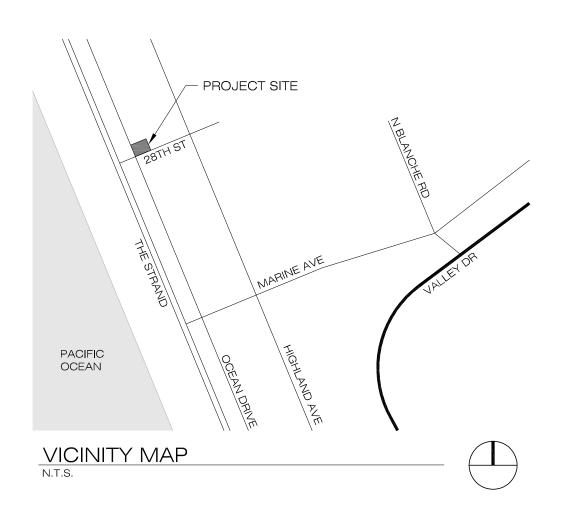
PROJECT DA	ATA: NEVV SI	NGLE FAM	ILY RESIDENCE	BUILDING IN	NFORMATION			
DESCRIPTION	EXISTIN	ISTING PROPOSED				OWNER	DJM FAMILY TRUST 4631 N 61ST PLACE	
PARCEL #	4176029	9011					SCOTTSDALE, AZ 85251 916.521.8177	
PROJECT ADDRESS	2800 00	CEAN DRIVE MAN	HATTAN BEACH, CALIFOF	RNIA 90266				
NUMBER OF STORIES	S		3 + BAS	EMENT		ARCHITECT	MICHAEL GROVES THE CONSTRUCTION ZONE LTD	
TYPE OF CONSTRUC	TION		V-B (SPI	RINKLERED)			1729 E OSBORN ROAD	
CODE CYCLE	CODE CYCLE 2022 CALIFORNIA CODE C			1			PHOENIX, AZ 85016 602.230.0383	
OCCUPANT USE			R-3/U			CONTRACTOR	RJ SMITH CONSTRUCTION	
AUTOMATIC FIRE	= EM		NFPA-1;	3D		CONTRACTOR	901 MANHATTAN BEACH BLVD MANHATTAN BEACH, CA 90266	
SPECIAL CONDITIONS	S SUPERS	STRUCTURE OF BL	JILDING THROUGH ROOF I	NSPECTION WAS PF	REVIOUSLY		310.648.8353	
	COMPLI	ETED UNDER PER	VIT 18-02269			STRUCTURAL ENGINEER		
MAIN RESIDE	ENCE (GROS	SS FLOOR	AREA)				M.S. STRUCTURAL ENGINEERING 3719 EMERALD STREET, UNIT A TORRANCE, CA 90503	
DESCRIPTION	EXISTIN	G (SF)	PROPOSED (SF)	GRADING DATA			310.809.7061	
INSIDE FOOTPRINT				GRADING / SITE V	VORK (CU YDS)	ENERGY CONSULTANT	MELISSA ALAVES MELISSA ALAVES DRAFTING 922 COQUINA LANE #3	
BASEMENT			761 SF	CUT	30 CU YDS			
1ST FLOOR			200 SF	FILL	0 CU YDS		VERO BEACH, FL 32963 562.362.7922	
2ND FLOOR			661 SF NET EXPORT 30 CY YDS		30 CY YDS			
3RD FLOOR			584 SF	4 SF		GEOTECHNICAL CONSULTANT	TONY LEE T.I.N. ENGINEERING CO.	
GARAGE			420 SF				17834 BAILEY DRIVE TORRANCE, CA 90504	
DECKS OVER 30"			198 SF	3 SF			310.371.7045	
ACCESSORY	STRUCTUE	RE		FLOOR AREA)				
(GROSS FLOOR						APPLICABLE C	CODES	
DESCRIPTION	EXISTING (SF)	PROPOSED (SF) DESCRIPTION	EXISTING (SF)	PROPOSED (SF)		PLY WITH THE FOLLOWING 2022 CALIFORNIA CODES:	
INSIDE FOOTPRINT			INSIDE FOOTPRINT			2022 CALIFORNIA BUILDING 2022 CALIFORNIA RESIDENT		
BASEMENT			BASEMENT			2022 CALIFORNIA RESIDENT 2022 CALIFORNIA ELECTRIC		
1ST FLOOR			1ST FLOOR			2022 CALIFORNIA MECHANI		
			2ND FLOOR			2022 CALIFORNIA PLUMBING	G CODE (CPC)	
2ND FLOOR								
2ND FLOOR 3RD FLOOR			3RD FLOOR			2022 CALIFORNIA ENERGY (
			3RD FLOOR GARAGE			2022 CALIFORNIA FIRE COD	E (CFC)	
3RD FLOOR						2022 CALIFORNIA FIRE COD 2022 CALIFORNIA EXISTING	E (CFC)	
3RD FLOOR GARAGE DECKS OVER 30"	 		GARAGE DECKS OVER 30"			2022 CALIFORNIA FIRE COD 2022 CALIFORNIA EXISTING 2022 CALIFORNIA GREEN BL MANHATTAN BEACH MUNIC	E (CFC) BUILDING CODE (CEBC) JILDING STANDARDS CODE (CGBSC) IPAL CODE	
3RD FLOOR GARAGE DECKS OVER 30" JADU (GROSS	 		GARAGE DECKS OVER 30" EXTERIOR E	 DECK, PORC		2022 CALIFORNIA FIRE COD 2022 CALIFORNIA EXISTING 2022 CALIFORNIA GREEN BI MANHATTAN BEACH MUNIC ORDINANCE 22-0008 AMEN	E (CFC) BUILDING CODE (CEBC) JILDING STANDARDS CODE (CGBSC) IPAL CODE DMENTS TO BUILDING CODE	
3RD FLOOR GARAGE DECKS OVER 30"	 		GARAGE DECKS OVER 30"	 DECK, PORC		2022 CALIFORNIA FIRE COD 2022 CALIFORNIA EXISTING 2022 CALIFORNIA GREEN BL MANHATTAN BEACH MUNIC	E (CFC) BUILDING CODE (CEBC) JILDING STANDARDS CODE (CGBSC) IPAL CODE DMENTS TO BUILDING CODE	
3RD FLOOR GARAGE DECKS OVER 30" JADU (GROSS	 		GARAGE DECKS OVER 30" EXTERIOR D (GROSS FLOO	 DECK, PORC		2022 CALIFORNIA FIRE COD 2022 CALIFORNIA EXISTING 2022 CALIFORNIA GREEN BI MANHATTAN BEACH MUNIC ORDINANCE 22-0008 AMEN ORDINANCE 22-0009 AMEN	E (CFC) BUILDING CODE (CEBC) JILDING STANDARDS CODE (CGBSC) IPAL CODE DMENTS TO BUILDING CODE	
3RD FLOOR GARAGE DECKS OVER 30" JADU (GROSS ATTACHED	 FLOOR AREA)		GARAGE DECKS OVER 30" EXTERIOR D (GROSS FLOO	 DECK, PORC R AREA) EXISTING (SF)	 H, PATIO	2022 CALIFORNIA FIRE COD 2022 CALIFORNIA EXISTING 2022 CALIFORNIA GREEN BU MANHATTAN BEACH MUNIC ORDINANCE 22-0008 AMEN ORDINANCE 22-0009 AMEN	E (CFC) BUILDING CODE (CEBC) JILDING STANDARDS CODE (CGBSC) IPAL CODE DMENTS TO BUILDING CODE DMENTS TO BUILDING CODE MENTS TO FIRE CODE	
3RD FLOOR GARAGE DECKS OVER 30" JADU (GROSS ATTACHED DESCRIPTION INSIDE FOOTPRINT BASEMENT	 FLOOR AREA)		GARAGE DECKS OVER 30" EXTERIOR D (GROSS FLOO DESCRIPTION EXTERIOR FOOTPF PORCH	 DECK, PORC R AREA) EXISTING (SF)	 H, PATIO	2022 CALIFORNIA FIRE COD 2022 CALIFORNIA EXISTING 2022 CALIFORNIA GREEN BU MANHATTAN BEACH MUNIC ORDINANCE 22-0008 AMEN ORDINANCE 22-0009 AMEN STREET USE OR ENCROACH FIRE SPRINKLER SYSTEM	E (CFC) BUILDING CODE (CEBC) JILDING STANDARDS CODE (CGBSC) IPAL CODE DMENTS TO BUILDING CODE DMENTS TO FIRE CODE RMITS REQUIRED IMENT PERMIT FOR WORK IN THE PUBLIC RIGHT-OF-WA	
3RD FLOOR GARAGE DECKS OVER 30" JADU (GROSS ATTACHED DESCRIPTION INSIDE FOOTPRINT BASEMENT 1ST FLOOR	FLOOR AREA) EXISTING (SF)	 PROPOSED (SF	GARAGE DECKS OVER 30" EXTERIOR D (GROSS FLOO DESCRIPTION EXTERIOR FOOTPF PORCH COVERED PATIO	 DECK, PORC R AREA) EXISTING (SF)	 H, PATIO	2022 CALIFORNIA FIRE COD 2022 CALIFORNIA EXISTING 2022 CALIFORNIA GREEN BU MANHATTAN BEACH MUNIC ORDINANCE 22-0008 AMEN ORDINANCE 22-0009 AMEN STREET USE OR ENCROACH FIRE SPRINKLER SYSTEM BASEMENT MECHANICAL V	E (CFC) BUILDING CODE (CEBC) JILDING STANDARDS CODE (CGBSC) IPAL CODE DMENTS TO BUILDING CODE DMENTS TO BUILDING CODE OMENTS TO FIRE CODE RMITS REQUIRED IMENT PERMIT FOR WORK IN THE PUBLIC RIGHT-OF-WA ENTILATION SYSTEM	
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DECKS OVER 30"

