the existing system for load carrying capability.
- 2. Remove Loose Gravel All loose gravel must be removed from the roof deck.
- to the deck as the Elastizell deck is cast, slope-to-drain.
- 4. Apply New Membrane The roofing membrane is installed
- 5. Perimeter Venting Perimeter Venting is provided at the

- and increasing R-values.
- with rigid board insulation.

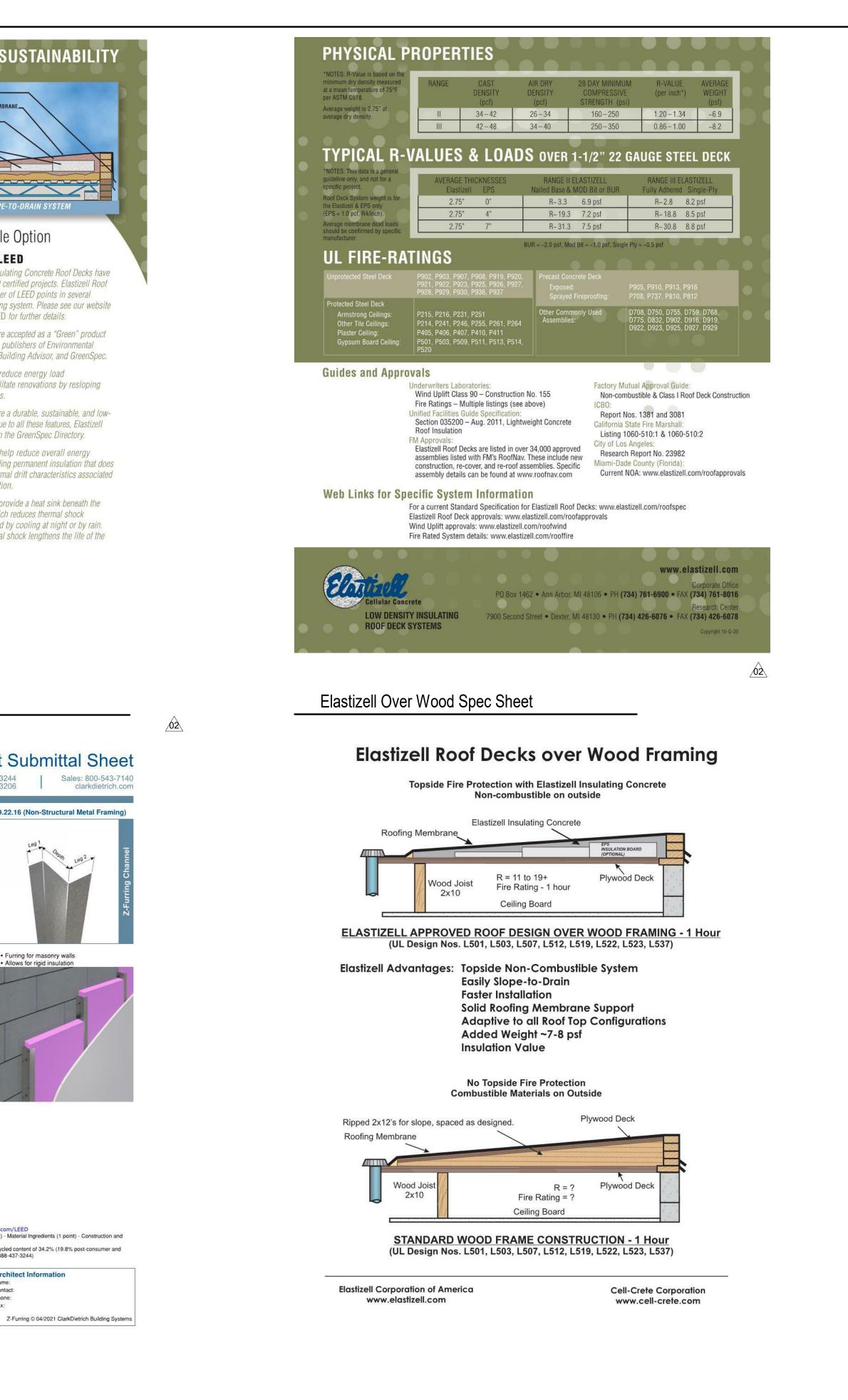
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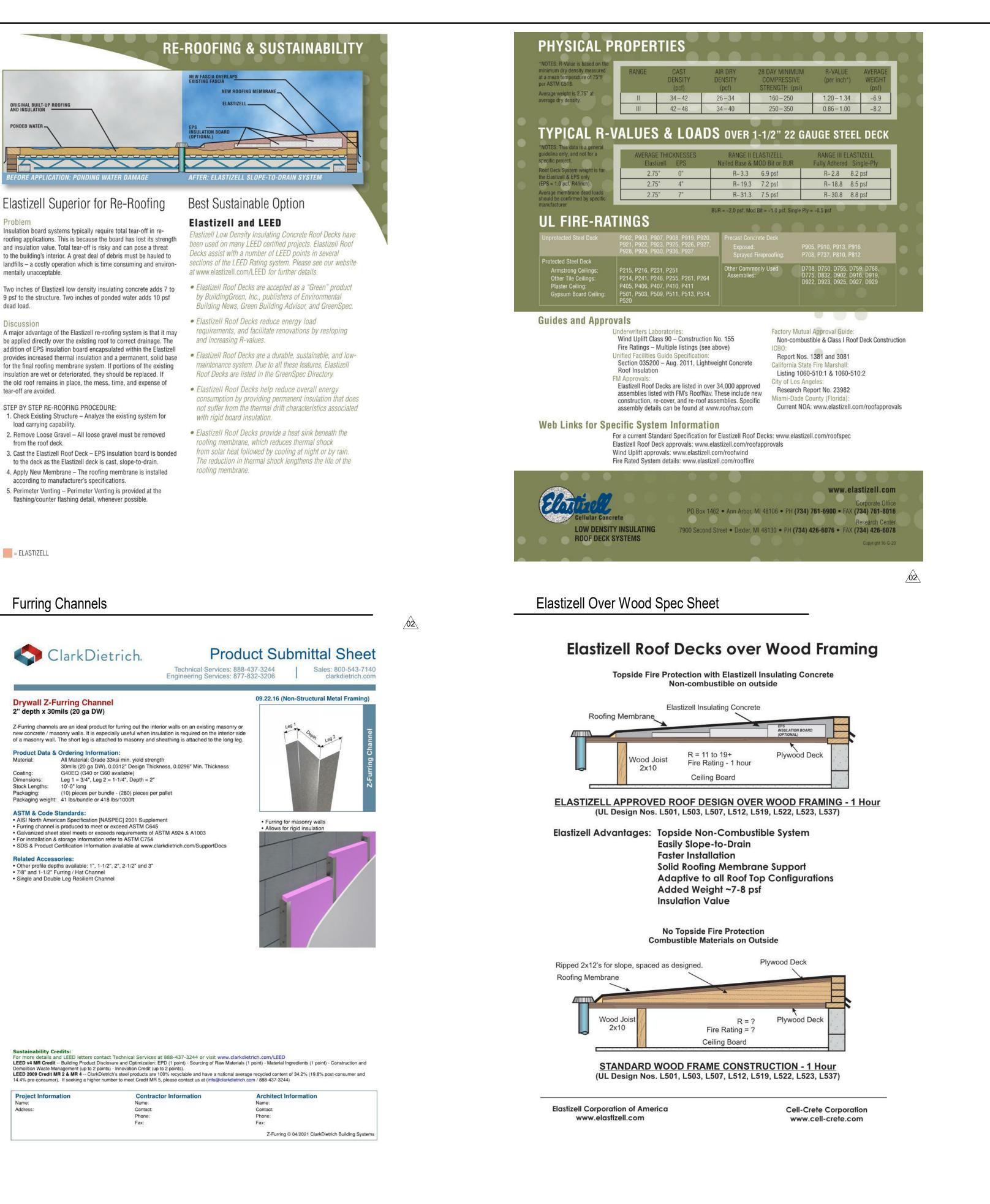
## Furring Channels

#### ClarkDietrich. Technical Services: 888-437-3244 Engineering Services: 877-832-3206 **Drywall Z-Furring Channel** 2" depth x 30mils (20 ga DW) Z-Furring channels are an ideal product for furring out the interior walls on an existing masonry or new concrete / masonry walls. It is especially useful when insulation is required on the interior side of a masonry wall. The short leg is attached to masonry and sheathing is attached to the long leg. Product Data & Ordering Information: All Material: Grade 33ksi min. yield strength Material: 30mils (20 ga DW), 0.0312" Design Thickness, 0.0296" Min. Thickness Coating: G40EQ (G40 or G60 available) Leg 1 = 3/4", Leg 2 = 1-1/4", Depth = 2" Stock Lengths: 10'-0" long Packaging: (10) pieces per bundle - (280) pieces per pallet Packaging weight: 41 lbs/bundle or 418 lbs/1000ft ASTM & Code Standards: AISI North American Specification [NASPEC] 2001 Supplement Furring channel is produced to meet or exceed ASTM C645 Galvanized sheet steel meets or exceeds requirements of ASTM A924 & A1003

For installation & storage information refer to ASTM C754

 7/8" and 1-1/2" Furring / Hat Channel Single and Double Leg Resilient Channel





# GreenGuard<sup>®</sup> Type IV XPS Insulation Box

88951 No 10	Product Data				
Board comprises	Property	Test Method	Result		
ninimum		General			
er resistance and	Nominal Thickness (in)4		1/2, 3/4, 1, 11/2, 2,		
ble in a square edge			21/2, 3, 4		
de board and a	Nominal Board Width <sup>4</sup>		16 in / 2 ft / 4 ft		
	Nominal Board Length (ft) <sup>4</sup>		8 Courses or Chielen		
	Edge Profile <sup>4</sup> Property Type	ASTM C578	Square or Shiplap IV		
	Compressive Strength, Min. (psi @10% deflection)	ASTM D1621	25		
	Water Absorption, Max. (% by volume)	ASTM C272	0.1		
	Water Vapor Permeance, Max. <sup>2</sup> (perm)	ASTM E96 (Desiccant Method)	1.5		
	Density, Min. (lb/ft <sup>3</sup> )	ASTM C303	1.6		
0.00	Recommended Service Temp., Max.		165		
ngs;		Thermal			
	Thermal Resistance, R–value' (°F·ft²·hr/Btu per in thick)	ASTM C518 (@75°F Mean Temperature)	5.0		
	Thermal Conductivity, k–value (Btu-in/hr-ft²-"F)	ASTM C518 (@75°F Mean Temperature)	0.2		
otected from	F	Fire & Smoke			
ckaging or an	Flame Spread <sup>3</sup> Smoke Developed <sup>3</sup>	ASTM E84 / UL723	15 (Class A) 140		
en unwrapped	1 Specimens are aged and tested in accordar	ace with FTC Rule (16 CFR, Part 460) a	nd ASTM C578		
	<sup>2</sup> Permeance shown is for 1" thick board. Pen <sup>3</sup> These numerical fame spread and smoke di				
ective barrier or propriate building	<sup>4</sup> These numerical name spread and similar by this material under actual fire conditions. <sup>4</sup> Not all combinations of thickness, length, wi Please refer to the Kingspan Insulation LLC.	All applicable building codes must be fo dth and edge profile are available.			
other ignition	For more information on on	ooifia building product			
n.	For more information on specific building product recommendations and installation guidelines, contact your Kingspan Insulation LLC representative.				
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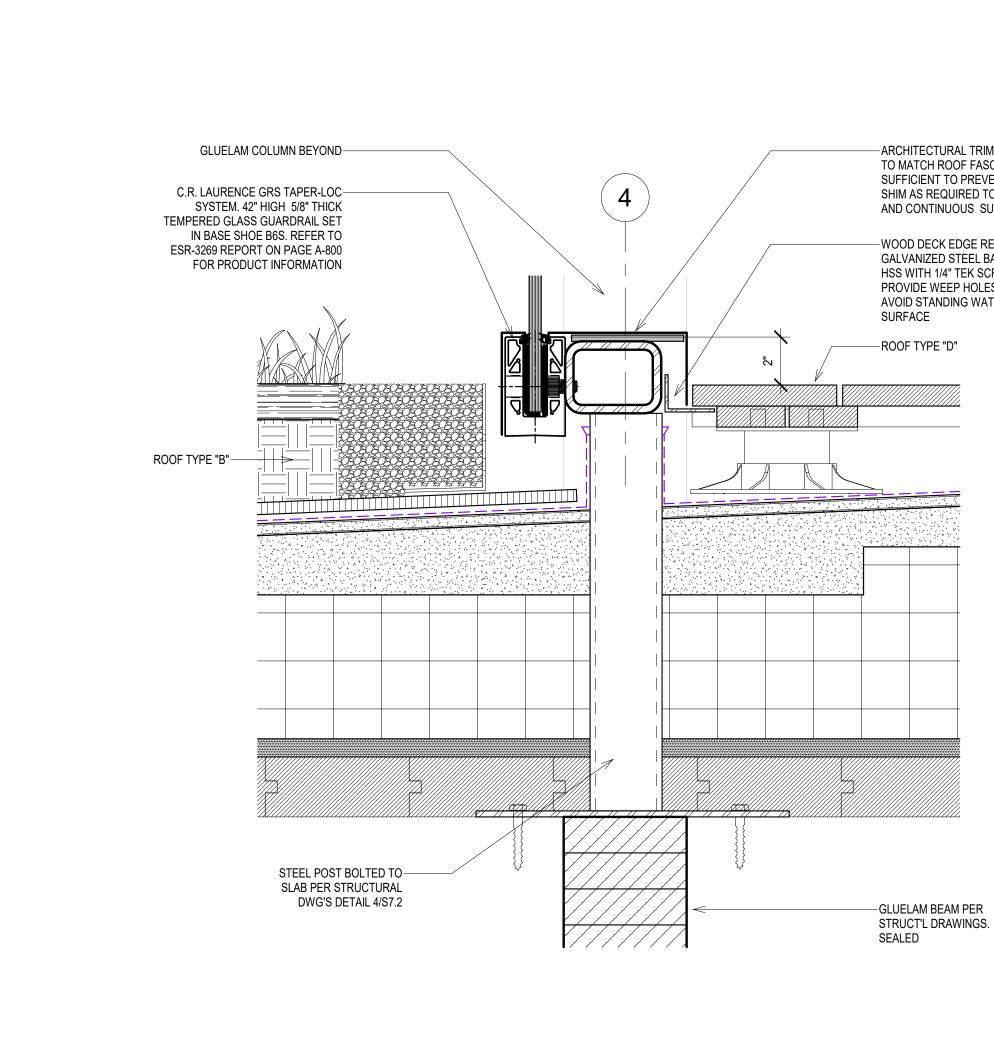
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www.kingspaninsulation.us

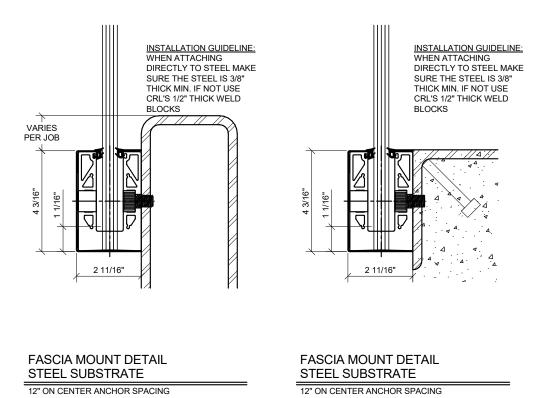
www.kingspaninsulation.ca

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2 CRL BASE SHOW TYP CONNECTIONS 3" = 1'-0"

#### -ARCHITECTURAL TRIM COLOR AND FINISH TO MATCH ROOF FASCIA, TYP, GA SUFFICIENT TO PREVENT OIL CANNING. SHIM AS REQUIRED TO PROVIDE A RIGID AND CONTINUOUS SUBSTRATE

#### -WOOD DECK EDGE RESTRAIN, 1/8" GALVANIZED STEEL BAR ATTACHED TO HSS WITH 1/4" TEK SCREWS @ 16" O.C. PROVIDE WEEP HOLES AS REQUIRED TO AVOID STANDING WATER ALONG TOP

Street Level 11' - 9"

C.R. LAURENCE GRS TAPER-LOC-SYSTEM. 42" HIGH 5/8" THICK TEMPERED GLASS GUARDRAIL SET IN BASE SHOE B6S. REFER TO ESR-3269 REPORT ON PAGE A-800 FOR PRODUCT INFORMATION. REFER TO DETAILS 4/A-700, 6/A-700, 8/A-704 TYPICAL AT STREET LEVEL

GUARDRAIL LOCATIONS

Extent of Glass Guardrail Scope

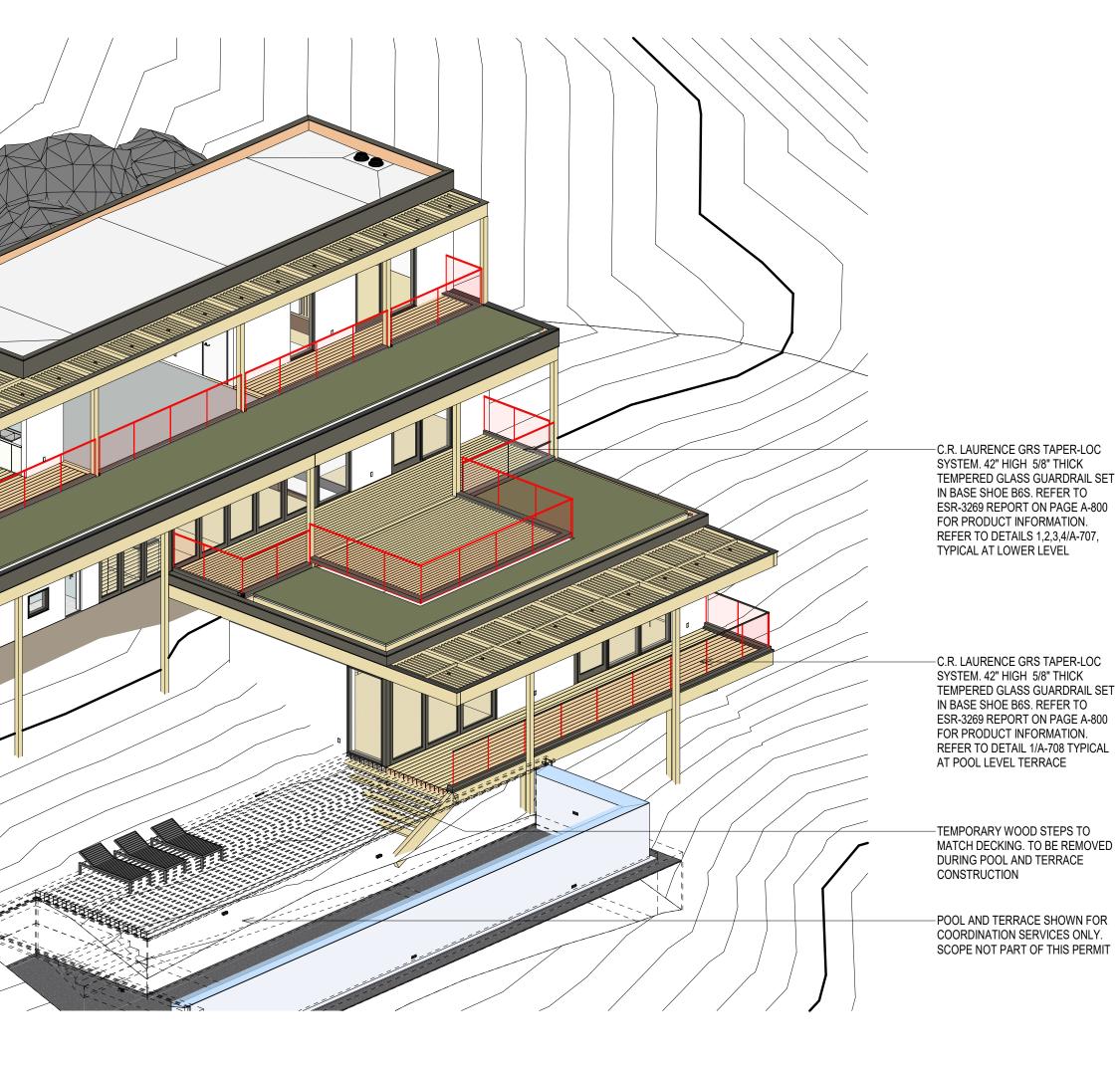
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## Vehicular Waterproofing Membrane