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C RIGHT-OF-WAY PHOTOVOLTAIC SYSTEM , NOTE: PHOTOVOLTAIC SYSTEM MUST BE INSTALLED PRIOR TO FINAL INSPECTION





BUILDING IN CURRENT WEATER-PROTECTED STATE

PROJECT DATA

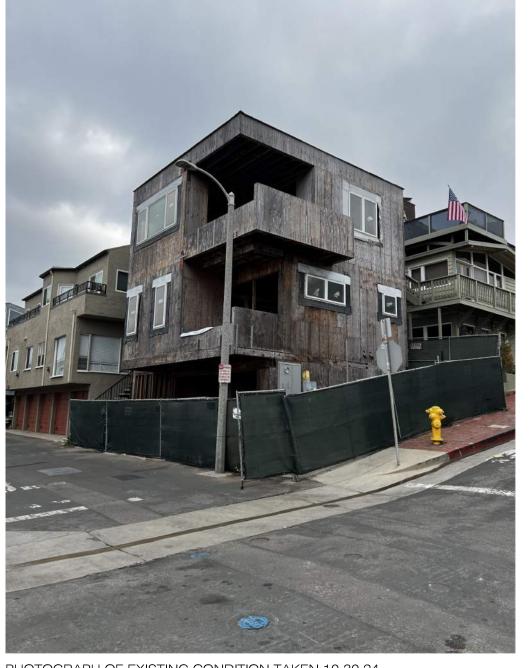
PROJECT DESCRIPTION

	BASEMENT AND GROUND LEVEL GARAGE. INCLUDES ALL NECESSARY SITE WORK. PROJECT WAS BEGUN UNDER PERMIT 18-02269.
PARCEL #	4176029011
PROJECT ADDRESS	2800 OCEAN DRIVE MANHATTAN BEACH CALIFORNIA 90266
LEGAL DESCRIPTION	PECK'S MANHATTAN BEACH TRACT SE 40 FT OF LOT 11, BLOCK 7
ZONING	RH
AREA DISTRICT:	III
MAX HEIGHT ALLOWED / PROPOSED	145.67' (+32'-10" AFF) / 145.5' (+32'-8" AFF)

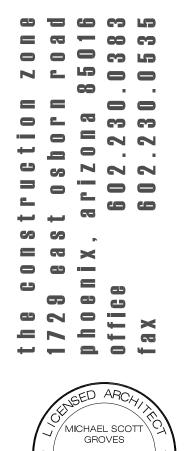
THREE STORY SINGLE FAMILY RESIDENCE WITH

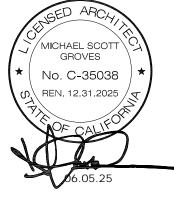
SHEET INDEX

A000 A001 A002 A003 A100 A200 A201 A220 A221 A220 A221 A230 A300 A301 A400 A401 A800	PROJECT DATA GENERAL NOTES AND LIFE SAFETY PLANNING CALCULATIONS / LANDSCAPE PLAN GENERAL SITE NOTES SURVEY SITE PLAN BASEMENT AND GROUND LEVEL FLOOR PLANS UPPER LEVEL FLOOR PLANS REFLECTED CEILING PLANS REFLECTED CEILING PLANS ROOF / PATIO PLAN EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS GLAZING ELEVATIONS
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M100	MECHANICAL PLANS
M101	MECHANICAL PLANS
E100	POWER PLANS / NOTES
E101	POWER PLANS
E110	LIGHTING PLANS
E111	LIGHTING PLANS
CG-1	CALGREEN MANDATORY MEASURES
CG-2	CALGREEN MANDATORY MEASURES
CG-3	SFR MANDATORY MEASURES
T24-1	ENERGY COMPLIANCE
T24-2	ENERGY COMPLIANCE
T24-3	ENERGY COMPLIANCE
GT-1	GEOTECHNICAL REPORT



PHOTOGRAPH OF EXISTING CONDITION TAKEN 10.30.24. EXISTING WORK WAS COMPLETED UNDER PERMIT 18-02269









GENERAL NOTES

- AQMD NOTIFICATION IS REQUIRED 10 DAYS BEFORE BEGINNING ANY DEMOLITION WORK. REQUIRED FORM IS AVAILABLE AT THE COMMUNITY DEVELOPMENT DEPARTMENT. PROVIDE PROOF OF NOTIFICATION 10 DAYS BEFORE BUILDING PERMIT IS ISSUED, OR COMPLETE ASBESTOS NOTIFICATION WAIVER
- 2. INSTALLATION OF INTERIOR AND EXTERIOR WALL AND CEILING COVERINGS SHALL CONFORM TO CHAPTER 25 OF THE CBC
- 3. ALL HOSE BIBS MUST BE PROTECTED BY BACKFLOW PREVENTION AND HAVE AN ANTI-SIPHON DEVICE
- PROVIDE APPROVED BACKWATER VALVE FOR ALL PLUMBING FIXTURES LOCATED BELOW THE ELEVATION OF THE NEXT UPSTREAM MANHOLE COVER. FIXTURES ABOVE SUCH ELEVATION SHALL NOT DISCHARGE THROUGH THE BACKWATER VALVE.
- 5. THE DESIGNER IS NOT RESPONSIBLE FOR SITE GRADING OR DRAINAGE 6. POST INSULATION COMPLIANCE CARD IN CONSPICUOUS LOCATION IN DWELLING PRIOR TO FINAL INSPECTION
- 7. DUCTS PENETRATING THE WALL OR CEILING BETWEEN THE GARAGE AND DWELLING UNIT SHALL BE CONSTRUCTED OF 26 GA MINIMUM SHEET METAL AND SHALL HAVE NO OPENING INTO THE GARAGE PER SECTION R302.5.2 DO NOT SCALE DRAWINGS - USE DIMENSIONS ONLY. DIMENSIONS SHALL
- TAKE PRECEDENCE OVER SCALE ON CONSTRUCTION DOCUMENTS. 9. VERIFY ALL DIMENSIONS AND CONDITIONS IN FIELD. IF DIMENSIONAL ERRORS OCCUR OR A CONDITION NOT COVERED IN THE DRAWINGS IS ENCOUNTERED, SUB-CONTRACTOR SHALL NOTIFY ARCHITECT, IN WRITING, BEFORE COMMENCING THAT PORTION OF THE WORK.
- 10. ALL DIMENSIONS ARE MEASURED TO GRID LINE; FACE OF STUD; FACE OF CMU; FACE OF CONCRETE OR TO CENTERLINE OF COLUMNS. (U.N.O.)
- 11. THE TERM 'FINISH FLOOR' SHALL MEAN THE NORMAL FINISHED SURFACE OF THE FLOOR LEVEL.
- 12. NOTIFY ARCHITECT IF DISCREPANCIES ARE NOTED IN THESE CONTRACT DOCUMENTS IN SUFFICIENT TIME AS TO NOT CAUSE DELAY.
- 13. IN THE EVENT OF DISCREPANCIES BETWEEN ANY DRAWINGS AND / OR SPECIFICATIONS, THE MORE RESTRICTIVE CONDITION SHALL BE DEEMED THE CONTRACT REQUIREMENT UNLESS OTHERWISE STATED.
- 14. COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK / PROJECT.
- 15. DETAILS, NOTES AND FINISHES SHALL BE APPLICABLE TO ALL TYPICAL CONDITIONS WHETHER OR NOT REFERENCED AT ALL PLACES ON THESE PLANS.
- 16. THE STARTING OF WORK BY ANY SUB-CONTRACTOR SHALL BE CONSIDERED PRIMA FACIE EVIDENCE THAT HE HAS INSPECTED THE DOCUMENTS AND FINDS THEM SATISFACTORY TO BUILD PROJECT PER BID.
- 17. SUB-CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT THE CONSTRUCTION OF THE PROJECT. THE SUB-CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE SUB-CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES BY OR INCURRED DURING THE EXECUTION OF THE WORK.
- 18. ALL SYSTEMS (MECHANICAL, PLUMBING, ELECTRICAL, LIGHTING, LANDSCAPE, ETC.) NEED TO BE COORDINATED BY THE SUB-CONTRACTORS (U.N.O). ANY SUBSTITUTIONS IN SPECIFICATIONS MUST BE SUBMITTED TO ARCHITECT FOR APPROVAL. SHOULD THE SUB-CONTRACTOR FIND ANY DISCREPANCIES, OMISSIONS, AMBIGUITIES, OR CONFLICTS IN ANY OF THE CONSTRUCTION DRAWINGS OR BE IN DOUBT AS TO THEIR MEANING. HE MUST BRING THE QUESTION TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION. THE ARCHITECT SHALL REVIEW THE QUESTION AND WHERE INFORMATION SOUGHT IS NOT CLEARLY INDICATED OR SPECIFIED, WILL ISSUE A WRITTEN CLARIFYING ADDENDUM, THE ARCHITECT WILL BE RESPONSIBLE FOR VERBAL INSTRUCTIONS.
- 19. THE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE SUB-CONTRACTOR TO CHECK WITH THE ARCHITECTURAL DRAWINGS BEFORE PROCEEDING WITH THE INSTALLATION OF MECHANICAL, PLUMBING AND ELECTRICAL WORK. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE CONSULTING ENGINEERING DRAWINGS, THAT WOULD CAUSE AWKWARD INSTALLATION. IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTIONS FOR CLARIFICATION PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE SUB-CONTRACTOR AT HIS OWN EXPENSE AND AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 20. ALL ELECTRICAL AND COMMUNICATIONS INDICATIONS ON ARCHITECTURAL DRAWINGS ARE FOR LOCATION PURPOSES ONLY.
- 21. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED, AND CONDITIONED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN SPECIFICATIONS OR INSTRUCTIONS UNLESS SPECIFIED TO THE CONTRARY HEREIN.
- 22. THE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE BREAKAGE, COLLAPSE, DISTORTIONS AND OFF ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.