Vulkem<sup>®</sup> EWS with TECHNICAL Tremco PUMA BC (all grades): 6-gal pails TREMCO Tremco PUMA WC: 6-gal pails **PUMA Technology** DATA SHEET Fremco PUMA TC: 6-gal pails Waterproof Traffic Coating System Tremco PUMA Initiator: 22-lb in 2-gal pails & 55-lb in 6-gal pails Vehicular System Tremco PUMA Initiator+: 10-lb in 3-gal pails, 25-lb in 6-gal pails, 25 75-g pouches in a box Tremco PUMA Filler Powder: 55-lb bags Tremco PUMA Cleaner: 6-gal pails COLORS PRODUCT DESCRIPTION Tremco PUMA TC is available in Gray, Slate Gray, Charcoal, White, Beige, Tintable and Decorative. Vulkem® EWS with PUMA Technology is designed to have tenacious adhesion and extreme abrasion resistance. It can be driven on in Universal Color Paks are available for use with Tremco PUMA TC Tintable. one hour, which will minimize operation disruption. Vulkem Extreme Wearing System (EWS) is a waterproof traffic deck coating system that utilizes polyurethane-methacrylate (PUMA) technology. Vulkem EWS vehicular system is composed of a primer (Tremco APPLICABLE STANDARDS PUMA Primer or TREMprime VB Primer), a base coat (Tremco PUMA BC or BC LM), an intermediate wear coat (Tremco PUMA WC) ASTM C957 and a top coat (Tremco PUMA TC). All system components, except TREMprime VB, are cured using Tremco PUMA Initiator or CSA S413 Initiator+. FIRE RATED ASSEMBLIES Tremco PUMA Primer is a polymethyl-methacrylate (PMMA), two-component primer for porous and non-porous substrates. ANSI/UL790 - Standard Test Methods for Fire Tests of Roof Coverings CAN/ULC-S107 - Methods of Fire Tests of Roof Coverings TREMprime VB Primer is a two-component, epoxy-based, solvent-free vapor barrier primer for concrete and plywood surfaces. Tremco PUMA BC is a polyurethane-methacrylate (PUMA) base coat. Tremco PUMA BC bonds firmly to Tremco PUMA Primer. It INSTALLATION retains its integrity even if substrate movement causes hair-line cracks of up to 1/16" (1.5 mm). If cut or damaged, Tremco PUMA BC Concrete shall be water-cured and attain a 4000 PSI minimum compressive strength. Concrete finish shall be a light steel trowel will prevent water migration between itself and the substrate. followed by an equivalent ICRI #3-#4 finish. Moisture content in the concrete must be lower than 6% as measured using a Tramex CME 4 Moisture Meter. Depending on concrete construction and job site location, additional concrete testing may be required. Please Tremco PUMA BC LM is a low-modulus version of Tremco PUMA BC waterproofing membrane that is used when dynamic movement contact your local Tremco Sales or Technical representative. and extreme service temperature ranges are anticipated. Please refer to the Vulkem EWS Application Instructions for complete application details. The techniques involved may require Tremco PUMA WC is a polyurethane-methacrylate (PUMA) wear coat. Tremco PUMA WC is applied after Tremco PUMA BC has cured. modification to adjust to job-site specific conditions. Consult your Tremco Sales Representative or Tremco Technical Services for site The wear coat is loaded with aggregate to give the system excellent impact, abrasion and chemical resistance. conditions and requirements. Tremco PUMA TC is a polymethyl-methacrylate (PMMA) top coat. Interlaminary adhesion to Tremco PUMA WC is exceedingly strong. LIMITATIONS The top coat affords excellent abrasion resistance, UV stability and chemical resistance to complete the Vulkem EWS vehicular system. Use with adequate ventilation. Not for use over expanded polystyrene, extruded polystyrene, poured in place gypsum, lightweight insulating concrete, Tremco PUMA Initiator/Initiator+ is a reactive catalyst in the form of a white powder used to cure all PUMA/PMMA resins. cementitious wood fiber decks and coal tar pitch. Do not apply in falling precipitation or when precipitation is imminent. BASIC USES All surfaces must be sound, clean, free of standing water and free from contamination. Vulkem EWS is a cold-applied traffic deck coating system designed for waterproofing concrete slabs and protecting occupied areas Any questions regarding drying times, coverage rates and unique application techniques should be directed to Tremco Technical underneath from water damage. Additionally, the system will protect the concrete from the damaging effects of chloride, deicing Services or your local Tremco Sales Representative. salts, chemicals, gasoline, oils and anti- freeze. The Vehicular System is ideal for parking structures, high-wear turn and drive lanes, Do not apply over contaminated surfaces. helical turns, ramps, and ticket splitters. • Do not thin. • Substrate must be at least 5 °F (3 °C) above the measured dew point temperatures to avoid dew point conditions. FEATURES & BENEFITS Do not store in direct sunlight for prolonged periods. Unvented metal pan decks, slab-on-grade and hollow core plank decks require additional qualification prior to application. Please PUMA technology delivers extreme durability while maintaining its crack-bridging characteristics, eliminating the need for contact Tremco technical services for more information. reinforcing fabric. • Rapid set-up times allow for quick overall installation, as well as the ability to open up to traffic one hour later. • Can be applied at temperatures as low as 14 °F (-10 °C), which allows for continuation of projects in the colder months. WARRANTY Initiator adjustments allow for 30 to 45 min cure time between applications, even at temperatures below freezing. Tremco warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of • Extremely forgiving application allows users to apply additional coats long after the previous coat has cured. application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or Unique chemistry allows for easy repair. implied including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products. Compatible with Tremco sealants, coatings and expansion joints, which is essential for tie-ins, detailing and penetrations. Tremco's sole obligation shall be, at its option, to replace or refund the purchase price of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or damage. AVAILABILITY

PACKAGING Tremco PUMA Primer: 2-gal and 6-gal pails TREMprime VB Primer: Part A: 2.4-gal pails Part B: 1.2-gal pails

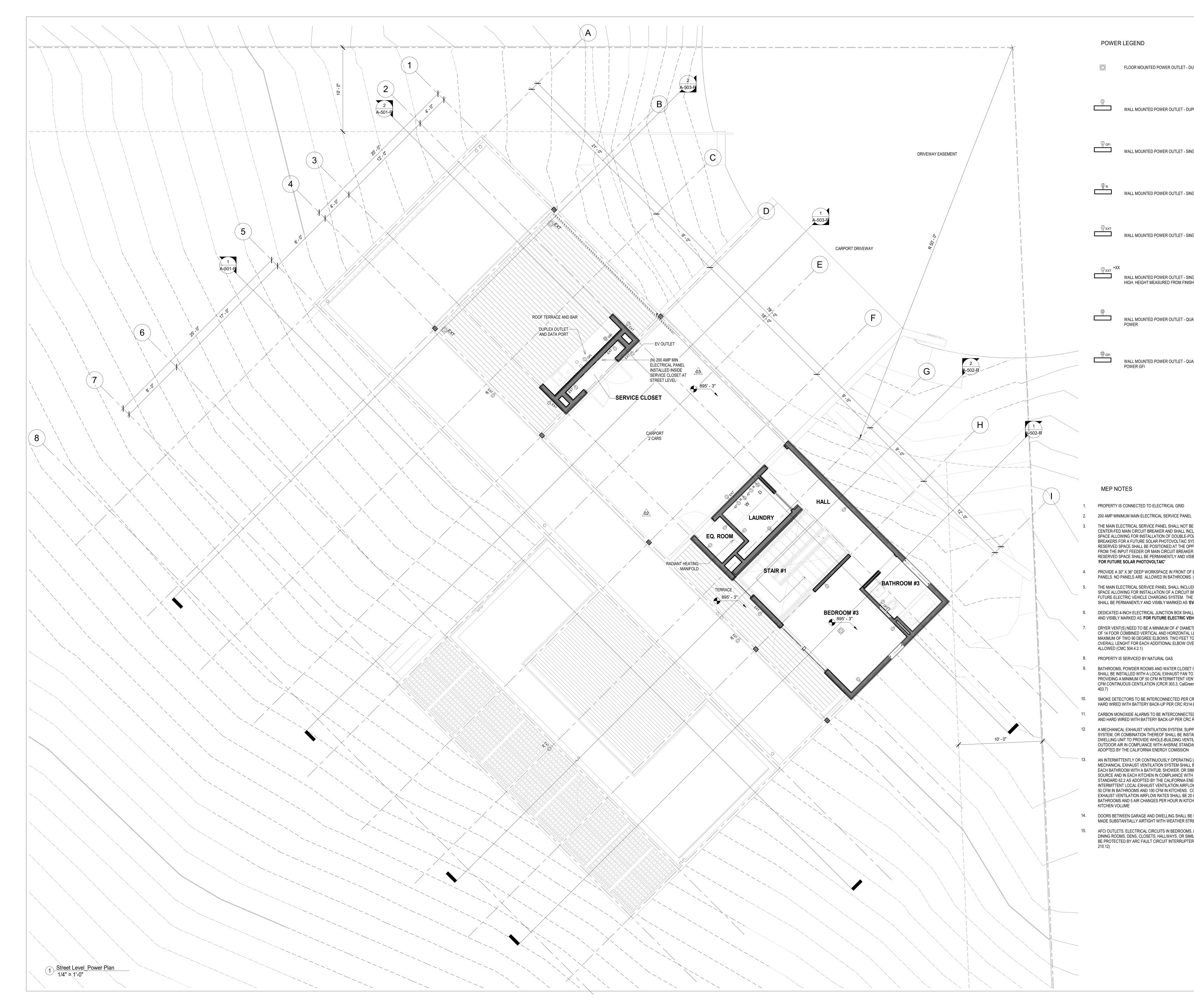
Immediately available from your local Tremco Sales Representative



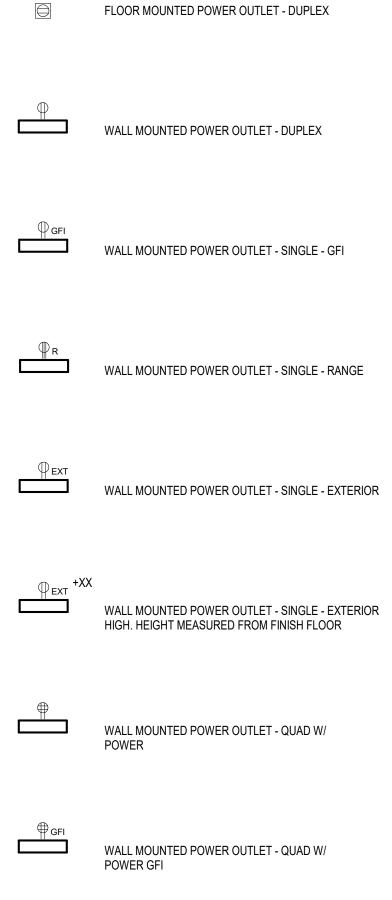
PROPERTY	TEST METHOD	TREMCO PUMA BC	TREMCO PUMA WC	TREMCO PUMA TO
VOC Content	Method 310	0 g/L	0 g/L	0 g/L
% Solids (by weight)	ASTM D1353	100%	100%	100%
Drying Time @ 75 °F, 50% RH	ASTM D1640	80 mil film, 1 hr	65 mil film, 1 hr	17 mil film, 1 hr
Weathering	ASTM D822 Weatherometer 350 hr	N/A	N/A	No effect
Elongation	ASTM D638	407-420%	250%	130%
Elongation	ASTM D5147	Min 30%	Min 30%	Min 30%
Tensile Strength	ASTM D638 @ 75 °F	991 - 1680 psi	1550 psi	986 psi
Tearing Resistance	ASTM D4073	91 lbf	148 lbf	203 lbf
Hardness (Shore D)	ASTM D2240	18 - 35	45	55
Hardness (Shore A)	ASTM D2240	65-87	96	100
Abrasion Resistance (1000 cycles)	ATSM D4060	N/A	N/A	51 mg
Low-Temperature Crack Bridging	ASTM C1305	Passes	N/A	N/A
Taber Abrasion	ASTM C501	Passes	N/A	N/A
Peak Load @ 73 °F, avg.	ASTM D5147	>70 lbf/in	81 lbf/in	238 lb/in
Puncture Resistance	ASTM D5602	> 56 lbs	> 56 lbs	> 56 lbs
Water Absorption	ASTM D570	< 0.1%	< 0.1%	< 0.1%
Water Vapor Transmission	ASTM E96	0.03 perms	0.03 perms	0.03 perms
Adhesion-in-Peel	ASTM C794	Concrete failure with primer	35 lbs	N/A
Self-Ignition Temperature	ASTM D1929	800 °F 427 °C	840 °F 449 °C	850 °F 454 °C
Smoke Density	ASTM D2843	4.1%	28.7%	2.1%
Rate of Burn	ASTM D2845	1.2 in/min	1.7 in/min	0.2 in/min
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ercial Sealants & Waterproofing | tremcosealants. 1451 Jacobson Ave Ashland OH 44805 1350 Gay-Lussac, Unit: 3 Boucherville QC J4B 7G4 5 Green Rd 220 Wicksteed Ave Toronto ON M4H1G7 TREMCO Beachwood OH 44122 216.292.5000 / 800.321.7906 419.289.2050 / 800.321.6357 416.421.3300 / 800.363.3213 514.521.9555

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POWER LEGEND



### MEP NOTES

1. PROPERTY IS CONNECTED TO ELECTRICAL GRID

THE MAIN ELECTRICAL SERVICE PANEL SHALL NOT BE OF A TYPE WITH A CENTER-FED MAIN CIRCUIT BREAKER AND SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF DOUBLE-POLE CIRCUIT BREAKERS FOR A FUTURE SOLAR PHOTOVOLTAIC SYSTEM. SUCH RESERVED SPACE SHALL BE POSITIONED AT THE OPPOSITE (LOAD) END FROM THE INPUT FEEDER OR MAIN CIRCUIT BREAKER LOCATION. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS 'FOR FUTURE SOLAR PHOTOVOLTAIC'

#### PROVIDE A 30" X 36" DEEP WORKSPACE IN FRONT OF ELECTRICAL PANELS. NO PANELS ARE ALLOWED IN BATHROOMS. (CEC 110.26)

THE MAIN ELECTRICAL SERVICE PANEL SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF A CIRCUIT BREAKER FOR A FUTURE ELECTRIC VEHICLE CHARGING SYSTEM. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS 'EV CAPABLE'

DEDICATED 4-INCH ELECTRICAL JUNCTION BOX SHALL BE PERMANENTLY AND VISIBLY MARKED AS 'FOR FUTURE ELECTRIC VEHICLE CHARGING'

DRYER VENT(S) NEED TO BE A MINIMUM OF 4" DIAMETER AND A MAXIMUM OF 14 FOOR COMBINED VERTICAL AND HORIZONTAL LENGTH WITH A MAXIMUM OF TWO 90 DEGREE ELBOWS. TWO FEET TO BE DEDUCTED TO OVERALL LENGHT FOR EACH ADDITIONAL ELBOW OVER MAXIMUM ALLOWED (CMC 504.4.2.1)

PROPERTY IS SERVICED BY NATURAL GAS

BATHROOMS, POWDER ROOMS AND WATER CLOSET COMPARTMENTS SHALL BE INSTALLED WITH A LOCAL EXHAUST FAN TO EXTERIOR PROVIDING A MINIMUM OF 50 CFM INTERMITTENT VENTILATION OR 20 CFM CONTINUOUS CENTILATION (CRCR 303.3, CalGreen 4.506.1, CMC Table 403.7)

SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD WIRED WITH BATTERY BACK-UP PER CRC R314.6

CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R315.7 AND HARD WIRED WITH BATTERY BACK-UP PER CRC R315.5

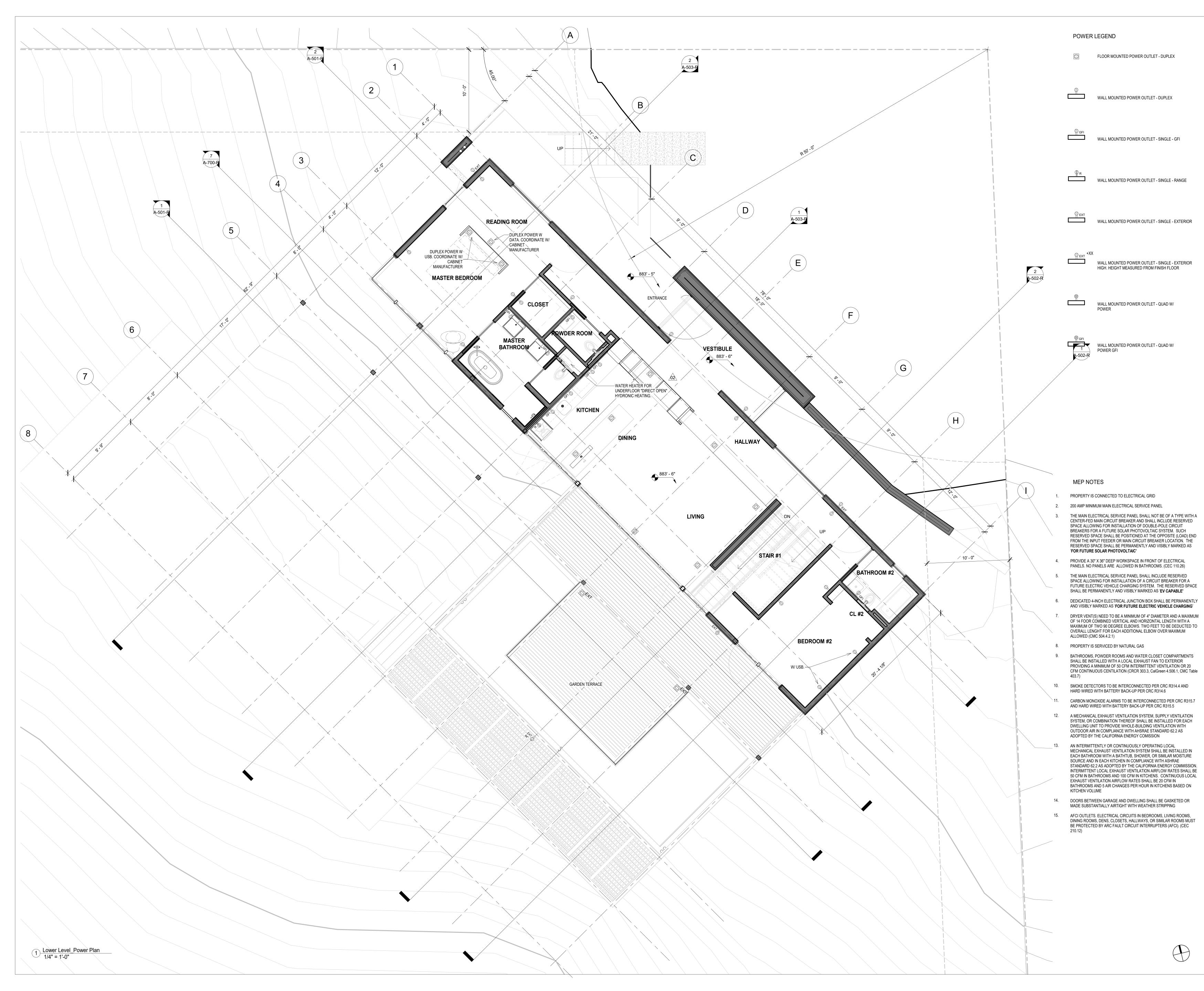
12. A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH AHSRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMISSION

> AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 50 CFM IN BATHROOMS AND 100 CFM IN KITCHENS. CONTINUOUS LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 20 CFM IN BATHROOMS AND 5 AIR CHANGES PER HOUR IN KITCHENS BASED ON KITCHEN VOLUME

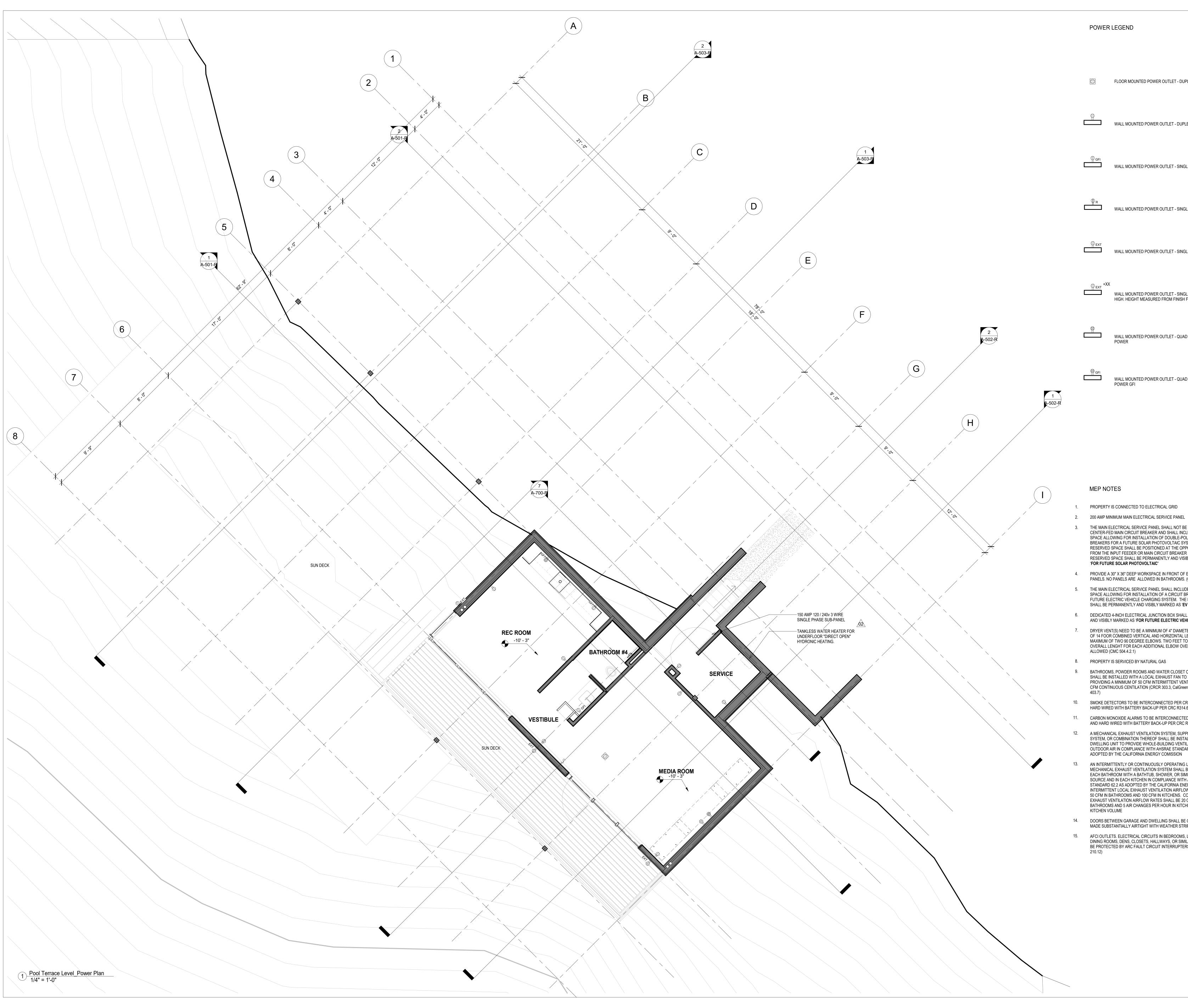
DOORS BETWEEN GARAGE AND DWELLING SHALL BE GASKETED OR MADE SUBSTANTIALLY AIRTIGHT WITH WEATHER STRIPPING

15. AFCI OUTLETS. ELECTRICAL CIRCUITS IN BEDROOMS, LIVING ROOMS, DINING ROOMS, DENS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS MUST BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS (AFCI). (CEC 210.12)

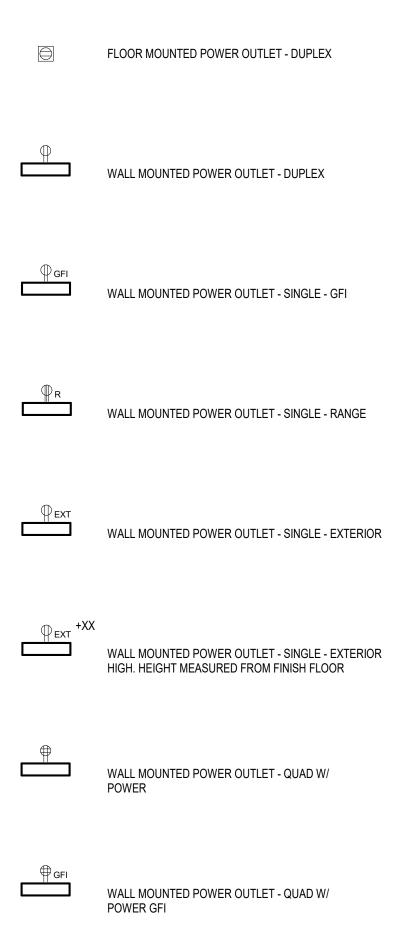
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### POWER LEGEND



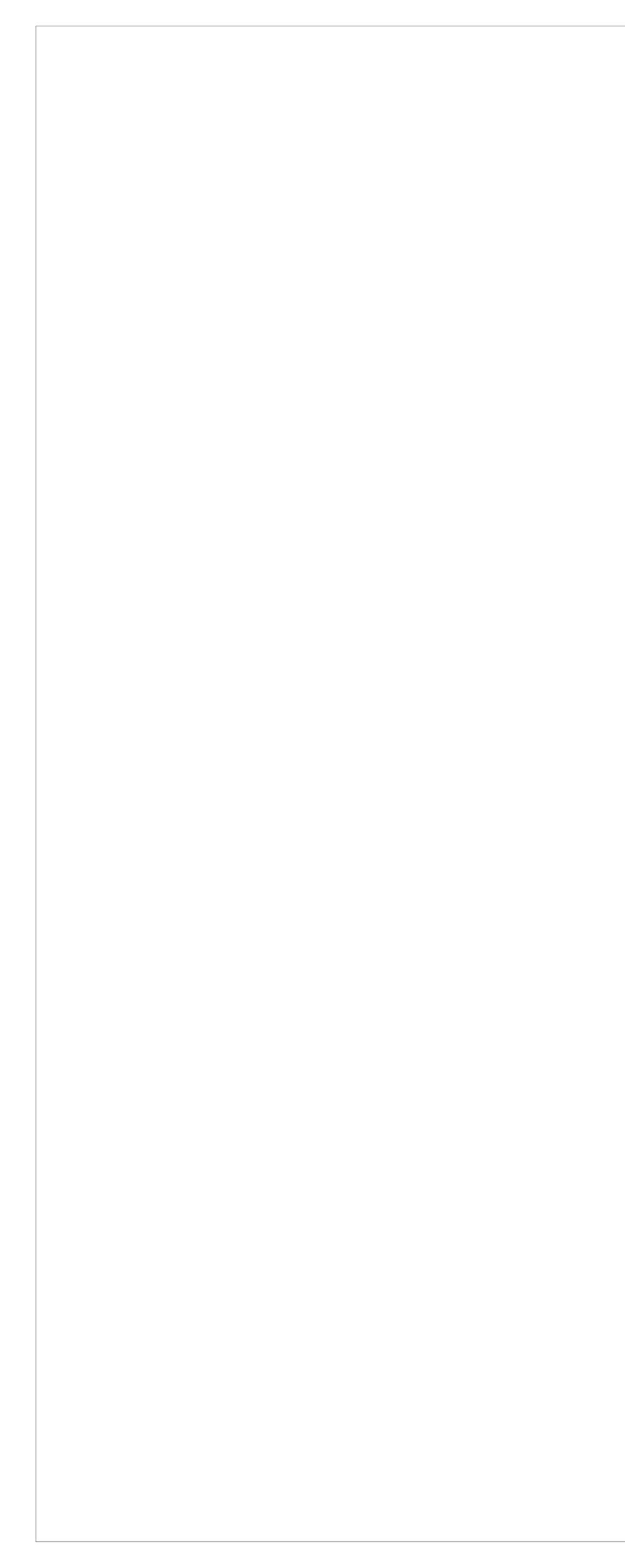
### MEP NOTES

- 1. PROPERTY IS CONNECTED TO ELECTRICAL GRID
- THE MAIN ELECTRICAL SERVICE PANEL SHALL NOT BE OF A TYPE WITH A CENTER-FED MAIN CIRCUIT BREAKER AND SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF DOUBLE-POLE CIRCUIT BREAKERS FOR A FUTURE SOLAR PHOTOVOLTAIC SYSTEM. SUCH RESERVED SPACE SHALL BE POSITIONED AT THE OPPOSITE (LOAD) END FROM THE INPUT FEEDER OR MAIN CIRCUIT BREAKER LOCATION. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS 'FOR FUTURE SOLAR PHOTOVOLTAIC'
- 4. PROVIDE A 30" X 36" DEEP WORKSPACE IN FRONT OF ELECTRICAL PANELS. NO PANELS ARE ALLOWED IN BATHROOMS. (CEC 110.26)
- THE MAIN ELECTRICAL SERVICE PANEL SHALL INCLUDE RESERVED SPACE ALLOWING FOR INSTALLATION OF A CIRCUIT BREAKER FOR A FUTURE ELECTRIC VEHICLE CHARGING SYSTEM. THE RESERVED SPACE SHALL BE PERMANENTLY AND VISIBLY MARKED AS '**EV CAPABLE'**
- 6. DEDICATED 4-INCH ELECTRICAL JUNCTION BOX SHALL BE PERMANENTLY AND VISIBLY MARKED AS '**FOR FUTURE ELECTRIC VEHICLE CHARGING**'

7. DRYER VENT(S) NEED TO BE A MINIMUM OF 4" DIAMETER AND A MAXIMUM OF 14 FOOR COMBINED VERTICAL AND HORIZONTAL LENGTH WITH A MAXIMUM OF TWO 90 DEGREE ELBOWS. TWO FEET TO BE DEDUCTED TO OVERALL LENGHT FOR EACH ADDITIONAL ELBOW OVER MAXIMUM ALLOWED (CMC 504.4.2.1)

- PROPERTY IS SERVICED BY NATURAL GAS
- BATHROOMS, POWDER ROOMS AND WATER CLOSET COMPARTMENTS SHALL BE INSTALLED WITH A LOCAL EXHAUST FAN TO EXTERIOR PROVIDING A MINIMUM OF 50 CFM INTERMITTENT VENTILATION OR 20 CFM CONTINUOUS CENTILATION (CRCR 303.3, CalGreen 4.506.1, CMC Table 403.7)
- 10. SMOKE DETECTORS TO BE INTERCONNECTED PER CRC R314.4 AND HARD WIRED WITH BATTERY BACK-UP PER CRC R314.6
- 11. CARBON MONOXIDE ALARMS TO BE INTERCONNECTED PER CRC R315.7 AND HARD WIRED WITH BATTERY BACK-UP PER CRC R315.5
- 12. A MECHANICAL EXHAUST VENTILATION SYSTEM, SUPPLY VENTILATION SYSTEM, OR COMBINATION THEREOF SHALL BE INSTALLED FOR EACH DWELLING UNIT TO PROVIDE WHOLE-BUILDING VENTILATION WITH OUTDOOR AIR IN COMPLIANCE WITH AHSRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMISSION
- AN INTERMITTENTLY OR CONTINUOUSLY OPERATING LOCAL MECHANICAL EXHAUST VENTILATION SYSTEM SHALL BE INSTALLED IN EACH BATHROOM WITH A BATHTUB, SHOWER, OR SIMILAR MOISTURE SOURCE AND IN EACH KITCHEN IN COMPLIANCE WITH ASHRAE STANDARD 62.2 AS ADOPTED BY THE CALIFORNIA ENERGY COMMISSION. INTERMITTENT LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 50 CFM IN BATHROOMS AND 100 CFM IN KITCHENS. CONTINUOUS LOCAL EXHAUST VENTILATION AIRFLOW RATES SHALL BE 20 CFM IN BATHROOMS AND 5 AIR CHANGES PER HOUR IN KITCHENS BASED ON KITCHEN VOLUME
- 14. DOORS BETWEEN GARAGE AND DWELLING SHALL BE GASKETED OR MADE SUBSTANTIALLY AIRTIGHT WITH WEATHER STRIPPING
- 15. AFCI OUTLETS. ELECTRICAL CIRCUITS IN BEDROOMS, LIVING ROOMS, DINING ROOMS, DENS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS MUST BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS (AFCI). (CEC 210.12)

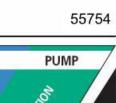
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Street Level	790		x	1/2 PEX O2	8	1185	5-240	5-300	120	140	3.75	600	5 Wall	1	Med/High
Lower Level	1565	x		1/2 PEX O2	9	2100	7-300	7-300	120	140	5.25		7 Wall	1	High
Pool Level	445	x		1/2 PEX O2	9	600	2-300	2-300	120	140	1.50		2 Wall	1	Medium

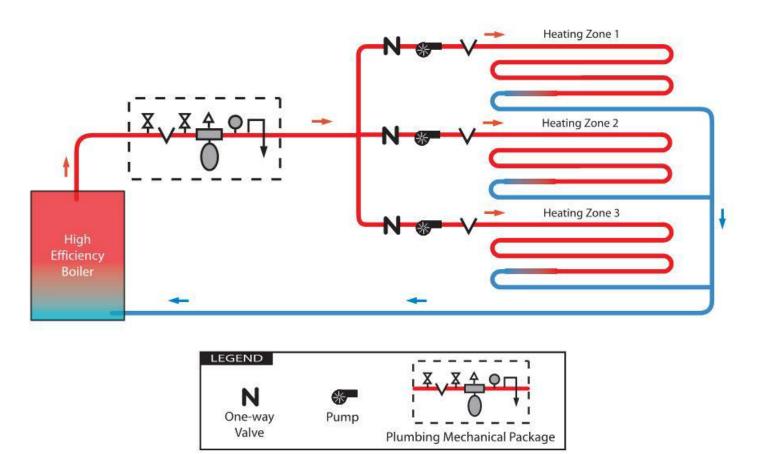
Notes:

Patricia, please call 800-451-7593 with any questions. Please check your local building codes with this system. We recommend installing 2 inches of extruded polystyrene underneath your slab. Thanks, Ian Prevost





# Mechanical Schematic Drawing of a Closed Heating System having 3 zones



### OPERATION

Heat is provided when the pump is turned on by the thermostat. Warm water (or other fluid) flows from the boiler throughout the heating zone until heat is no longer needed.

ADVANTAGES

Non potable fluids can be used (such as antifreeze solutions). High heat outputs. Simplified code approvals.

NOTES: These mechanical drawings are intended to illustrate the mechanical operation of the system in general. Individual projects will vary and these drawings may not show every single component that will be necessary in every instance. It is also important to check with local codes.

Radiantec	PRO	JECT NAME:	Patricia Dziu	Patricia Dziuk					
HEATING CALCULATION HEATED AREA	Solution State	energy is a second	Constant of the second se	CS MARKE	tiet and a second seco				
Street Level	790	0.6	40	18960	27650				
Lower Level	1565	0.6	40	37560	62600				
Pool Level 3	445	0.5	40	8900	17800				

Notes:

SOME IMPORTANT NOTES ABOUT FREE DESIGN ASSISTANCE

1. A complete design for an underfloor radiant heating system would include a complete review of the plans, a study of State and Local Building codes, a detailed heat loss calculation, coordination with the builder, several site visits, coordination with the supplier of the heating unit, a written contract, and a fee of several thousand dollars.

2. This free service is not to be confused with a complete design. *It is intended to be useful to the customer for making preliminary decisions*. This information is given in good faith, but Radiantec Company makes no warranty or assumes no liability for its accuracy.

3. It is not possible for Radiantec Company to be aware of the ramifications of all State and Local building codes. *Code compliance is the customer's responsibility.* Radiantec Company will assist the customer in obtaining waivers or exceptions when new technology conflicts with applicable codes. Radiantec Company will not apply restocking fees if exchanges are needed to meet applicable codes.