- 23. THE SUB-CONTRACTOR SHALL NOT CONSTRUCT, UNLESS OTHERWISE NOTED, INTERIOR PARTITION WALLS TO FULL HEIGHT UNTIL ALL PIPES, DUCTS, ETC. ARE IN PLACE.
- 24. THE SUB-CONTRACTOR SHALL NOT INSTALL SUSPENDED CEILINGS IN AREAS WHERE PIPES ARE TO BE CONCEALED (HEATING + PLUMBING) UNTIL THE PIPING HAS BEEN TESTED.
- 25. THE SUB-CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING FIXTURES PRIOR TO THE CONSTRUCTION OF PARTITIONS BEHIND SUCH FIXTURES.
- 26. THE SUB-CONTRACTOR SHALL COORDINATE AND INSTALL ALL CLEANOUTS AND ACCESS DOORS IN PARTITIONS AND CEILINGS AS REQUIRED BY THE CONTRACT DOCUMENTS.
- 27. WHERE MANUFACTURER'S NAMES AND PRODUCT NUMBERS ARE INDICATED ON THE DRAWINGS IT SHALL BE CONSTRUED TO MEAN THE ESTABLISHMENT OF QUALITY AND PERFORMANCE STANDARDS OF SUCH ITEMS. ALL PRODUCTS MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE THEY SHALL BE DEEMED EQUAL
- 28. THE SUB-CONTRACTOR AGREES TO REPAIR OR REPLACE ANY DEFECTIVE WORK WITHOUT ADDITIONAL COST TO THE OWNER AND TO PAY THE COST OF REPAIRING DAMAGE TO THE WORK OF OTHER TRADES CAUSED BY THESE REPAIRS AND REPLACEMENTS.
- 29. PROVIDE CAULKING, SEALANT, AND / OR WEATHERPROOFING AT ALL PENETRATIONS IN WALLS, CEILINGS, AND FLOORS FOR PLUMBING, ELECTRICAL, AND OTHER OPENINGS IN THE BUILDING ENVELOPE.
- 30. PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING.
- 31. ANY ITEMS OR FEATURES IN CEILING, SUCH AS, BUT NOT LIMITED TO, LIGHT FIXTURES, DIFFUSERS, ETC. SHALL BE PLACED OR INSTALLED WITH SPECIAL ATTENTION TO CENTERING, SPACING AND ALIGNMENT WITH OTHER FEATURES IN PROXIMITY. CONSULT WITH ARCHITECT CONCERNING ANY QUESTIONS OR CONFLICTS ABOUT LOCATIONS.
- 32. ALL RUBBISH AND DEBRIS RESULTING FROM DEMOLITION AND / OR NEW WORK SHALL BE DISPOSED OFF-SITE AND SHALL NOT BE ALLOWED TO ACCUMULATE. LEAVE THE SITE AND SURROUNDING AREAS IN A NEAT AND ORDERLY CONDITION.
- 33. SUB-CONTRACTORS TO PROVIDE FOLLOWING SUBMITTALS / SHOP DRAWINGS: - CONCRETE MIX DESIGNS, AND REINFORCING - CAST IN PLACE CONCRETE SHOP DRAWINGS
- MASONRY SHOP DRAWINGS
- STRUCTURAL STEEL SHOP DRAWINGS
- ARCHITECTURAL METAL SHOP DRAWINGS - METAL ROOF FLASHING DETAILS AND PANEL LAYOUTS
- HVAC EQUIPMENT AND GRILL
- DOOR AND WINDOW SHOP DRAWINGS
- LIGHT FIXTURE SUBMITTAL - ELECTRICAL EQUIPMENT
- APPLIANCE SUBMITTAL
- PLUMBING FIXTURES AND FITTINGS SUBMITTAL - PLUMBING EQUIPMENT
- HARDWARE SUBMITTAL
- A/V SUBMITTALS AND LAYOUTS SHOWING ALL SPEAKER AND CONTROL DEVICE LOCATIONS - SECURITY SYSTEM SUBMITTALS WITH LAYOUT OF ALL DEVICES
- CABINETRY SHOP DRAWINGS - TILE LAYOUT
- LANDSCAPING SUBMITTAL
- SEPTIC DESIGN SUBMITTAL - PROJECT AS-BUILTS AND OWNER'S MANUAL AT PROJECT COMPLETION
- 31. SUB-CONTRACTOR TO ARRANGE PRE-DRYWALL WALK THROUGH TO VERIFY:
- LIGHTING, SWITCHING AND OUTLET LAYOUT PLUMBING FIXTURE LOCATIONS
- 32. STRUCTURED WIRING / SECURITY SYSTEM

FIRE SPRINKLER NOTES

- 1. FIRE SPRINKLERS SHALL BE UNDER SEPARATE PLAN CHECK AND PERMIT 2. PROPERTY ADDRESS MUST BE PERMANENTLY AFFIXED TO BUILDING IN ACCORDANCE WITH MBMC 505.1 PRIOR TO FINAL INSPECTION
- 3. AUTOMATIC RESIDENTIAL FIRE SPRINKLER SYSTEM SHALL BE INSTALLED IN THE DWELLING UNIT AND OTHER AREAS AS REQUIRED BY THE FIRE CODE OFFICIAI
- 4. AUTOMATIC RESIDENTIAL FIRE SPRINKLERS SHALL COMPLY WITH THE MANHATTAN BEACH FIRE DEPARTMENT MINIMUM REQUIREMENTS FOR NFPA 1 30 FIRE SPRINKLER SYSTEMS
- 5. HORN/STROBE ALARM DEVICE SHALL BE PLACED ON THE ADDRESS SIDE OF THE BUILDING UNLESS OTHERWISE SPECIFIED BY THE FIRE OFFICIAL
- 6. AUTOMATIC RESIDENTIAL FIRE SPRINKLER SYSTEM SHALL BE INSTALLED IN THE GARAGE AND IN OTHER AREAS AS REQUIRED BY THE CODE OFFICIAL

LIGHT + VENTILATION + EGRESS REQ'S (PER CRC R303.1)

ROOM	VENTILATION = 4% OF FLOOR AREA REQ'D LIGHT = 8% OF FLOOR AREA REQ'D	PROVIDED	EGRESS: HEIGHT, WIDTH,) AND SILL PROVIDED)
BEDROOM	FLOOR AREA (134 S.F.) X .04 = 5.4 S.F.	11.6 S.F.	31"W x 54"H @
(BASEMENT)	FLOOR AREA (134 S.F.) X .08 = 10.8 S.F.	11.6 S.F.	42" A.F.F.
GUEST BEDRM	FLOOR AREA (128 S.F.) X .04 = 5.1 S.F.	23.2 S.F.	31"W x 61"H @
(2ND FLOOR)	FLOOR AREA (128 S.F.) X .08 = 10.2 S.F.	23.2 S.F.	37" A.F.F.
M BEDROOM	FLOOR AREA (159 S.F.) X .04 = 6.4 S.F.	52.7 S.F.	82"W (CLR) x 96-1/2"H
(2ND FLOOR)	FLOOR AREA (159 S.F.) X .08 = 12.8 S.F.	67 S.F.	@ 0'-0" A.F.F.

BASEMENT NOTE: FOR OTHER THAN THE BEDROOM EGRESS WINDOW, NATURAL LIGHT AND $\sim 2/1$ VENTILATION ARE NOT REQUIRED PER R303.1, EXCEPTIONS 1 AND 3, AS THE HOUSE IS PROVIDED WITH A MECHANICAL VENTILATION SYSTEM PRODUCING A MINIMUM OF 0.35 ACH/HR AND SUFFICIENT ARTIFICIAL LIGHTING

MAXIMUM HEIGHT NOTE

PARAPETS, SATELLITE ANTENNAE, RAILS, SKYLIGHTS, AND ROOF EQUIPMENT, MUST ALL BE WITHIN THE MAXIMUM HEIGHT LIMIT

CONSTRUCTION NOTE

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS, AND ANY CHANGES MADE DURING CONSTRUCTION THAT ARE NOT IN COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE RESUBMITTED FOR APPROVAL AS AN AMENDED SET OF CONSTRUCTION DOCUMENTS (R106.4 CRC, 107.4 CBC)