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## **GENERAL NOTES**

- 1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH LOCAL STANDARDS AND THE APPLICABLE PROVISIONS OF THE 2016 CALIFORNIA BUILDING CODE (C.B.C.) AS AMENDED BY THE COUNTY OF SAN DIEGO.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE JOB SITE BEFORE STARTING WORK, AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- 3. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- 4. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES AND TYPICAL DETAILS IN CASE OF CONFLICT
- 5. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS. SECTIONS OR DETAILS ON THESE STRUCTURAL DRAWINGS
- 6. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE THE SAME AS FOR SIMILAR WORK SHOWN ON THE DRAWINGS.
- 7. OPENINGS, POCKETS, SLEEVES, BLOCK-OUTS, ETC SHALL NOT BE PLACED IN SLABS, BEAMS, GIRDERS, COLUMNS, WALLS, FOUNDATIONS, ETC UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS. THE ENGINEER SHALL BE NOTIFIED WHEN OTHER DRAWINGS SHOW OPENINGS, POCKETS, SLEEVES, BLOCK-OUTS, ETC THAT ARE NOT SHOWN ON THESE STRUCTURAL DRAWINGS.
- 8. NO PIPES OR DUCTS SHALL BE PLACED IN FOUNDATION SLABS UNLESS SPECIFICALLY SHOWN OR NOTED ON THESE STRUCTURAL DRAWINGS, NO STRUCTURAL MEMBER SHALL BE CUT FOR PIPES. DUCTS, ETC , UNLESS SPECIFICALLY SHOWN.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF DETAILS FOR AVOIDING THE INTERFERENCE OF MATERIALS TO BE EMBEDDED IN CONCRETE INCLUDING BUT NOT LIMITED TO REINFORCING STEEL, MISCELLANEOUS STEEL AND CONDUITS. THIS IS BEST ACCOMPLISHED THROUGH CAREFUL COORDINATION OF SHOP DRAWINGS.
- 10. PRIOR TO BEGINNING EXCAVATION, THE CONTRACTOR SHALL LOCATE EXISTING UTILITY SERVICES IN AREAS TO BE EXCAVATED.
- 11. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES IN THE WORK AREA AND SHALL REPAIR ANY DAMAGE CAUSED BY HIS OR HER OPERATIONS AT HIS OR HER OWN COST.
- 12. MATERIALS SHALL BE EVENLY DISTRIBUTED IF PLACED ON FRAMED FLOORS AND ROOFS. LOADS SHALL NOT EXCEED ALLOWABLE LOADING FOR THE SUPPORTING MEMBERS AND THEIR CONNECTIONS.
- 13. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES AND GIN POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE OR SHE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT CONSTITUTE INSPECTION OF THE ABOVE ITEMS.
- 14. THIS STRUCTURE IS DEPENDENT UPON DIAPHRAGM ACTION FOR LATERAL STABILITY. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE ERECTION SHORING AND BRACING AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION
- 15. THESE STRUCTURAL DRAWINGS ILLUSTRATE THE NEW STRUCTURAL MEMBERS. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS WHICH REQUIRED SPECIAL PROVISIONS DURING CONSTRUCTION OF THE STRUCTURAL MEMBERS.
- 16. REFER TO ARCHITECTURAL PLANS FOR FLOOR DEPRESSIONS. SLOPES, DRAINS, CURBS, PADS, EMBEDDED ITEMS, AND NON-BEARING PARTITIONS. REFER TO ELECTRICAL AND MECHANICAL PLANS FOR SLEEVES, HANGARS FOR PILES, DUCTS, AND EQUIPMENT.
- 17. PROVIDE A LIST OF PROPOSED SUBSTITUTIONS AND MANUFACTURER'S ICC ES REPORTS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 18. ELEVATIONS GIVEN ON THE STRUCTURAL DRAWINGS ARE REFERENCED FROM FINISHED FLOOR.
- 19. ALL ASTM STANDARDS LISTED HEREIN, SHALL BE OF THE ISSUE LISTED IN THE CURRENT ANNUAL BOOK OF STANDARDS OF THE AMERICAN SOCIETY FOR TESTING AND MATERIALS.
- 20. THE SPECIAL INSPECTOR MUST BE APPROVED BY THE COUNTY OF SAN DIEGO.
- 21. THE TESTING LABORATORY MUST BE APPROVED BY THE COUNTY OF SAN DIEGO. 22. THE CONCRETE SLABS ON GRADE HAVE NOT BEEN DESIGNED TO SUPPORT CONSTRUCTION EQUIPMENT. THEREFORE THE BUILDER IS
- RESPONSIBLE FOR THE DESIGN OF THE SLAB WHERE CONSTRUCTION EQUIPMENT IS TO BE PLACED ALONG WITH ANY SUPPORTING STRUCTURE INCLUDING RETAINING WALLS. ANY DAMAGE TO THE CONCRETE SLAB OR RETAINING WALLS AS A RESULT OF CONSTRUCTION EQUIPMENT IS THE RESPONSIBILITY OF THE BUILDER. IT IS THE BUILDERS RESPONSIBILITY FOR THE REPAIR OF ANY DAMAGE INCLUDING ADDITIONAL DESIGN COSTS.

## **DESIGN CRITERIA**

1. APPLICALBE CODES: 2016 CALIFORNIA BUILDING CODE

2.	GRAVITY DESIGN LOADS:A.ROOF DEAD LOAD
3.	SEISMIC DESIGN CRITERIAA. SITE CLASS DB. SEISMIC DESIGN CATEGORY DC. $S_S = 0.769$ D. $S_1 = 0.281$ E. $S_{MS} = 0.917$ F. $S_{M1} = 0.573$ G. $S_{DS} = 0.611$ H. $S_{D1} = 0.382$ I. $I = 1$ J. $R = 6.5$ (LIGHT FRAME WOOD SHEAR WALLS)K. $CS = 0.1004W$ (EQUIVALENT LATERAL FORCE PROCEDURE)
4.	WIND DESIGN CRITERIA:         II           A. RISK CATEGORY         II           B. DESIGN WIND SPEED (Vult)         110 MPH           C. EXPOSURE CATEGORY         C           D. GCpi         +/- 0.18

## SOIL CONDITIONS

- 1. THE FOUNDATION DESIGN IS BASED UPON A GEOTECHNICAL ACCUTECH ENGINEERING DATED MARCH 29, 2019 FOR SUBJECT PARCEL 501-041-22-0 WITH THE FOLLOWING REQUIREMENTS:
- A. SOIL BEARING CAPACITY ... 4000 PSF WHEN FOOTING IS FOUNDED A MINIMUM 12" INTO APPROVED FOUNDATIONAL MATERIAL B PASSIVE PRESSURE
- COEFFICIENT OF FRICTION 0.35 D. ACTIVE PRESSURE (LEVEL BACKFILL) 40 PCF RESTRAINED PRESSURE (BASEMENT WALLS) ......... 60 PCF
- F. INCREASE SOIL PRESSURES BY 20% FOR SEISMIC INERTIAL FORCES. ALL SITEWORK, FOOTING EXCAVATIONS, GRADING, SITE PREPARATION, FILL, COMPACTION, WATERPROOFING, AND ALL FOUNDATION WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT. ALTERNATE METHODS NOT DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO COMMENCING FOUNDATION WORK.
- BEARING MATERIAL SHALL BE INSPECTED BY A QUALIFIED INDEPENDENT TESTING LABRATORY PRIOR TO PLACEMENT OF CONCRETE.
- 4. FOUNDATIONS MAY BE EARTH FORMED IF SOIL CONDITIONS AND GEOTECHNICAL REPORT ALLOW.
- 5. INSTALL ALL UNDERSLAB PIPING AND ELECTRICAL WORK AND RECOMPACT ANY DISTURBED COMPACTED MATERIAL BEFORE PLACEMENT OF CONCRETE SLAB ON GRADE.
- 6. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT, THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED. AND THE FOUNDATION EXCAVATIONS COMPLY WITH THE SOILS REPORT AND APPROVED PLANS

## **REINFORCING STEEL**

- 1. WELDED WIRE FABRIC SHALL BE MADE OF BILLET STEEL, COLD DRAWING IN ACCORDANCE WITH ASTM A185 AND A82. LAP WELDED WIRE FABRIC A MINIMUM OF 12".
- 2. REINFORCING BARS SHALL BE ASTM 615 GRADE 60. 3. WELDING OF REINFORCING IS NOT PERMITTED
- 4. ALL REINFORCING SHALL BE COLD BENT.
- 5. PROVIDE CLASS BE SPLICES IN REINFORCING, PROVIDE 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318 UNLESS SPECIFICALLY DETAILS.
- REFER TO TYPICAL DETAILS FOR REQUIRED LAP LENGTHS.
- PROVIDE CONTINUOUS HORIZONTAL AND CONTINUOUS FOOTING REINFORCING WITH 90 DEGREE BENDS AT CORNERS AND INTERSECTIONS.
- 7. REINFORCING SHALL BE LOCATED 1 1/2 INCHES MINIMUM CLEAR FROM TOP OF SLAB.

## CAST IN PLACE CONCRETE

- ALL CONCRETE SHALL BE REGULAR WEIGHT (UNO), 150 PCF, MAX W/C = 0.5, MIN CEMENT CONTENT = 500 LB/CY, 3/4" AGGREGATE, (ASTM 33) NO PEA GRAVEL MIXES PERMITTED. CEMENT SHALL BE TYPE II OR TYPE V.
- 2. LIGHTWEIGHT CONCRETE SHALL BE 42 PCF, MAX 3. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS
- FULLOWS FOUNDATIONS: 4000 PSI 4000 PSI SLAB ON GRADE:
- ALL OTHER CONCRETE: 4000 PSI 4. ANY ADMIXTURES USED SHALL NOT CONTAIN CALCIUM CHLORIDE. ADMIXTURES MAY BE USED FOR ALL CONCRETE.
- . CONCRETE PROTECTION FOR REINFORCEMENT. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:
- A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ...
- B. CONCRETE EXPOSED TO EARTH OR WEATHER NO. 6 THROUGH NO. 18 BARS NO. 5 BAR AND SMALLER ..
- C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
  - SLAB. WALLS NO. 14 AND NO. 18 BARS . NO. 11 BAR AND SMALLER ..
  - BEAMS, COLUMNS PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS .
- 6. REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO THE PLACEMENT OF CONCRETE. STABBING OF INTO WET CONCRETE IS NOT PERMITTED.
- CONCRETE MIXES MAY CONTAIN FLY ASH. THE FLY ASH SHALL CONFORM TO ASTM C618 CLASS F AND THE LOSS OF IGNITION SHALL BE LIMITED TO 2% THE ADDITION RATE SHALL NOT EXCEED 15% OF THE CEMENT WEIGHT. THE CONTRACTOR SHALL SUBMIT ALL CERTIFICATES SHOWING THE FLY ASH CONFORMS TO THE ABOVE CRITERIA.
- 8. WHERE CONTINUOUS BARS ARE CALLED OUT, PROVIDE TIED CONTACT SPLICES AS REQUIRED. STAGGER SPLICES OF ALTERNATE BARS BY THE FULL SPLICE LENGTH.
- CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS TO THE ENGINEER FOR APPROVAL PRIOR TO PLACING CONCRETE.
- 10. THE ENGINEER SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ALL CONCRETE PLACEMENT.
- 11. AGGREGATE FOR HARD ROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM 33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.

REPORT BY

300 PSF/FT DEPTH

MIN COVER

(INCHES)

1 1/2

1 1/2 3/4

1 1/2

## WOOD

VERTICAL FRAMING

MEMBERS.

1. ALL WOOD MEMBERS SHALL BE DOUGLAS FIR/LARCH, CONFORMING TO THE CBC STANDARD 23-1 USING CURRENT WWPA GRADING RULES, UNLESS OTHERWISE NOTED. EACH PIECE OF LUMBER SHALL BE GRADE MARKED. HORIZONTAL FRAMING MEMBERS..

THICKNESS 2" & 3": NO. 2 ALL OTHER HORIZONTAI MEMBERS: NO.1, UNO.

#### 4x AND 6x POSTS: NO. 1 ALL OTHER VERTICAL MEMBERS: NO. 2

- 2. ALL PLYWOOD SHALL CONFORM TO UBC STANDARD 23-2 AND SHALL BE IDENTIFIED WITH APA GRADE MARK. SEE PLANS FOR THICKNESS. ROOF SHEATHING: .... 5/8" : STRUCTURAL I (24/16) OR ICBO EQUAL WALL SHEATHING: .... 1/2" : STRUCTURAL I (24/0) OR ICBO EQUAL
- 3. RUN LONG DIMENSION OF PLYWOOD PERPENDICULAR TO FRAMING MEMBERS. NAIL AS INDICATED ON PLANS WITH COMMON WIRE NAILS.
- 4. 2" SOLID BLOCKING SHALL BE PLACED BETWEEN ALL JOISTS AND RAFTERS AT SUPPORTS.
- 5. LAG SCREWS: PREDRILL WITH A BIT SIZE OF 65% OF THE SHANK DIAMETER FOR THE THREADED PORTION. LEAD HOLES SHALL BE THE SAME LENGTH AS THE UNTHREADED SHANK AND THE SAME DIAMETER AS THE SHANK. SCREW ALL LAGS INTO PLACE. CUT WASHERS SHALL BE PROVIDED UNDER HEADS WHICH BEAR ON WOOD.
- 6. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE UNLESS OTHERWISE DETAILED. 7. NO CHECKS OR SPLITS ALLOWED AT AREAS TO BE BOLTED.
- 8. SEE SHEAR WALL SCHEDULE ON DRAWINGS FOR REQUIREMENTS FOR SHEAR WALLS .
- 9. ALL CONNECTORS SHALL BE BY SIMPSON STRONG-TIE COMPANY OR ICBO EQUAL.

10. DIAPHRAGM (VERTICAL AND HORIZONTAL) SHEATHING NAILS OR OTHER APPROVED CONNECTORS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING.

# MASONRY

- 1. REINFORCED MASONRY WORK AND MATERIALS SHALL CONFORM TO THE CURRENT VERSION OF TMS 402/602.
- 2. CONCRETE BLOCK: ASTM C-90. GRADE N. MEDIUM WEIGHT, OPEN END UNITS COMPLYING TO ASTM C426 FOR SHRINKAGE AND DRYING. fm=1500
- 3. MORTAR: ASTM C270 TYPE S WITH 28 DAY COMPRESSIVE STRENGTH OF 1800 PSI PROVIDE BOND BEAM UNITS AT ALL HORIZONTAL REINFORCEMENT f'm = 1500 PSI ALL CMU SHALL BE LAID IN RUNNING BOND UNO
- 4. GROUT: ASTM C476 WITH 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI. MAXIMUM AGGREGATE SIZE IS 3/8 INCH.
- 5. PROVIDE CONTINUOUS REINFORCED VERTICAL CELLS FULL HEIGHT AT ALL JAMB AND WALL CORNERS. 6. ALL MASONRY SHALL BE SOLID GROUTED PROVIDE BOND BEAM UNITS AT ALL HORIZONTAL REINFORCEMENT, ALL CMU SHALL BE LAID IN RUNNING
- BOND UNO. 7. REINFORCEMENT SPLICES: LAP 40 48 BAR DIAMETERS OR 24" WHICHEVER IS GREATER BAR DIAMETERS OR 1'-8", WHICHEVER IS GREATER.
- 8. VERTICAL REINFORCEMENT SHALL BE DOWELED TO THE SUPPORTING MEMBERS WITH THE SAME SIZE AND SPACING OF REINFORCEMENT AS CALLED FOR ON THE DRAWINGS OR THE STANDARD NOTES.
- 9. HORIZONTAL CONSTRUCTION JOINTS IN GROUT POUR SHALL BE MADE BY STOPPING THE GROUT 1-1/2" BELOW TOP OF MASONRY UNIT.
- 10. ALL GROUT SHALL BE VIBRATED WITH HIGH FREQUENCY INTERNAL MECHANICAL VIBRATING EQUIPMENT.
- 11. GROUTING OF WALLS, AT CONTRACTOR'S OPTION, SHALL COMPLY WITH THE CBC REQUIREMENTS FOR EITHER LOW OR HIGH LIFT GROUTING.
- 12. ANCHORS, BOLTS, EMBEDMENTS, WALL INSERTS, ETC. SHALL BE TIED INTO PLACE PRIOR TO POUR, GROUTED SOLID IN POSITION, NO STABBING IS ALLOWED.
- 13. VERTICAL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO PLACEMENT OF GROUT. VERTICAL REINFORCING SHALL HAVE A MINIMUM GROUT COVER OF 1/2 INCH TO THE INSIDE FACE OF CMU AND A MINIMUM TOTAL COVER INCLUDING MASONRY OF 2 INCHES.
- 14. IF FOUNDATION DOWELS DO NOT LINE UP WITH A VERTICAL CMU CELL, DO NOT SLOPE DOWEL GREATER THAN ONE HORIZONTAL IN SIX VERTICAL. IF SLOPE EXCEEDS ONE IN SIX, PROVIDE NEW DOWEL EMBED INTO CONCRETE WITH HILTI HY150 MAX EPOXY. CONTACT ENGINEER FOR PROPER EMBEDMENT OF REINFORCING INTO CONCRETE FOUNDATION. INSTALL UNDER CONTINUOUS INSPECTION.
- 15. PIPING OR CONDUIT EMBEDDED IN REINFORCED MASONRY SHALL NOT EXCEED 1 INCH IN DIAMETER AND LOCATION SHALL BE APPROVED BY ARCHITECT/ENGINEER.

# STRUCTURAL GLUED LAMINATED TIMBERS

- 1. MATERIAL, MANUFACTURER AND QUALITY CONTROL SHALL BE IN CONFORMANCE WITH CURRENT VERSION OF ANSI/AITC STANDARD A190.1 AND ASTM D 3737, "DESIGN AND MANUFACTURER OF STRUCTURAL GLUED-LAMINATED TIMBER." MEMBERS SHALL BE MARKED WITH QUALITY MARK.
- 2. ALL GLULAM TIMBERS SHALL BE DOUGLAS FIR/LARCH 24F-V8 (E2.0)
- 3. AN A.I.T.C. CERTIFICATE OF COMPLIANCE FOR GLUED LAMINATED WOOD MEMBERS SHALL BE GIVEN TO THE BUILDING INSPECTOR PRIOR TO INSTALLATION.
- 4. ADHESIVE SHALL MEET THE REQUIREMENTS FOR WET CONDITIONS OF SERVICE, SUITABLE FOR EXTERIOR EXPOSURE CONDITIONS.
- 5. HOLES OR NOTCHES IN GLUED-LAMINATED BEAMS ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED

# STRUCTURAL STEEL

- 1. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWII DESIGNATIONS: A992 (FY = 50 KSI)
  - WIDE FLANGE SHAPES CHANNELS, ANGLES, PLATES, ETC. A36 (FY = 36 KSI) STRUCTURAL TUBE (HSS) STRUCTURAL PIPE
- BOLTS SHALL CONFORM TO ASTM A 307, UNO ALL BOLTS SHALL BE INSTALLED WITH CUT STEEL WASHERS BOLT HOLES SHALL BE 1/16-INCH OVERSIZED
- 3. ALL WELDING SHALL BE PERFORMED BY CERTIFIED OPERATORS UNDER THE SUPERVISION OF AN APPROVED FABRICATOR USING THE ELECTRIC SHIELDED ARC PROCESS AS FORMULATED BY THE AMERICAN WELDING SOCIETY
- 4. STEEL SHALL BE IDENTIFIED BY HEAT OR MELT NUMBERS AND SHALL BE ACCOMPANIED BY TEST REPORTS.
- 5. AISC STANDARD BEAM CONNECTIONS SHALL BE USED FOR CONNECTIONS NOT SHOWN (AISC LATEST EDITION USING 3/4-INCH BOLTS.
- 6. ALL STEEL SHALL BE FABRICATED TO FIT TOGETHER PLUMB AND TRUE IN THE FIELD WITHOUT ALTERATION
- 7. ALL STRUCTURAL STEEL IS TO BE HOT DIP GALVANIZED. PROVIDE BOLTS. NUTS, AND WASHERS THAT ARE HOT DIP GALVANIZED ACCORDING TO ASTM A153 CLASS C. 8. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS OR AT A SHOP
- CERTIFIED TO DO SUCH WORK USING ELECTRIC ARC WELDING PROCESS AND SHALL CONFORM TO AISC AND AWS STANDARDS. 9. ALL TESTING AND WELDING OF STRUCTURAL STEEL AND ALL
- CERTIFICATION OF WELDERS SHALL BE PER AWS D1.1. REFER TO SPECIAL INSPECTION NOTES FOR ADDITIONAL WELDING REQUIREMENTS. 10. ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE
- SEISMIC FORCE RESISTING SYSTEM SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT MINUS 20°F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.
- 11. AN ERECTION PLAN PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER INCORPORATING ALL LOCAL. STATE AND FEDERAL SAFETY REQUIREMENTS, SHALL BE SUBMITTED TO THE BUILDING INSPECTION DEPARTMENT OF THE CITY OF LA MESA.
- 12. SPLICING OF STRUCTURAL STEEL MEMBERS IS NOT ALLOWED. 13. STRUCTURAL STEEL SHALL BE CLEANED OF RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS WHERE REQUIRED FOR FABRICATION, FITTING UP OR WELDING.
- 14. DO NOT CUT ANY STRUCTURAL STEEL MEMBERS IN CONFLICT WITH THE WORK WITHOUT PRIOR APPROVAL BY THE ENGINEER UNLESS SPECIFICALLY SHOWN ON THE CONSTRUCTION DOCUMENTS. 15. PROVIDE STRUCTURAL STEEL SHOP DRWINGS FOR ENGINEERS REVIEW
- PRIOR TO FABICATION. 16. ALL HOLES IN STEEL MEMBERS SHALL BE DRILLED OR PUNCHED. TORCH
- CUT HOLES ARE NOT ALLOWED. 17. TEMPORARY BRACING DESIGNED BY OTHERS SHALL BE REQUIRED TO
- ENSURE THE ALIGNMENT AND STABILITY OF THE STRUCTURAL STEEL DURING ERECTION AND SHALL REMAIN IN PLACE UNTIL PERMANENT CONDITIONS AS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE IN PLACE.
- 18. PROVIDE GROUT FOR BASE PLATES THAT IS NON-SHRINK, NON-METALLIC GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI.