PLANNING & BUILDING NOTES

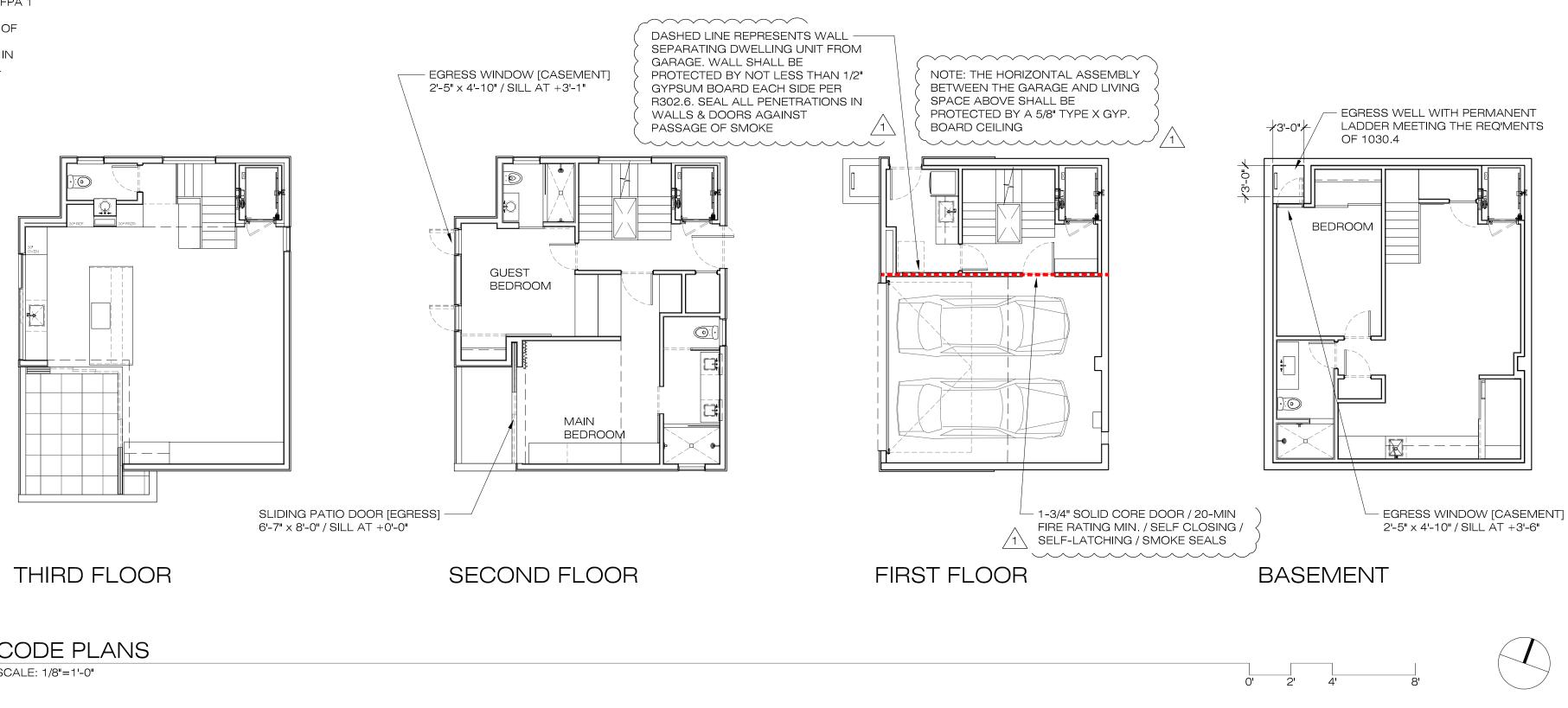
- 1. ALL BUILDING FEATURES PROJECTING INTO REQUIRED SETBACKS SHALL BE INDICATED ON SITE/PLOT
- PLAN. 2. SEPARATE PERMITS AND PLANS ARE REQUIRED FOR SPAS. POOLS, SOLAR SYSTEMS DEMOLITION AND SEWER CAP OF EXISTING BUILDINGS. IF SUCH IMPROVEMENTS OR DEMOLITION IS REQUIRED AS A CONDITION OF APPROVAL FOR DISCRETIONARY ACTIONS OR TO COMMENCE BUILDING. THEN SUCH PERMITS MUST BE OBTAINED BEFORE OR AT THE TIME THE PROPOSED BUILDING PERMIT IS ISSUED
- 3. FENCE, WALL, HANDRAIL HEIGHTS, AS MEASURED FROM THE LOWEST FINISHED GRADE ADJACENT TO EACH SECTION OF THESE STRUCTURES, MAY BE A MAXIMUM OF 42" IN THE FRONT YARD SETBACK, AND 72" AT ALL OTHER LOCATIONS ON SITE. (36" IF OBSTRUCTING DRIVEWAY VISIBILITY, COMBINED RETAINING AND FREE STANDING WALL)
- 4. BUILDING ADDRESS NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND, 4" HIGH MINIMUM AND WITH A MINIMUM STROKE WIDTH OF 0.5" - PER SECT. R319.1
- 5. PARKING IS NOT PERMITTED IN REQUIRED YARDS OR OPEN SPACE EXCEPT A 20' WIDE FRONT YARD
- 6. INSTALL ON THE COLD WATER SUPPLY PIPE AT TOP OF THE WATER HEATER A CAPPED 'T' FITTING TO PLUMB FOR FUTURE SOLAR WATER HEATING.
- 7. ROUTE UNDERGROUND CONDUIT TO POWER POLE PER PUBLIC WORKS DEPARTMENT HANDOUT ST-13. STUB OUT TO PROPERTY LINE FOR FUTURE UNDER-GROUNDING OF UTILITIES WHEN APPLICABLE.
- PROVIDE VISUAL SCREENING FOR PROPOSED MECHANICAL EQUIPMENT AND UTILITY METERS (TOP NEED NOT BE SCREENED IF LOCATED ON INTERIOR SIDE OF DWELLING).
- 9. GAS AND ELECTRIC METERS MUST CLEAR PROPERTY LINES BY 3'-0". 10. CONTRACTOR TO CHECK CITY RECORDS TO DETERMINE EXISTENCE OF CESSPOOL ON PROPERTY. IF THERE IS AN EXISTING CESSPOOL, IT MUST BE LOCATED AND THEN INSPECTED BY CITY PERSONNEL BEFORE DEMOLITION OR BUILDING PERMITS CAN BE ISSUED.
- 11. CHIMNEYS MAY EXCEED THE MAXIMUM PERMITTED HEIGHT BY NO MORE THAN 5 FEET, PROVIDED THE LENGTH AND WIDTH OF THE CHIMNEY PORTION EXCEEDING THE HEIGHT LIMIT SHALL NOT EXCEED 3 FEET IN WIDTH AND 5 FEET IN LENGTH.
- 12. PARAPETS, SATELLITE ANTENNAE, RAILS, SKYLIGHTS, ROOF EQUIPMENT, MUST BE WITHIN THE MAXIMUM ALLOWABLE HEIGHT LIMIT.
- 13. AT LEAST 20% OF ALL VISIBLE PORTIONS OF A REQUIRED FRONT OR CORNER SIDE YARD ADJOINING A STREET SHALL BE PLANTING AREA (MBMC10.12.030(0).
- 14. A TREE REMOVAL PERMIT OR TREE PROTECTION PLAN IS REQUIRED FOR THE REMOVAL OR PRESERVATION OF TREES WITHIN THE FRONT YARD (RESIDENTIAL ZONES , AREA DISTRICT II, WEST OF SEPULVEDA BOULEVARD-MBMC 10.52.120).
- 15. ALL UTILITY AND EQUIPMENT LOCATIONS, INCLUDING FIRE SPRINKLER CHECK VALVES, ELECTRIC AND WATER METERS, UTILITY CABINETS, ETC. AND ANY REQUIRED PROTECTIVE POLES. (NOTE: CBC AND SCE REQUIRE THAT ELECTRIC BOXES MUST PROVIDE 3 FEET CLEAR TO ANY OBSTRUCTION. AND IF LOCATED ADJACENT TO A PARKING AREA PROTECTIVE BARRIERS 3 FEET AWAY FROM THE BOX IS REQUIRED PROTECTIVE BARRIERS MAY NOT ENCROACH INTO THE REQUIRED PARKING OR VEHICLE MANEUVERING AREA.)

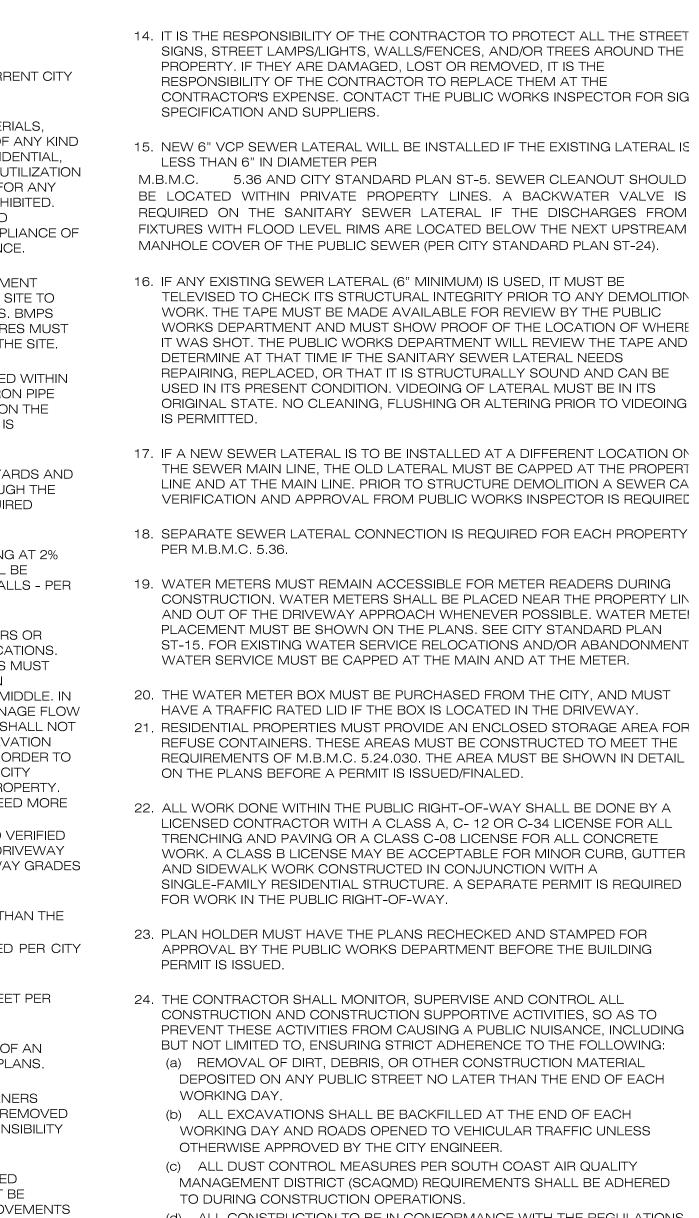
MAXIMUM HEIGHT NOTE

PARAPETS, SATELLITE ANTENNAE, RAILS, SKYLIGHTS, AND ROOF EQUIPMENT, MUST BE WITH THE MAXIMUM HEIGHT LIMIT.