# STEEL DECK

- 1. STEEL DECK FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST STEEL DECK INSTITUTE DESIGN MANUAL.
- 2. STEEL DECK SHALL CONFORM TO A653 WITH MINIMUM YIELD STRENGTH OF 50
- 3. WHERE PARTIAL PANELS ARE REQUIRED TO COMPLETE THE DECK INSTALLATION A THE PERIMETER OF THE STRUCTURE, PROVIDE CONTINUOUS CLOSURE SECTION TO FACILITATE DECK SUPPORT AND ATTACHMENT AS REQUIRED.
- 4. ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3 AND SHALL BE PERFORMED BY CERTIFIED SHEET WELDERS THOROUGHLY EXPERIENCED IN WELDING SHEET STEEL.
- 5. NO LOADS ARE PERMITED TO BE SUSPENDED FROM ANY DECKING. ATTACHMENTS FOR CEILING, DUCTWORK, PIPING, CONDUIT, UTILITIES, LIGHTS, ETC
- 6. TOP FLANGES OF BEAMS OR OTHER SUPPORTING ELEMENTS TO BE FREE OF RUST. MILL SCALE, DIRT, SAND, OR OTHER MATERIAL THAT WILL INTERFERE WITH THE WELDING OPERATION.
- 7. ALL WATER ON THE DECK OR BETWEEN THE DECK AND BEAMS MUST BE REMOVED PRIOR TO WELDING.
- 8. DECKING MUST REST TIGHTLY ON SUPPORTING MEMBERS.
- 9. WHEN WELDING THROUGH TWO THICKNESSES OF DECK MATERIAL OR WHERE A LAP JOINT IS REQUIRED, BURN A 1-3/4" DIAMETER HOLE THROUGH THE DECK SO THE STUD CAN BE PROPERLY SEATED ON THE BEAM.
- 10. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW BEFORE FABRICATION.
- 11. DECK SHALL BE GALVANIZED (G90) UNLESS NOTED OTHERWISE.
- 12. DECK SHALL HAVE CURRECNT ICC ES REPORT DEMONSTRATING COMPLIANCE WITH THE BUILDING CODE AND CONTRACT DOCUMENTS.
- 13. PROVIDE A MINIMUM END BEARING OF 2 INCHES AT EXTERIOR SUPPORTS AND 4 INCHES AT INTERIOR SUPPORTS.
- 14. ALL DECK SHALL BE INSTALLED IN A DOUBLE SPAN CONDITION MINIMUM. SINGLE SPAN LAYOUT IS NOT PERMITTED. 15. DECK SHALL INCLUDE ANY MISCELLANEOUS CLOSURE PIECES, METAL SCREEDS, ETC. TO MAKE A COMPLETE JOB. MISCELLANEOUS COMPONENTS
- SHALL BE GALVANIZED (G90) AND SHALL MATCH THE THICKNESS OF THE DECK.

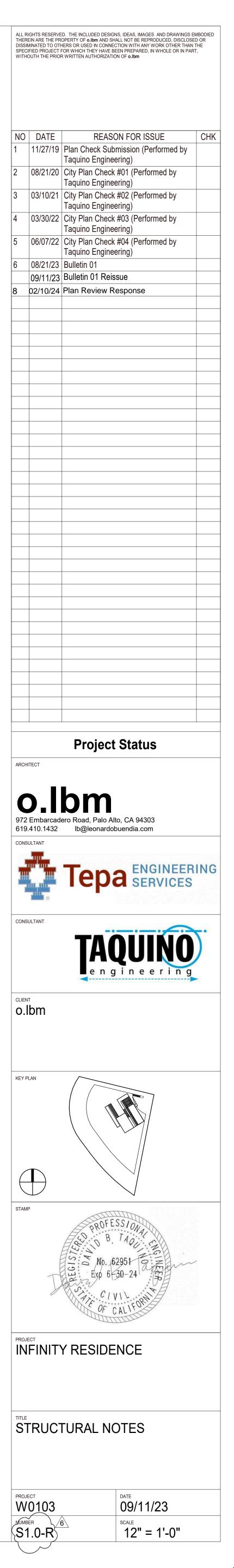
NG	ASTM	

### A500 GRADE C (FY = 50 KSI) A53 GRADE B (FY = 35 KSI)

WORK REQUIRING SPECIAL INSPECTION	ITEM DESCRIPTION AND LOCATION	DESIGN STRENGTH	NAME OF SPECIAL INSPECTOR	PHONE NUMBER OF SPECIAL INSPECTOR
SPECI	AL INSPECTIONS REC	QUIRED BY CBC	SECTION 1705	
<u>*FOR R-3 AND U</u>	OCCUPANCIES ACCE	SSORY TO RESI	DENTIAL OCCUPANCIE	<u>S</u>
ITEMS 1b, 2a (WHEN fc ≤ 3,000	SPECIAL INSPECTION ) psi), 2c, 3a (WHEN F'r			HT IS ≤ 10 FT).
ITEMS	ERVATION IS PERMIT Id, 3a, 3b (WHEN WAL		SPECIAL INSPECTION F FT), 4a AND 4b.	OR:
. STEEL CONSTRUCTION		==-		
A. FIELD WELDING B. STEEL FRAME*	<b>v</b>	E70	JEREMIAH BLETZ	619-354-4554
C. HIGH-STRENGTH BOLTS				
D. COLD-FORMED STEEL FRAMING*				
A. fc > 2,500 psi*	<u> </u>	3000 PSI WALLS	JEREMIAH BLETZ	619-354-4554
B. POST INSTALLED ANCHORS		0000 T OF WITEEO	JEREMIAH BLETZ	619-354-4554
C. STRUCTURAL SLABS*	•			
D. PRE-STRESSED / POST-INSTALLED SLABS				
B. MASONRY CONSTRUCTION		1500 50		040.074.477
A. MASONRY WALLS* B. SITE WALLS OTHER THAN	✓	1500 PSI	JEREMIAH BLETZ	619-354-4554
COUNTY STANDARD PLANS*	$\checkmark$	1500 PSI	JEREMIAH BLETZ	619-354-4554
. WOOD CONSTRUCTION				
A. HIGH-LOAD DIAPHRAGMS*				
B. STRUCTURAL WOOD: NAILING, BOLTS, ANCHORING				
AND OTHER FASTENING OF				
COMPONENTS WITHIN THE LATERAL-FORCE-RESISTING	$\checkmark$		JEREMIAH BLETZ	619-354-4554
SYSTEM WHERE FASTENER				
SPACING OF SHEATHING IS 4 INCHORS OC OR LESS*				
5. FOUNDATIONS A. DRIVEN DEEP FOUNDATIONS				
B. CAST-IN-PLACE DEEP				
FOUNDATIONS				
C. HELICAL PILE FOUNDATIONS				
6. SPRAYED FIRE-RESISTANT MATERIALS				
7. MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS				
B. EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)				
. FIRE-RESISTANT PENETRATIONS				
AND JOINTS IN RISK CATEGORY III OR IV BUILDINGS				
0. SMOKE CONTROL SYSTEMS				
1. INSTALLATION AND ANCHORAGE				
OF MECHANICAL AND ELECTRICAL COMPONENTS				
A. ELECTRICAL EQUIPMENT FOR EMERGENCY STANDY POWER SYSTEMS				
B. OTHER ELECTRICAL EQUIPMENT				
IN STRUCTURES IN SEISMIC DESIGN CATEGORY E OR F				
C. PIPING SYSTEMS OR DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS				
D. VIBRATION ISOLATION SYSTEMS WITH 1/4 INCH OR LESS CLEARANCE REQUIRED BETWEEN SUPPORT FRAME AND RESTRAINT.				
2. STORAGE RACKS				
3. SEISMIC ISOLATION SYSTEMS				

# SPECIAL INSPECTIONS

- 1. SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE, AS SUMMARIZED BELOW, SPECIAL INSPECTION IS NOT A
- SUBSTITUTE FOR INSPECTION BY THE BUILDING OFFICIAL. 2. SPECIAL INSPECTION OF FABRICATED ITEMS: SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE FABRICATOR IS REGISTERED AND APPROVED BY THE
- COUNTY OF SAN DIEGO AND IN ACCORDANCE WITH CBC 1704.2.5.1. 3. THE CONTRACTOR SHALL HIRE ALL SPECIAL INSPECTORS AND TESTING
- AGENCIES TO PERFORM SPECIAL INSPECTION AND TESTING WORK. 4. THE SPECIAL INSPECTOR MUST BE QUALIFIED AND CERTIFIED BY THE COUNTY OF SAN DIEGO TO PERFORM THE TYPES OF INSPECTION SPECIFIED, EXCEPTIONS A. SOILS INSPECTION BY THE SOILS ENGINEER OF RECORD
- B. WHEN WAIVED BY THE BUILDING OFFICIAL 5. SPECIALLY INSPECTED WORK THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE COUNTY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.
- 6. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SUBMIT RECORDS OF INSPECTION TO THE OWN AND AUTHORITY HAVING JURISDICTION.
- 7. A CERTIFICATE OF SATISFACTORY COMPLETION OF WORK REQUIRING SPECIAL INSPECTION MUCH BE COMPLETED AND SUBMITTED TO THE FIELD INSPECTION
- DIVISION. 8. CONCRETE CONSTRUCTION (PERIODIC INSPECTION)
- A. REINFORCING STEEL B. ANCHOR BOLTS CONCRETE MIX DESIGN
- D. FORMWORK 9. CMU CONSTRUCTION (PERIODIC INSPECTION)
- A. REINFORCING STEEL B. ANCHOR BOLTS
- 10. WOOD CONSTRUCTION (PERIODIC INSPECTION) A. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF WOOD SHEARWALLS, DIAPHRAGMS, CHORDS, DRAGS, STRAPS, AND HOLDDOWNS.
- 11. SOILS (PERIODIC INSPECTION, UNO) A. VERIFICATION OF BEARING MATERIAL
- B. VERIFICATION EXCAVATIONS ARE OF PROPER DEPTH AND REACH PROPER MATERIAL CLASSIFICATION AND TESTING OF COMPACTED FILL . VERIFICATION OF PROPER FILL MATERIALS, DENSITIES, AND LIFT
- THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL (CONTINUOUS INSPECTION) . SUBGRADE AND VERIFICATION THAT SITE HAS BEEN PROPERLY PREPARED. F. RETAINING WALL BACKFILL
- 12. STEEL CONSTRUCTION A. FIELD WELDING



## **ABBREVIATIONS**

@ AB ABV AC A/C ADDL ALT ATR APPROX ARCH B/ BF BLDG BLK BLKD BLW BM ΒN BOF BRG BTM, (B) BTWN C= CIP CIRC CJ CL CLG CLR CNTR CMU COL CONC CONN CONST CONT CSK CY DBL DEPT DIA, Ø DIR DO DOAS DWG DWL (E) EA EF EJ EL ELEC ELEV EMBED EN EQ EQUIP ESR ES EW EXIST EXP EXT FDN FF FIN FLR FLNG FN FO FOC FOM FOS FP FRMG FS FT FTG FV GA GALV GL GLB GLC GRD GYP HD HDG HDR HGR ΗK HORIZ, (H) HR HSS ΗT ICC ID IJ IN INT JST JT LB LG LLH LLV LONG LTWT MAS MATL MAX

AND AT ANCHOR BOLT ABOVE ASPHALT CONCRETE AIR CONDITIONG ADDITIONAL ALTERNATE ALL THREAD ROD APPROXIMATE ARCHITECT(URAL) BOTTOM OF BRACED FRAME BUILDING BLOCK(ING) BLOCKED BELOW BEAM BOUNDARY NAILING BOTTOM OF FOOTING BEARING BOTTOM BETWEEN CAMBER CAST IN PLACE CIRCULAR CONTROL JOINT CENTER LINE CEILING CLEAR(ANCE) CENTER(ED) CONCRETE MASONRY UNIT COLUMN CONCRETE CONNECT(ION)(OR) CONSTRUCT(ION) CONTINUOUS COUNTERSINK CUBIC YARD(S) PENNY(NAILS) DOUBLE DEPARTMENT DIAMETER DIRECTION DITTO DEDICATED OUTSIDE AIR SYSTEM DRAWING(S) DOWEL(S) EXISTING EACH EACH FACE EXPANSION JOINT ELEVATION ELECTRICAL ELEVATOR EMBED(ED)(MENT) EDGE NAILING EQUAL EQUIPMENT EVALUATION SERVICE REPORT EACH SIDE EACH WAY EXISTING EXPANSION EXTERIOR FOUNDATION FINISHED FLOOR FINISH(ED) FLOOR FLANGE FIELD NAILING FACE OF FACE OF CONCRETE FACE OF MASONRY FACE OF STUD FULL PENETRATION FRAMING FAR SIDE FOOT(FEET) FOOTING FIELD VERIFY GAUGE(GAGE) GALVANIZE(D) GLUE LAMINATE GLUE LAMINATED BEAM GLUE LAMINATED COLUMN GRADE GYPSUM HOLDOWN HOT DIPPED GALVANIZED HEADER HANGER HOOK HORIZONTAL HOUR HOLLOW STRUCTURAL SECTION HEIGHT INTERNATIONAL CODE COUNCIL INSIDE DIAMETER ISOLATION JOINT INCH(ES) INTERIOR JOIST JOINT LONG (LENGTH) POUND(S) LONG LONG LEG HORIZONTAL LONG LEG VERTICAL LONGITUDINAL LIGHTWEIGHT MASONRY

MATERIAL

MAXIMUM

MACHINE BOLT

MECHANICAL

MEZZANINE

MB

MECH

MEZZ

MIN MISC MLLW MTL (N) N/A NFPA NIC NLG NO, (#) NS NTS OC OD OH OPNG OPP PC P/C PCC ΡL PLYWD PLF PNL P/S PSF PSI PT RBS RCP REF REINF REQD RF RO RR RTU RW RWD SC S CRIT SCHED SDI SDS SECT SHT SHTG SIM SMS SOG SPCG SPEC SPN SQ STD STGR STIFF STIR STL STRUCT SYMM T/, TO T&B T&G TC ΤG THK THRD ΤN TOB, T/BM TOC, T/CONC TOF, T/FTG TOP TOS, T/STL TOT TOW TPN TRANS TS TSG TYP UNBLKD UNO VERT, (V) VRF W W/ WD WHS W/O WP WΤ WTS WWF X-STG XX-STG

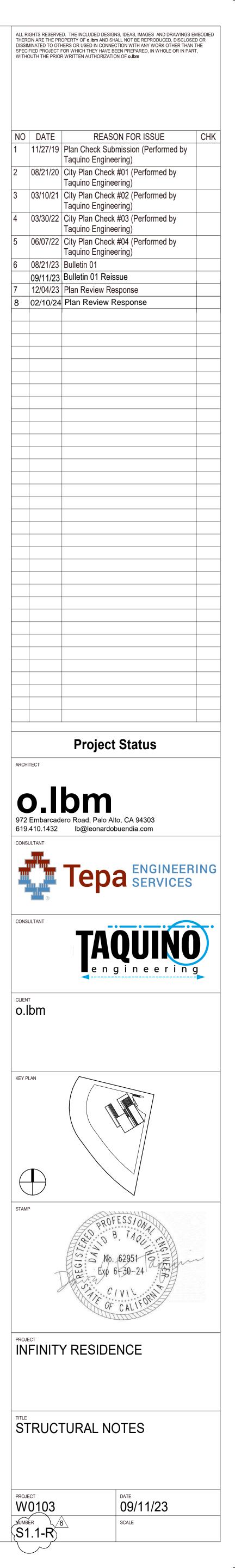
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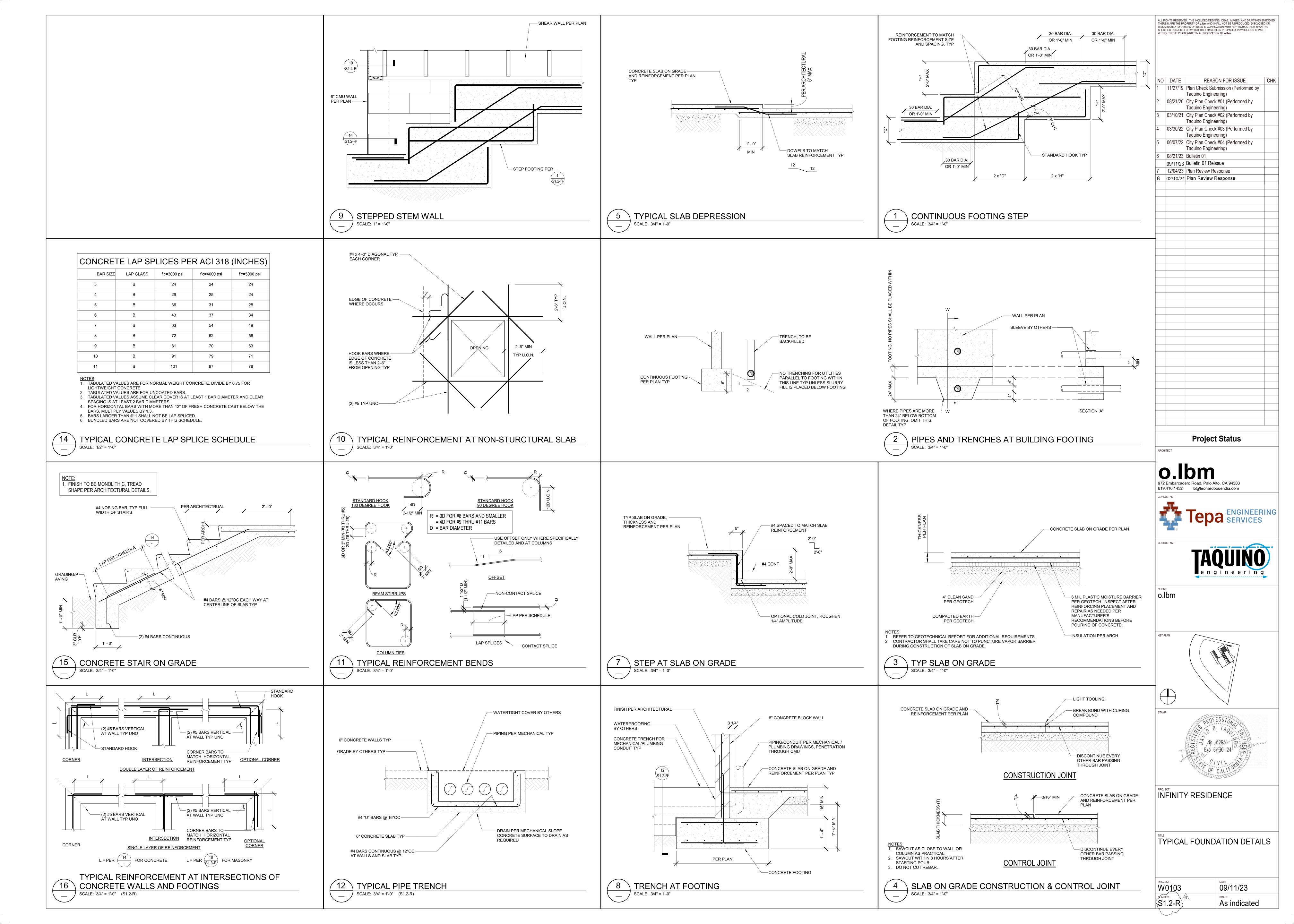
MANUFACTURER MINIMUM MISCELLANEOUS MEAN LOWER LOW WATER METAL NEW NOT APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT NAILING NUMBER NEAR SIDE NOT TO SCALE ON CENTER OUTSIDE DIAMETER OPPOSITE HAND OPENING OPPOSITE PIECE PRECAST PRECAST CONCRETE PLATE PROPERTY LINE PLYWOOD POUNDS PER LINEAR FOOT PANEL PRESTRESS(ED) POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED RADIUS REDUCED BEAM SECTION REINF CONC PIPE REFERENCE REINFORCE(ING)(MENT) REQUIRED ROOF ROUGH OPENING ROOF RAFTER ROOF TOP UNIT **RETAINING WALL** REDWOOD SHEAR CONNECTOR SLIP CRITICAL SCHEDULE STEEL DECK INSTITUTE SELF DRILLING SCREW SECTION SHEET SHEATHING SIMILAR SHEET METAL SCREW SLAB ON GRADE SPACING SPECIFICATION(S) SILL PLATE NAILING SQUARE STANDARD STAGGER(ED) STIFFEN(ER) STIRRUP(S) STEEL STRUCTURAL SYMMETRICAL TOP OF TOP & BOTTOM TONGUE & GROOVE TOP OF CURB TAPERED GIRDER THICK(NESS) THREAD(ED) TOE NAIL(ING) TOP OF BEAM TOP OF CONCRETE TOP OF FOOTING TOP, T/PARAPET TOP OF STEEL TOTAL TOP OF WALL TOP PLATE NAILING TRANSVERSE TUBING (TUBE STEEL) TAPERED STEEL GIRDER TYPICAL UNBLOCKED UNLESS OTHERWISE NOTED VERTICAL VARIABLE REFRIGERANT FLOW WIDTH (WIDE) WITH WOOD

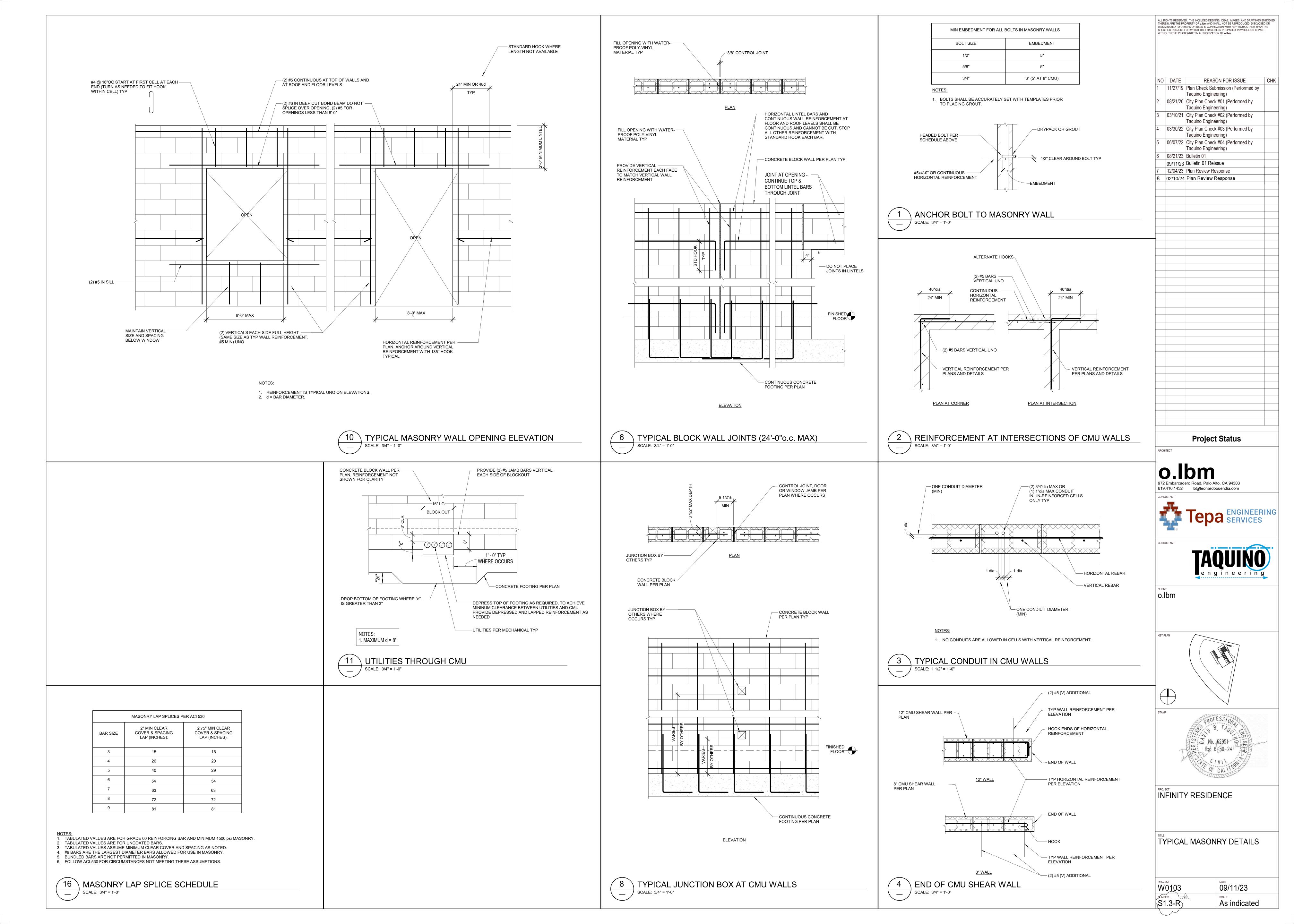
WELDED HEADED STUD WITHOUT WORK POINT WEIGHT WELDED THREADED STUD WELDED WIRE FABRIC EXTRA STRONG

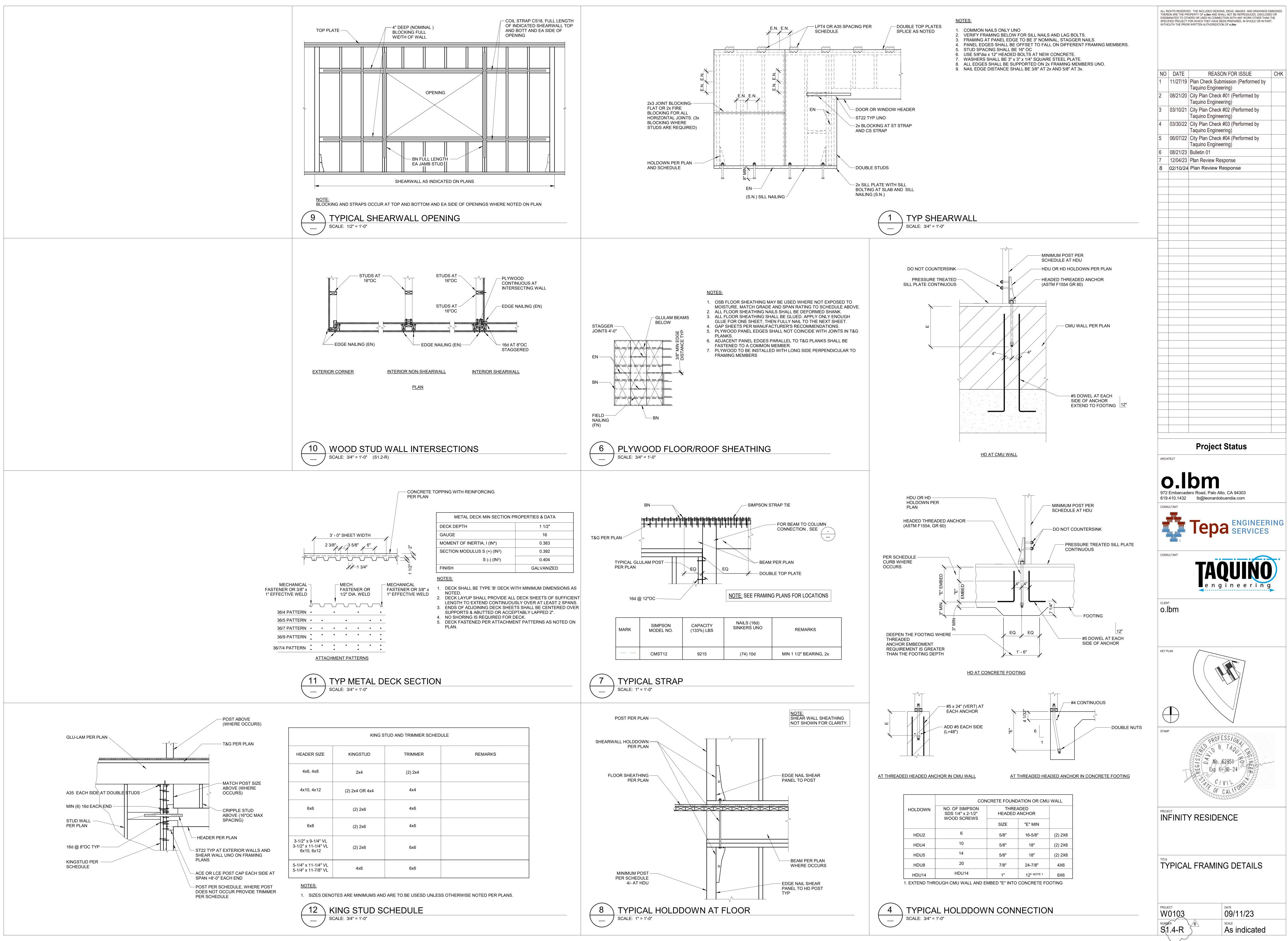
DOUBLE EXTRA STRONG

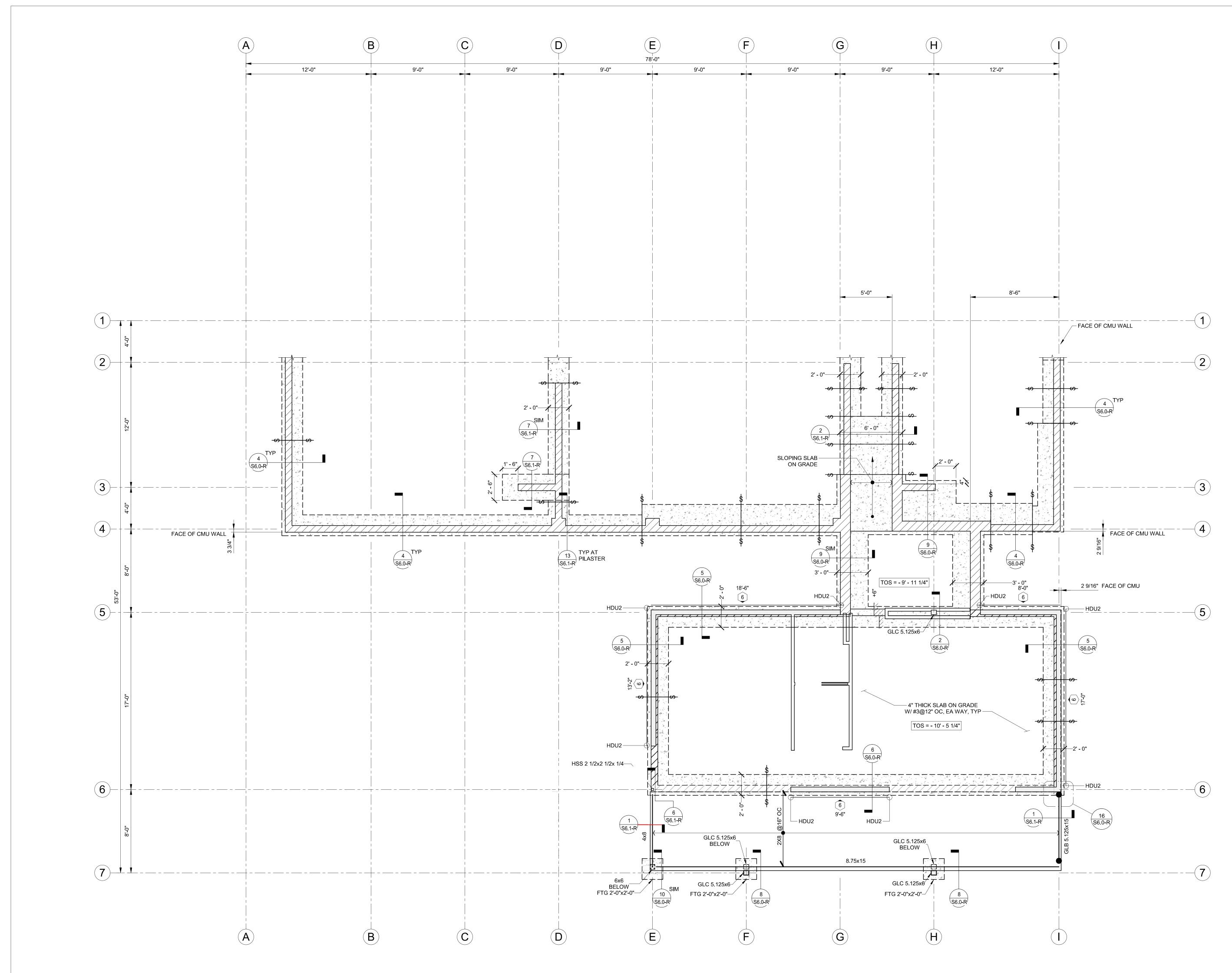
TABLE 2304.9.1 - FASTEN	IING SCHEDULE 2016 CALIFORNIA BI	UILDING CODE	TABLE 2304.9.1 - FASTEN	ING SCHEDULE 2016 CALIFORNIA BUILDING CODE
CONNECTION	FASTENING	LOCATION	CONNECTION	FASTENING LOCATION
1. JOIST TO SILL OR GIRDER	(3) 8d COMMON (2 1/2"x0.131") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL	31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS 6d <sup>c.1</sup> 2 3/8"x0.113" NAIL <sup>n</sup> 1 3/4" 16 GAGE <sup>o</sup>
2. BRIDGING TO JOIST	(2) 8d COMMON (2 1/2"x0.131") (2) 3"x0.131" NAILS (2) 3" 14 GAGE STAPLES	TOENAIL: EACH END		19/32" TO 3/4" 8d <sup>d</sup> OR 6d <sup>e</sup> 2 3/8"x0.113" NAIL <sup>p</sup> 2" 16 GAGE <sup>p</sup>
<ol> <li>3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST</li> <li>4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST</li> </ol>	(2) 8d COMMON (2 1/2"x0.131") (3) 8d COMMON (2 1/2"x0.131")	FACE NAIL FACE NAIL		7/8" TO 1" 8d <sup>c</sup> 1 1/8" TO 1 1/4" 10d <sup>d</sup> OR 8d <sup>d</sup>
<ol> <li>2" SUBFLOOR TO JOIST OR GIRDER</li> <li>SOLE PLATE TO JOIST OR BLOCKING</li> </ol>	(2) 16d COMMON (3 1/2"x0.162") 16d (3 1/2"x0.135") AT 16" OC 3"x0.131" NAILS AT 8" OC 3" 14 GAGE STAPLES AT 12" OC	BLIND AND FACE NAIL TYPICAL FACE NAIL	SINGLE FLOOR (COMBINATION SUBFLOOR- UNDERLAYMENT TO FRAMING	3/4" AND LESS 6d <sup>e</sup> 7/8" TO 1" 8d <sup>e</sup> 1 1/8" TO 1 1/4" 10d <sup>d</sup> OR 8d <sup>d</sup>
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	(3) 16d (3 1/2"x0.135") AT 16" OC (4) 3"x0.131" NAILS AT 16" OC (4) 3" 14 GAGE STAPLES PER 16"	BRACED WALL PANEL	32. PANEL SIDING (TO FRAMING)	1/2" OR LESS 6d <sup>f</sup> 5/8" 8d <sup>f</sup>
7. TOP PLATE TO STUD	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	END NAIL	33. FIBERBOARD SHEATHINGg	NO. 11 GAGE ROOFING NAIL <sup>h</sup> 1/2" 6d COMMON NAIL (2"x0.113") NO. 16 GAGE STAPLE <sup>i</sup>
8. STUD TO SOLE PLATE	(4) 8d COMMON (2 1/2"x0.131") (4) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL		NO. 11 GAGE ROOFING NAIL <sup>h</sup> 25/32"       8d COMMON NAIL (2 1/2"x0.131")         NO. 16 GAGE STAPLE <sup>i</sup>
	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	END NAIL	34. INTERIOR PANELING	1/4"     4d <sup>i</sup> 3/8"     6d <sup>k</sup>
9. TOP PLATE TO STUD	16d (3 1/2"x0.135") AT 24" OC 3"x0.131" NAILS AT 8" OC 3" 14 GAGE STAPLES AT 8" OC	FACE NAIL		E USED EXCEPT WHERE OTHERWISE STATED. DGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND
10. DOUBLE TOP PLATES	16d (3 1/2"x0.135") AT 16" OC 3"x0.131" NAILS AT 12" OC 3" 14 GAGE STAPLES AT 12" OC	TYPICAL FACE NAIL		ALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE 8d-2 1/2"x0.131";10d-3"x0.148").
	(8) 16d COMMON (3 1/2"x0.162") (12) 3"x0.131" NAILS (12) 3" 14 GAGE STAPLES	LAP SPLICE	<ul> <li>e. DEFORMED SHANK (6d-2"x0.113"; 8d-2 1/2"x0.13"</li> <li>f. CORROSION-RESISTANT SIDING (6d-1 7/8"x0.10</li> <li>g. FASTENERS SPACED 3 INCHES ON CENTER AT</li> </ul>	
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	(3) 8d COMMON (2 1/2"x0.131") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL	AND 12 INCHES ON CENTER AT INTERMEDIATE h. CORROSION-RESISTANT ROOFING NAILS WITH SHEATHING AND 1 3/4-INCH LENGTH FOR 25/32 i. CORROSION-RESISTANT STAPLES WITH NOMIN	E SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. 17/16-INCH-DIAMETER HEAD AND 1 1/2-INCH LENGTH FOR 1/2-INCH 2-INCH SHEATHING. NAL 7/16-INCH CROWN AND 11/8-INCH LENGTH FOR 1/2-INCH
12. RIM JOIST TO TOP PLATE	8d (2 1/2"x0.131") AT 6" OC 3"x0.131" NAILS AT 6" OC 3" 14 GAGE STAPLES AT 6" OC	TOENAIL	SHEATHING AND 1 1/2-INCH LENGTH FOR 25/32 STRENGTH AXIS IN THE LONG DIRECTION OF T j. CASING (1 1/2"x0.080") OR FINISH (1 1/2"x0.072") INTERMEDIATE SUPPORTS.	P-INCH SHEATHING. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF THE PANEL, UNLESS OTHERWISE MARKED). NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT
13. TOP PLATES, LAPS AND INTERSECTIONS	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL	INTERMEDIATE SUPPORTS. I. FOR ROOF SHEATHING APPLICATIONS, 8d NAIL STRUCTURAL PANELS.	FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT LS (2 1/2"x0.113") ARE THE MINIMUM REQUIRED FOR WOOD
<ul><li>14. CONTINUOUS HEADER, TWO PIECES</li><li>15. CEILING JOISTS TO PLATE</li></ul>	16d COMMON (3 1/2"x0.162") (3) 8d COMMON (2 1/2"x0.131") (5) 3"x0.131" NAILS (5) 3" 14 GAGE STAPLES	16" OC ALONG EDGE TOENAIL	INTERMEDIATE SUPPORTS. o. FASTENERS SPACED 4 INCHES ON CENTER AT	OTH OF 7/16-INCH. NERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS FOR SUBFLOOR TER AT EDGES, 6 INCHES AT INTERMEDIATE SUPPORTS FOR
<ul> <li>16. CONTINUOUS HEADER TO STUD</li> <li>17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)</li> </ul>	<ul> <li>(4) 8d COMMON (2 1/2"x0.131")</li> <li>(3) 16d COMMON (3 1/2"x0.162") MINIMUM, (TABLE 2308.10.4.1)</li> <li>(4) 3"x0.131" NAILS</li> <li>(4) 3" 14 GAGE STAPLES</li> </ul>	TOENAIL FACE NAIL	p. FASTENERS SPACED 4 INCHES ON CENTER AT	EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.
18. CEILING JOISTS TO PARALLEL RAFTERS (SEE SECTION 2308.10.4.1, TABLE 2308.10.4.1)	(3) 16d COMMON (3 1/2"x0.162") MINIMUM, (TABLE 2308.10.4.1) (4) 3"x0.131" NAILS (4) 3" 14 GAGE STAPLES	FACE NAIL		
19. RAFTER TO PLATE (SEE SECTION 2308.10.1, TABLE 2308.10.1)	(3) 8d COMMON (2 1/2"x0.131") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL		
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	(2) 8d COMMON (2 1/2"x0.131") (2) 3"x0.131" NAILS (2) 3" 14 GAGE STAPLES	FACE NAIL		
21. 1"x8" SHEATHING TO EACH BEARING 22. WIDER THAN 1"x8" SHEATHING TO EA BEARING	(3) 8d COMMON (2 1/2"x0.131") (3) 8d COMMON (2 1/2"x0.131")	FACE NAIL FACE NAIL		
23. BUILT-UP CORNER STUDS	16d COMMON (2 1/2 x0.162") 3"x0.131" NAILS 3" 14 GAGE STAPLES	24" OC 16" OC 16" OC		
24. BUILT-UP GIRDERS AND BEAMS	20d (4"x0.192") AT 32" OC 3"x0.131" NAILS AT 24" OC 3" 14 GAGE STAPLES AT 24" OC	FACE NAIL AT TOP AND BOTTOM STAGGERD ON OPPOSITE SIDES		
	(2) 20d (4"x0.192") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL AT ENDS AND AT EACH SPLICE		
25. 2" PLANKS 26. COLLAR TIE TO RAFTER	16d COMMON (3 1/2"x0.162") (3) 10d COMMON (3"x0.148") (4) 3"x0.131" NAILS (4) 3" 14 GAGE STAPLES	AT EACH BEARING FACE NAIL		
27. JACK RAFTER TO HIP	(3) 10d COMMON (3"x0.148") (4) 3"x0.131" NAILS (4) 3" 14 GAGE STAPLES	TOENAIL		
	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL		
28. ROOF RAFTER TO 2x RIDGE BEAM/BOARD	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	TOENAIL		
	(2) 16d COMMON (3 1/2"x0.162") (3) 3"x0.131" NAILS (3) 3" 14 GAGE STAPLES	FACE NAIL		
29. JOIST TO BAND JOIST	(3) 16d COMMON (3 1/2"x0.162") (4) 3"x0.131" NAILS (4) 3" 14 GAGE STAPLES	FACE NAIL		
30. LEDGER STRIP	(3) 16d COMMON (3 1/2"x0.162") (4) 3"x0.131" NAILS (4) 3" 14 GAGE STAPLES	FACE NAIL		









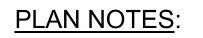


### POOL LEVEL FOUNDATION & FRAMING PLAN 1/4" = 1'-0"

MARK SHEATHING GRADE / MATERIAL		GRADE / MATERIAL	NAIL SIZE	EN (EDGE NAIL)	F.N. (FIELD NAILING)	TOP PLATE NAIL (TPN) SPACING SIMPSON	SILL BOLTS 5/8"dia ANCHORS	SILL NAILING (SPN) SPACING SIMPSON SDWS22	V <sub>asd</sub> SHEAR	COMMENTS	Ma	odel		Dimen: (in:		nsions n.)		Fasteners (in.)	Minimum Wood	Allowable Tension Loads (160)			
				SPACING (	SPACING	SDWS22600 (L= 6" UNO)		(L=8" UNO)	μ			N	No.	Ga. W	Н	во	L SO		Wood Fasteners	Member Size (in.)	DF/SP	SPF/HF	D
	15/32"	STRUCT1 (24/0)	10d	6"	12"	16" OC	48" OC	16" OC	340	2x SILL								(in.)					
	15/32"		104	4"	12"	12" OC	32" OC	12" OC	<b>F10</b>	2x SILL		HDU2-S	SDS2.5	14 3	811/16	31⁄4 1	5/16 13/8	5/8	(6) 1⁄4 x 21⁄2 SDS	3 x 31⁄2	3,075	2,215	
	15/32	STRUCT1 (24/0)	10d	4	12	12 00	32 00	12 00	510			HDU4-S	SDS2.5	14 3	1015/16	31/4 1	5/16 13/8	5/8	(10) 1⁄4 x 21⁄2 SDS	3 x 31⁄2	4,565	3,285	
	15/32"	STRUCT1 (24/0)	10d	3"	12"	8" OC	24" OC	8" OC	665	2x SILL		HDU5-S	SDS2.5	14 3	133/16	31/4 1	5/16 13/8	5/8	(14) 1/4 x 21/2 SDS	3 x 31/2	5,645	4,340	
	15/32"	STRUCT1 (24/0)	10d	2"	12"	8" OC	16" OC	8" OC (L=10")	870	2x SILL										3 x 31/2	6,765	5,820	
												HDU8-S	SDS2.5	10 3	16%	3½ 1	3/8 11/2	7/8	(20) 1⁄4 x 21⁄2 SDS	31/2 x 31/2	6,970	5,995	
· .																				31/2 x 41/2	7,870	6,580	
. 2	ALL NAILING AT EACH	I SILL PATE AT MULTIPL	E SILL PLATES										00005	10 0	0.011				(00) (1) 011 050	31/2 x 51/2	9,535	8,030	
												HDU11-	-SDS2.5	10 3	221/4	31/2 1	3/8 11/2	1	(30) 1⁄4 x 21⁄2 SDS	31/2 x 71/4	11,175	9,610	
																				31/2 x 51/2	10,770	9,260	
							$\frown$					HDU14-	-SDS2.5	7 3	2511/16	31/2 1	9/16 19/16	1	(36) ¼ x 2½ SDS	31/2 x 71/4	14,390	12,375	
							(SW) S	HEAR WALL SCI												51/2 x 51/2	11 115	12,425	T



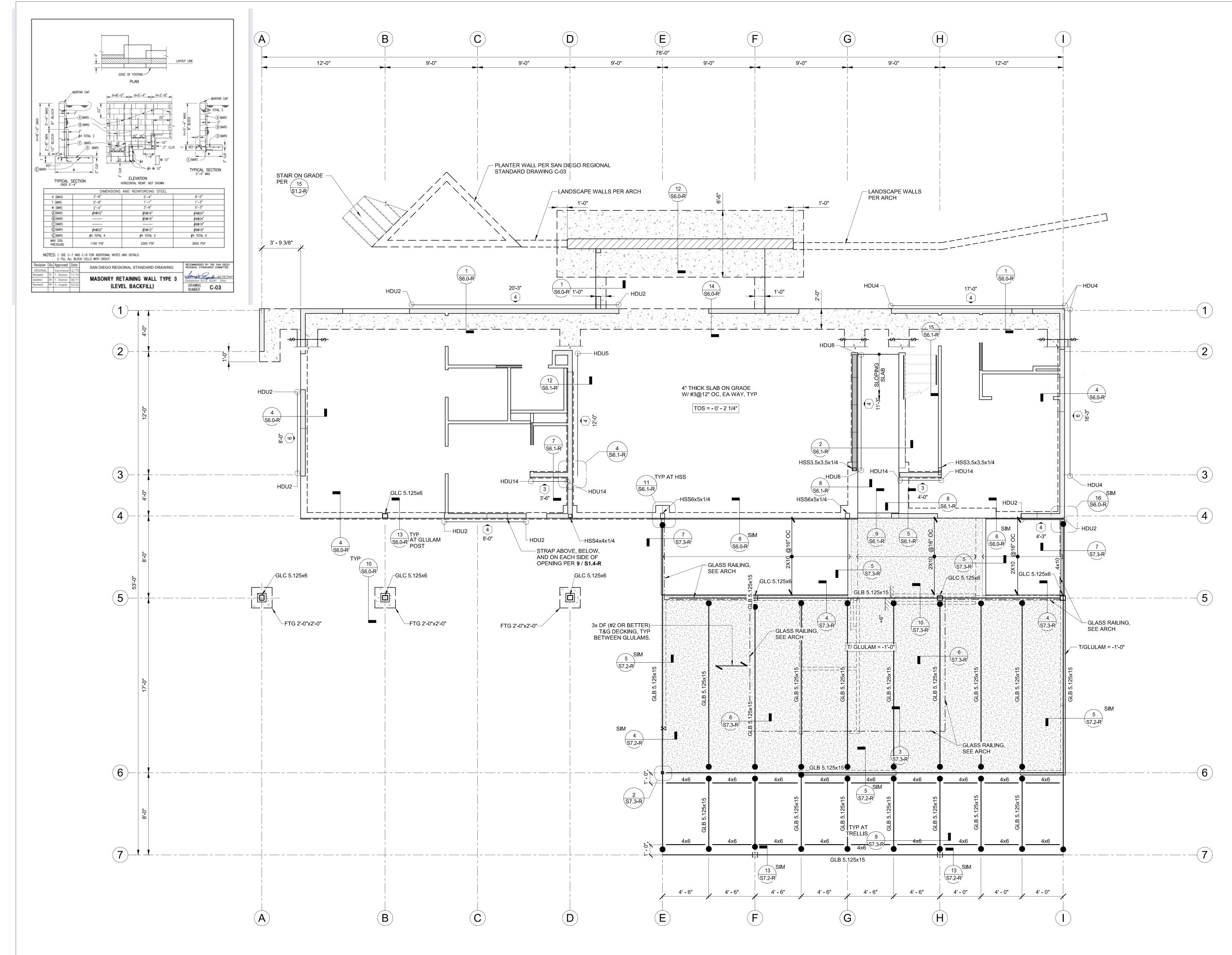
١	SHEAR WALL SCHEDUL
)	SCALE: 3/4" = 1'-0"



- 1. SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
- 2. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK, SEE ARCHITECTURAL DRAWINGS AS REQUIRED. 3. FOR LOCATION OF CURBS, SLAB DEPRESSIONS, SLAB
- SLOPES, FLOOR DRAINS, ETC., COORDINATE WITH ARCHITECTURAL DRAWINGS. 4. ALL INTERIOR WOOD WALLS SHALL BE 2x4, ALL EXTERIOR WOOD WALLS SHALL BE 2x6, UNO. EXCEPTION: WHERE
- INTERIOR WALL BELOW EXTERIOR WALL, INTERIOR WALL SHALL BE 2x6 TO MATCH WALL ABOVE.5. 6x6 WOOD COLUMNS TO BE INSTALLED IN WALLS UNDER END
- OF ALL GLULAM BEAMS. 6. FOR FOOTING DIMENSIONS NOT SHOWN ON PLAN, SEE
- FOR FOOTING DIMENSIONS NOT SHOWN ON FLAN, SEE SCHEDULE 4 / S6.0-R
   SHEARWALL LENGTHS SHOWN ARE TO ENSURE END COLUMNS ALIGN WITH WALL BELOW. NO OFFSET IN STACKED WALLS IS ALLOWED. NOTIFY THE ENGINEER OF RECORD
- IMMEDIATELY IF ANY DISCREPANCIES FOUND. 8. PLYWOOD TO BE INSTALLED ON ALL EXTERIOR WALLS AND
- ABOVE AND BELOW ALL OPENINGS PER SHEARWALL 6, UNO. 9. ELEVATIONS PROVIDED ARE BASED ON FF 0'-0" AT LOWER LEVEL PER ARCH

x x'-xx"	DENOTES SHEAR WALL PER SCHEDULE (SW) W/ MIN SHEARWALL LENGTH, "X-XX". (S2.1-R)
<del>. ഗ ഗ</del>	DENOTES STEPPED FOOTING PER
	DENOTES MASONRY WALL
	DENOTES 2x6 STUD WALL
	DENOTES 2x4 STUD WALL
⊖— HDU#	DENOTES HOLD DOWN PER
<b>⊠</b> ∕~#x#	POST OF TYPE AND SIZE INDICATED
[]	DENOTES POST BELOW
	DENOTES WALL BELOW
	DENOTES CONCRETE PAD FOUNDATION
	DENOTES CONTINUOUS CONCRETE FOOTING
	MASONRY PILASTER
$\sim$	SPAN DIRECTION
$\leftarrow \longrightarrow$	FRAMING EXTENTS
• •	SIMPSON CBH 2.37X9.75 CONNECTION PER 3/S7.2-R FOR WOOD TO WOOD, 14/S7.2-R FOR WOOD TO STEEL, 16/S6.0-R FOR WOOD TO CMU
<b>~~~</b>	GLULAM BEAM SPLICE

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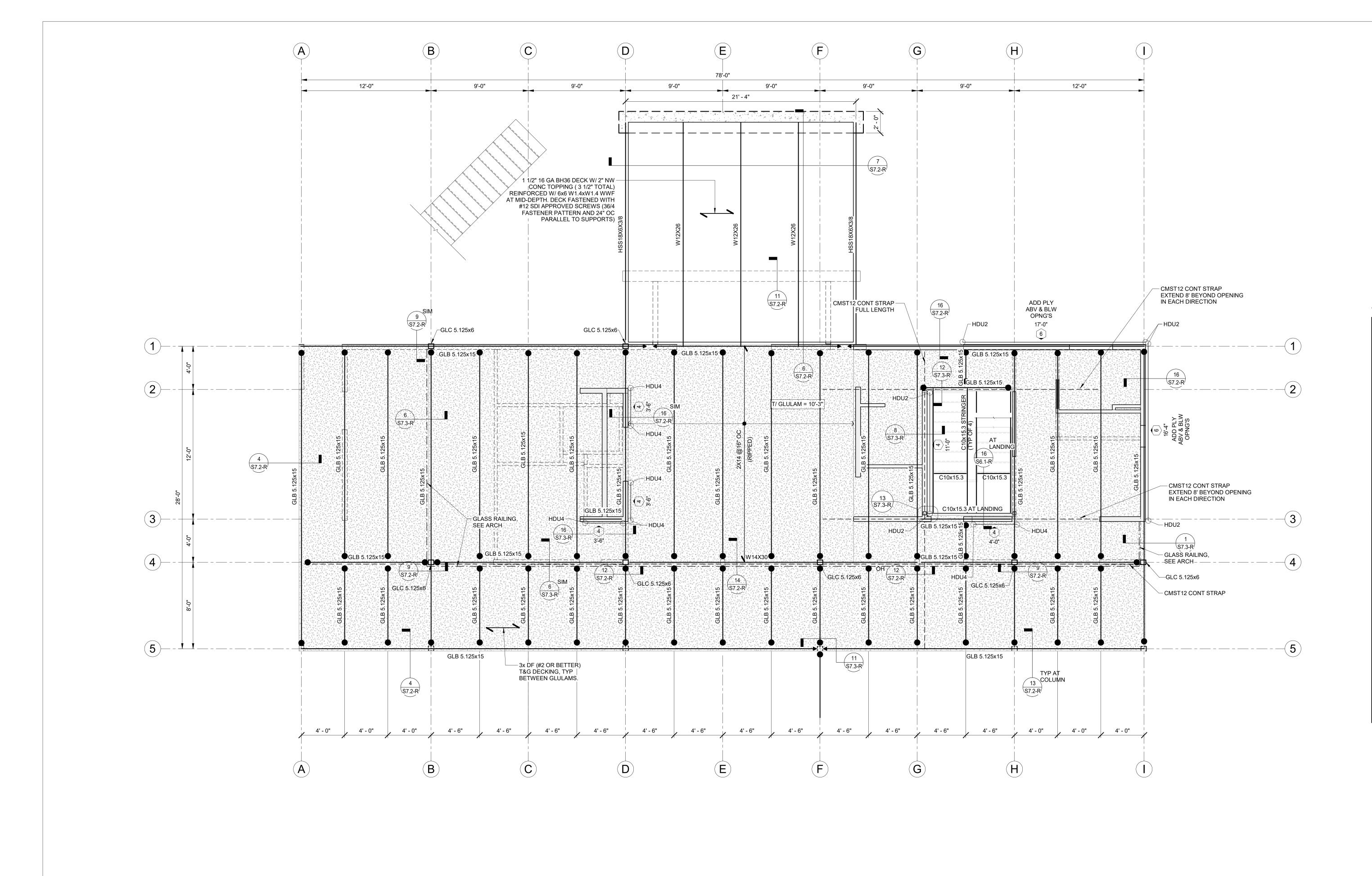
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- 5. 6x6 POST TO BE LOCATED BELOW GLULAM BEAMS IN WALL PER 14 S6.1-R
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## <u>LEGEND</u>

x x'-xx"	DENOTES SHEAR WALL PER SCHEDULE (SW) W/ MIN SHEARWALL LENGTH, "X-XX". (S2.1-R)
<del>.                                    </del>	DENOTES STEPPED FOOTING PER
	DENOTES MASONRY WALL
	DENOTES 2x6 STUD WALL
	DENOTES 2x4 STUD WALL
⊖— HDU#	DENOTES HOLD DOWN PER
<b>⊠</b> ≁-#x#	POST OF TYPE AND SIZE INDICATED
[]	DENOTES POST BELOW
	DENOTES WALL BELOW
	DENOTES CONCRETE PAD FOUNDATION
	DENOTES CONTINUOUS CONCRETE FOOTING
-7	MASONRY PILASTER
$\sim$	SPAN DIRECTION
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	GLULAM BEAM SPLICE
	DIAPHRAGM: 1/2" APA RATED PLYWOOD 48/24 w/ 10d SCREW SHANK NAILS @ 6" BN, 6" EN, 12" FN, GLUED OVER 3x DF T&G DECKING W/ 1/4" DIA SIMPSON SDSx6" @ 16" OC TO GLULAM BEAMS

THER DISSII SPEC	EIN ARE THE PRI MINATED TO OTH IFIED PROJECT F	D. THE INCLUDED DESIGNS, IDEAS, IMAGES AND DRAWINGS EF OPERTY OF <b>o.lbm</b> and shall not be reproduced, disclose HERS or Used in connection with any work other than FOR WHICH THEY HAVE BEEN PREPARED, IN WHOLE OR IN PART R WRITTEN AUTHORIZATION OF <b>o.lbm</b>	D OR THE
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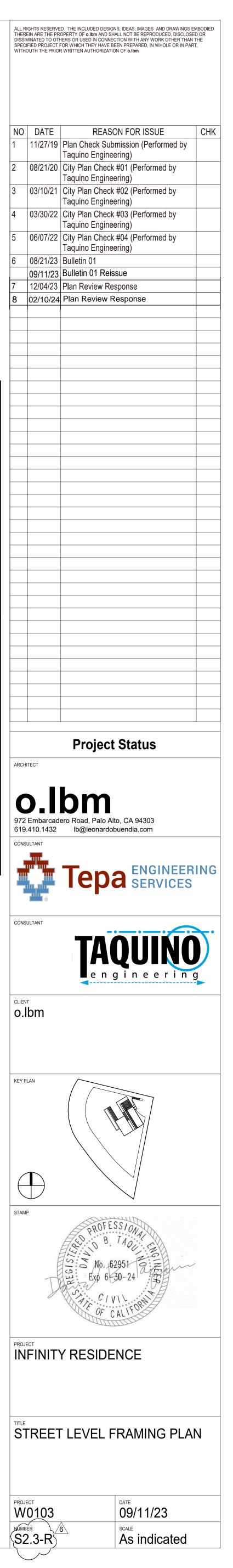
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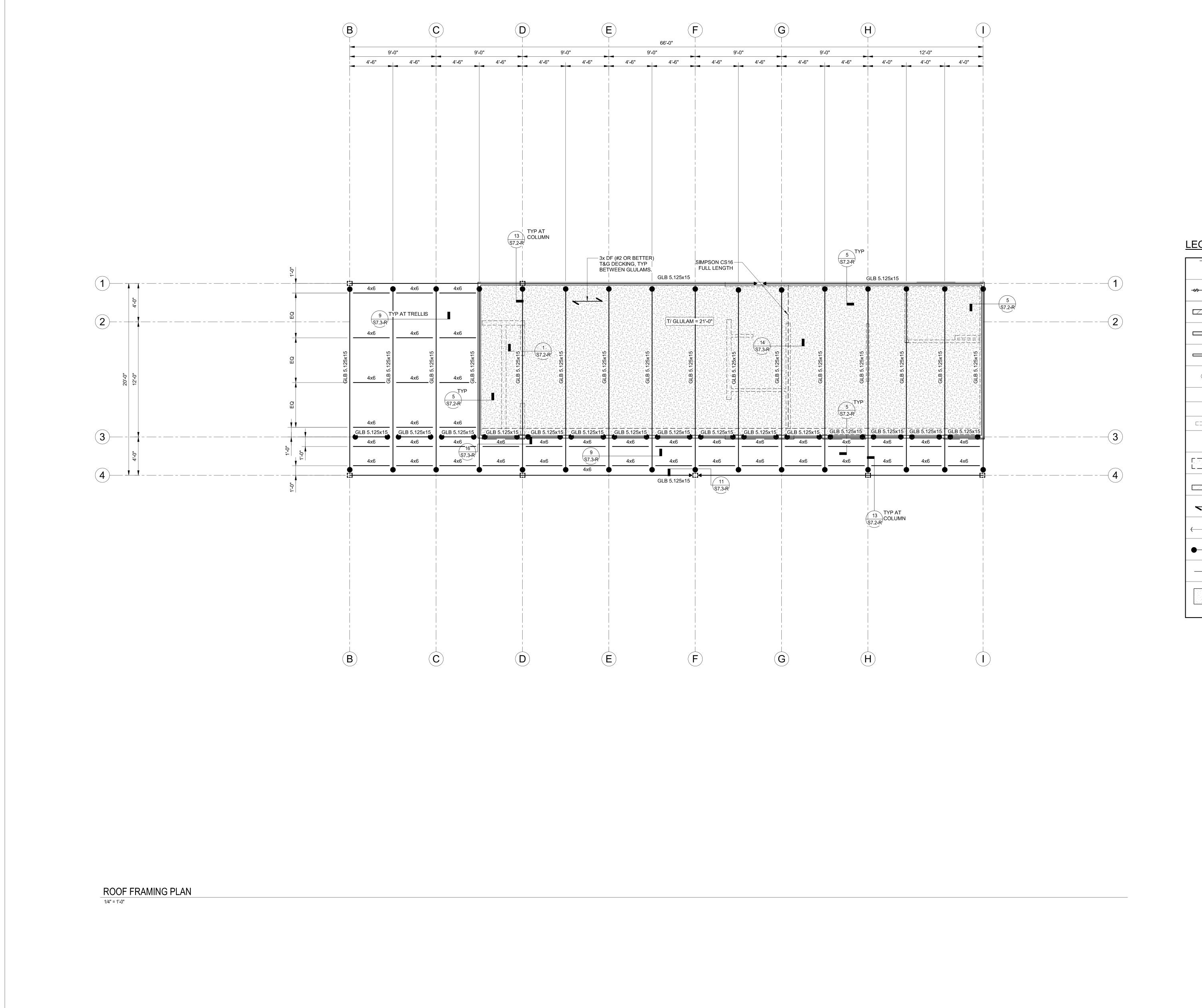
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## <u>LEGEND</u>

x x'-xx"	DENOTES SHEAR WALL PER SCHEDULE (SW) W/ MIN SHEARWALL LENGTH, "X-XX". (S2.1-R)
- <del>ഗ ഗ</del>	DENOTES STEPPED FOOTING PER
	DENOTES MASONRY WALL
	DENOTES 2x6 STUD WALL
	DENOTES 2x4 STUD WALL
⊖— HDU#	DENOTES HOLD DOWN PER
<b>⊠</b>	POST OF TYPE AND SIZE INDICATED
53	DENOTES POST BELOW
	DENOTES WALL BELOW
	DENOTES CONCRETE PAD FOUNDATION
	DENOTES CONTINUOUS CONCRETE FOOTING
	MASONRY PILASTER
$\sim$	SPAN DIRECTION
$\longleftrightarrow$	FRAMING EXTENTS
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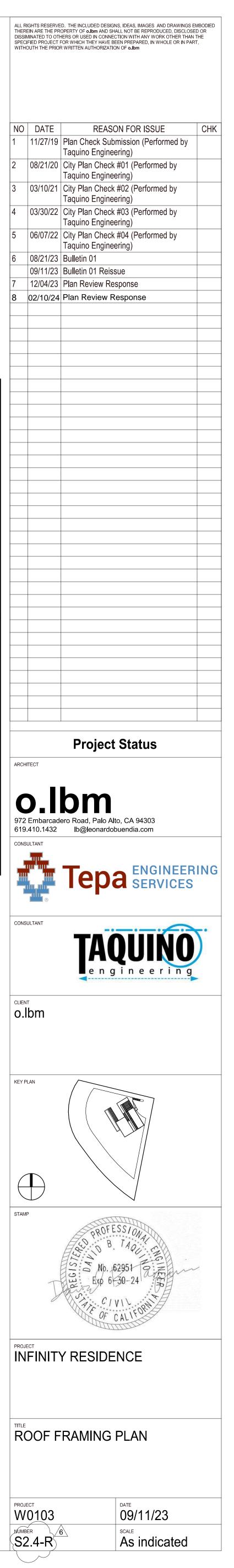


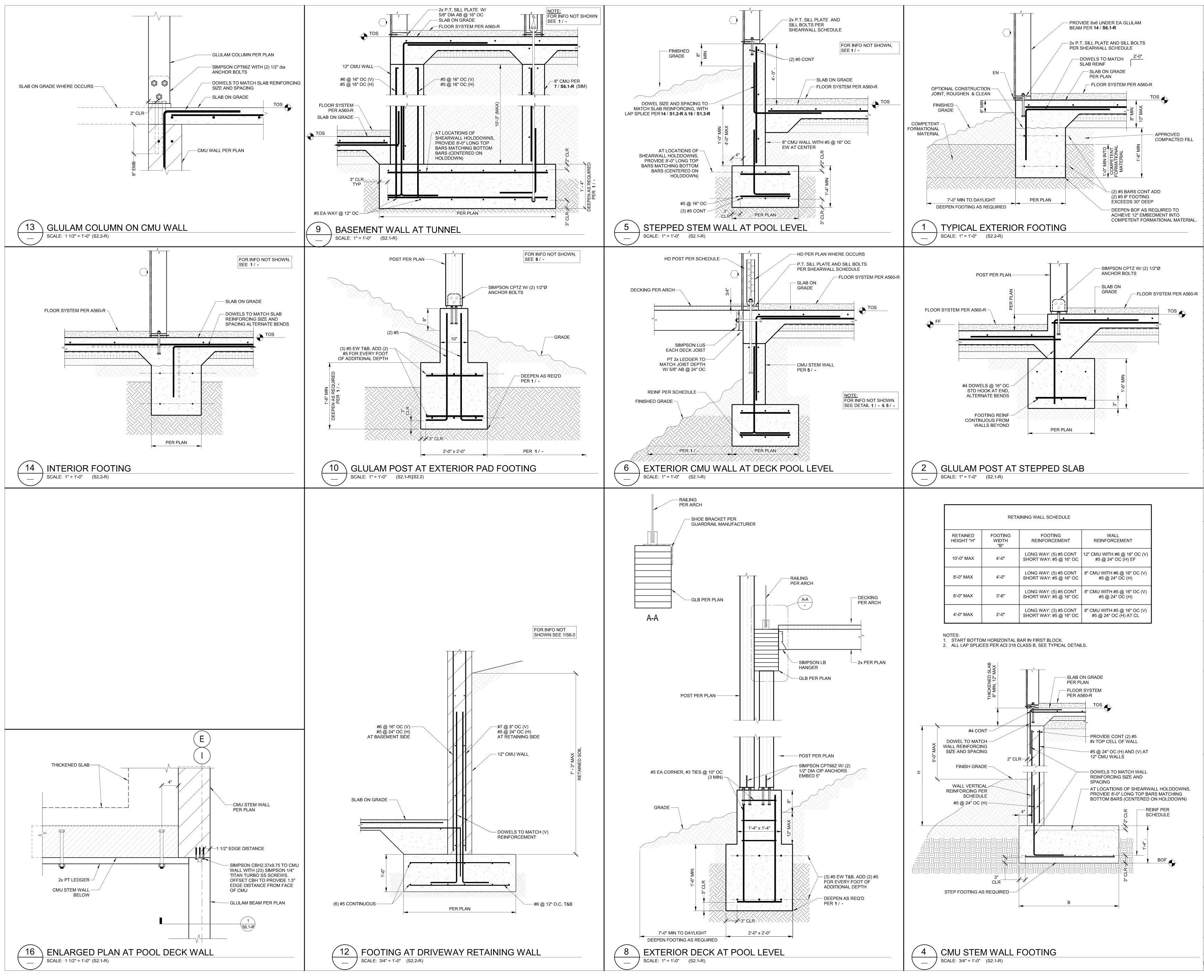
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- ALL INTERIOR WOOD WALLS SHALL BE 2x4, ALL EXTERIOR WOOD WALLS SHALL BE 2x6, EXCEPT WHERE INTERIOR WALL BELOW EXTERIOR WALL, INTERIOR WALL SHALL BE 2x6 TO MATCH WALL ABOVE, UNO.
- 5. 6x6 POST TO BE LOCATED BELOW GLULAM BEAMS IN WALL PER 14 S6.1-R
- SHEARWALL LENGTHS SHOWN ARE TO ENSURE END POSTS ALIGN WITH WALLS BELOW. NO OFFSET IN STACKED WALLS IS ALLOWED. NOTIFY THE ENGINEER OF RECORD IMMEDIATELY IF ANY DISCREPANCY IS FOUND.
   PLYWOOD TO BE INSTALLED ON ALL EXTERIOR WALLS AND
- ABOVE AND BELOW ALL OPENINGS PER SHEARWALL 6E, UNO. 8. ALL GLULAM BEAMS ARE CONTINUOUS. NO SPLICES
- ALLOWED EXCEPT AS SPECIFICALLY REFERENCED ON PLANS.
- 9. ELEVATIONS PROVIDED ARE BASED ON FF 0'-0" AT LOWER LEVEL PER ARCH

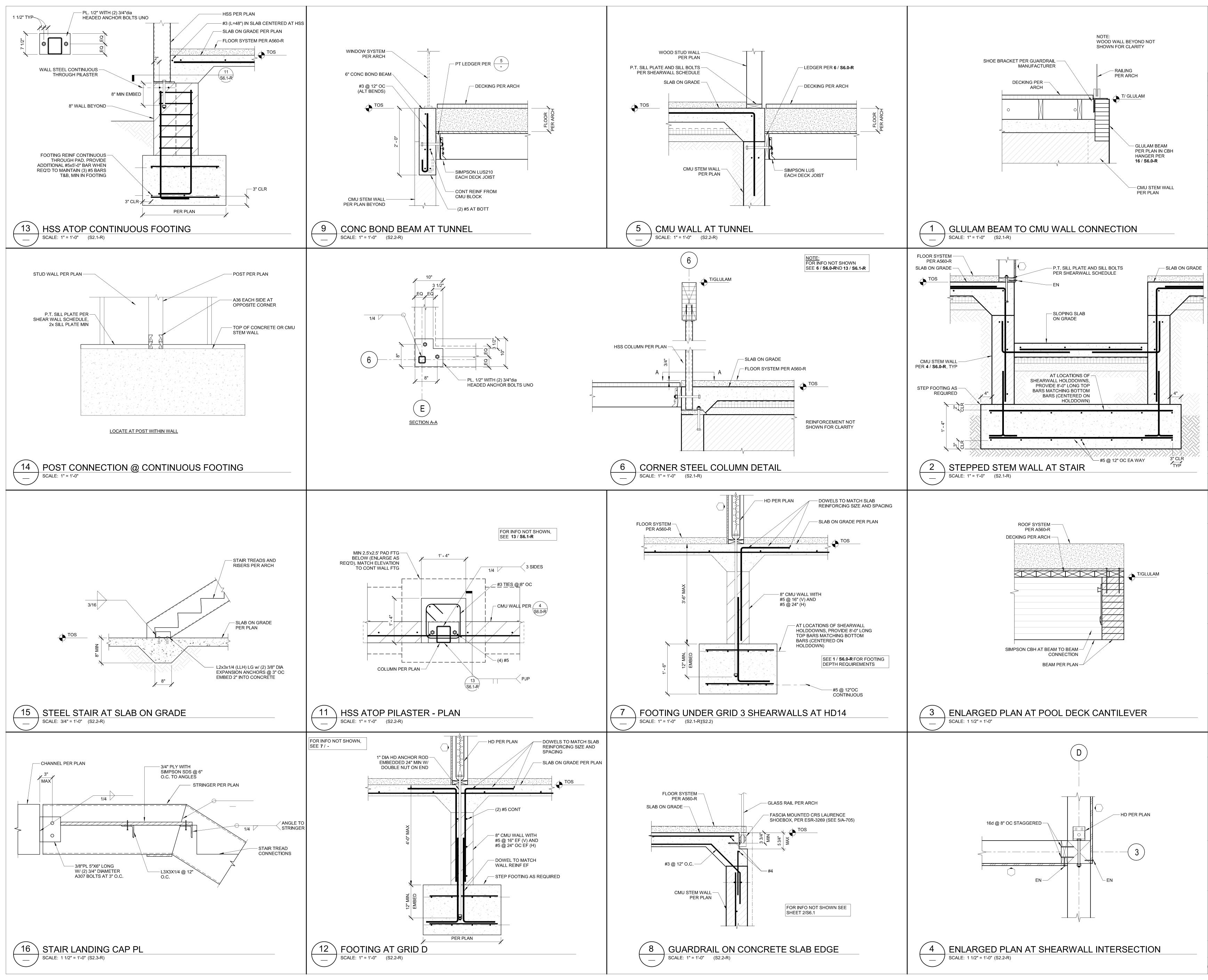
## <u>LEGEND</u>

 x'-xx"	DENOTES SHEAR WALL PER SCHEDULE (SW) W/ MIN SHEARWALL LENGTH, "X-XX". (\$2.1-R)
<del>. ഗ. ഗ</del> .	DENOTES STEPPED FOOTING PER
	DENOTES MASONRY WALL
	DENOTES 2x6 STUD WALL
	DENOTES 2x4 STUD WALL
⊖— HDU#	DENOTES HOLD DOWN PER
<b>⊠</b>	POST OF TYPE AND SIZE INDICATED
[]	DENOTES POST BELOW
	DENOTES WALL BELOW
	DENOTES CONCRETE PAD FOUNDATION
	DENOTES CONTINUOUS CONCRETE FOOTING
	MASONRY PILASTER
$\sim$	SPAN DIRECTION
$\longleftrightarrow$	FRAMING EXTENTS
•	SIMPSON CBH 2.37X9.75 CONNECTION PER 3/S7.2-R FOR WOOD TO WOOD, 14/S7.2-R FOR WOOD TO STEEL, 16/S6.0-R FOR WOOD TO CMU
	GLULAM BEAM SPLICE
	DIAPHRAGM: 1/2" APA RATED PLYWOOD 48/24 w/ 10d SCREW SHANK NAILS @ 6" BN, 6" EN, 12" FN, GLUED OVER 3x DF T&G DECKING W/ 1/4" DIA SIMPSON SDSx6" @ 16" OC TO GLULAM BEAMS





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NO	DATE	REASON FOR ISSUE	СНК
1 2	11/27/19 08/21/20	Plan Check Submission (Performed by Taquino Engineering) City Plan Check #01 (Performed by	
3	03/10/21	Taquino Engineering) City Plan Check #02 (Performed by	
4	03/30/22	Taquino Engineering) City Plan Check #03 (Performed by Taquino Engineering)	
5	06/07/22	City Plan Check #04 (Performed by Taquino Engineering)	
6	08/21/23 09/11/23	Bulletin 01 Bulletin 01 Reissue	
7 8		Plan Review Response Plan Review Response	
		Project Status	
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		Bulletin 01 Bulletin 01 Reissue	
7 12	/04/23	Plan Review Response Plan Review Response	
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