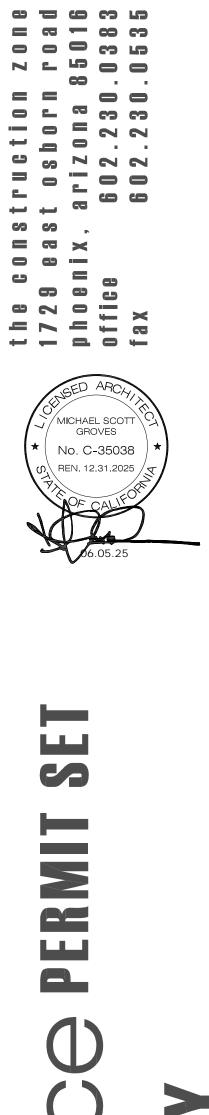
PUBLIC WORKS NOTES

- 1. ALL LANDSCAPE IRRIGATION BACKFLOW DEVICES MUST MEET CURRENT CITY REQUIREMENTS FOR PROPER INSTALLATION
- 2. NO DISCHARGE OF CONSTRUCTION WASTEWATER, BUILDING MATERIALS, DEBRIS, OR SEDIMENT FROM THE SITE IS PERMITTED. NO REFUSE OF ANY KIND GENERATED ON A CONSTRUCTION SITE MAY BE DEPOSITED IN RESIDENTIAL COMMERCIAL, OR PUBLIC REFUSE CONTAINERS AT ANY TIME. THE UTILIZATION OF WEEKLY REFUSE COLLECTION SERVICE BY THE CITY'S HAULER FOR ANY REFUSE GENERATED AT THE CONSTRUCTION SITE IS STRICTLY PROHIBITED. FULL DOCUMENTATION OF ALL MATERIALS/TRASH LANDFILLED AND RECYCLED MUST BE SUBMITTED TO THE PERMITS DIVISION IN COMPLIANCE OF THE CITY'S CONSTRUCTION AND DEMOLITION RECYCLING ORDINANCE.
- EROSION AND SEDIMENT CONTROL DEVICES BMPS (BEST MANAGEMENT PRACTICES) MUST BE IMPLEMENTED AROUND THE CONSTRUCTION SITE TO PREVENT DISCHARGES TO THE STREET AND ADJACENT PROPERTIES. BMPS MUST BE IDENTIFIED AND SHOWN ON THE PLAN. CONTROL MEASURES MUST ALSO BE TAKEN TO PREVENT STREET SURFACE WATER ENTERING THE SITE.
- 4. ALL STORM WATER, NUISANCE WATER, ETC. DRAIN LINES INSTALLED WITHIN THE STREET RIGHT OF WAY MUST BE CONSTRUCTED OF 3" CAST IRON PIPE AND LABELLED ON THE SITE PLAN. DRAIN LINES MUST BE SHOWN ON THE PLANS. CONNECTING ON-SITE DRAINAGE LINE TO SEWER LATERAL IS STRICTLY PROHIBITED.
- 5. ALL CONCENTRATED RUNOFF WATER FROM THE ROOF AND SIDE YARDS AND PATIOS MUST DISCHARGE ONTO OCEAN DRIVE/28TH STREET THROUGH THE DRAIN LINES AND MUST BE SHOWN ON THE PLANS WITH ALL REQUIRED OUTLET FLOW LINE ELEVATIONS AT THE DISCHARGE POINT.
- IMPERVIOUS SURFACE SHALL BE SLOPED AWAY FROM THE BUILDING AT 2% MINIMUM SLOPE FOR A MINIMUM DISTANCE OF 10 FEET; LOT SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS - PER C.R.C. SECTION R401.3.
- SIDEWALK, DRIVEWAY, CURB, AND GUTTER CONSTRUCTION, REPAIRS OR REPLACEMENT MUST BE COMPLETED PER PUBLIC WORKS SPECIFICATIONS. SEE CITY STANDARD PLANS ST-1, ST-2, ST-3 AND ST-10. THE PLANS MUST HAVE A PROFILE OF THE DRIVEWAY, PERCENTAGE (%) OF SLOPE ON DRIVEWAY, AND DRIVEWAY ELEVATIONS FOR EACH SIDE AND THE MIDDLE. IN THE CASE WHERE THE GARAGE LEVEL IS BELOW THE STREET DRAINAGE FLOW LINES, THE COMBINED SLOPE OF PUBLIC AND PRIVATE APPROACH SHALL NOT EXCEED 15% (CITY RECOMMENDS THAT GARAGE FINISH FLOOR ELEVATION PER DESIGN PLANS BE HIGHER THAN EXISTING STREET GRADES, IN ORDER TO MINIMIZE POSSIBILITY OF ANY FUTURE FLOODING IN THE GARAGE). CITY PLANS/SURVEY MUST SHOW ELEVATIONS FOR EACH ADJOINING PROPERTY NO DEVIATIONS IN ELEVATIONS BETWEEN PROPERTIES SHALL EXCEED MORE THAN 1/4"
- 8. DRIVEWAY PROFILES EXCEEDING 10% GRADE WILL BE STAKED AND VERIFIED BY LICENSED PROFESSIONAL LAND SURVEYOR. VERIFICATION OF DRIVEWAY GRADES WILL BE DONE PRIOR TO POURING GARAGE SLAB. DRIVEWAY GRADES EXCEEDING 15% ARE NOT PERMITTED.
- 9. THE BACK OF DRIVEWAY APPROACH MUST BE SIX INCHES HIGHER THAN THE FLOW LINE ON THE STREET. M.B.M.C. 9.76.30. THE DRIVEWAY APRON ON OCEAN DRIVE MUST BE IMPROVED PER CITY STANDARD PLANS.
- 10. CONSTRUCT SIDEWALK ALONG THE FULL FRONTAGE OF 28TH STREET PER CITY STANDARD PLANS.
- 11. IF THE PROPERTY IS LOCATED ON A CORNER LOT, CONSTRUCTION OF AN ACCESSIBLE CURB RAMP MAY BE REQUIRED PER CITY STANDARD PLANS.
- 12. CONTRACTOR TO PROTECT IN PLACE ALL EXISTING PROPERTY CORNERS DURING CONSTRUCTION. IF ANY OF THE PROPERTY CORNERS ARE REMOVED OR DESTROYED DURING CONSTRUCTION, IT WOULD BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE THEM.
- 13. ALL EXISTING OR CONSTRUCTION RELATED DAMAGES OR DISPLACED CURB/GUTTER, SIDEWALK, DRIVEWAY APPROACH OR STREET MUST BE REPLACED AND SHOWN ON THE PLANS. ADDITIONAL PUBLIC IMPROVEMENTS MAY BE REQUIRED DURING AND/OR NEAR THE COMPLETION OF CONSTRUCTION PER M.B.M.C. 9.72 AS DETERMINED BY THE PUBLIC WORKS INSPECTOR BASED ON CONDITIONS OF PUBLIC IMPROVEMENTS.



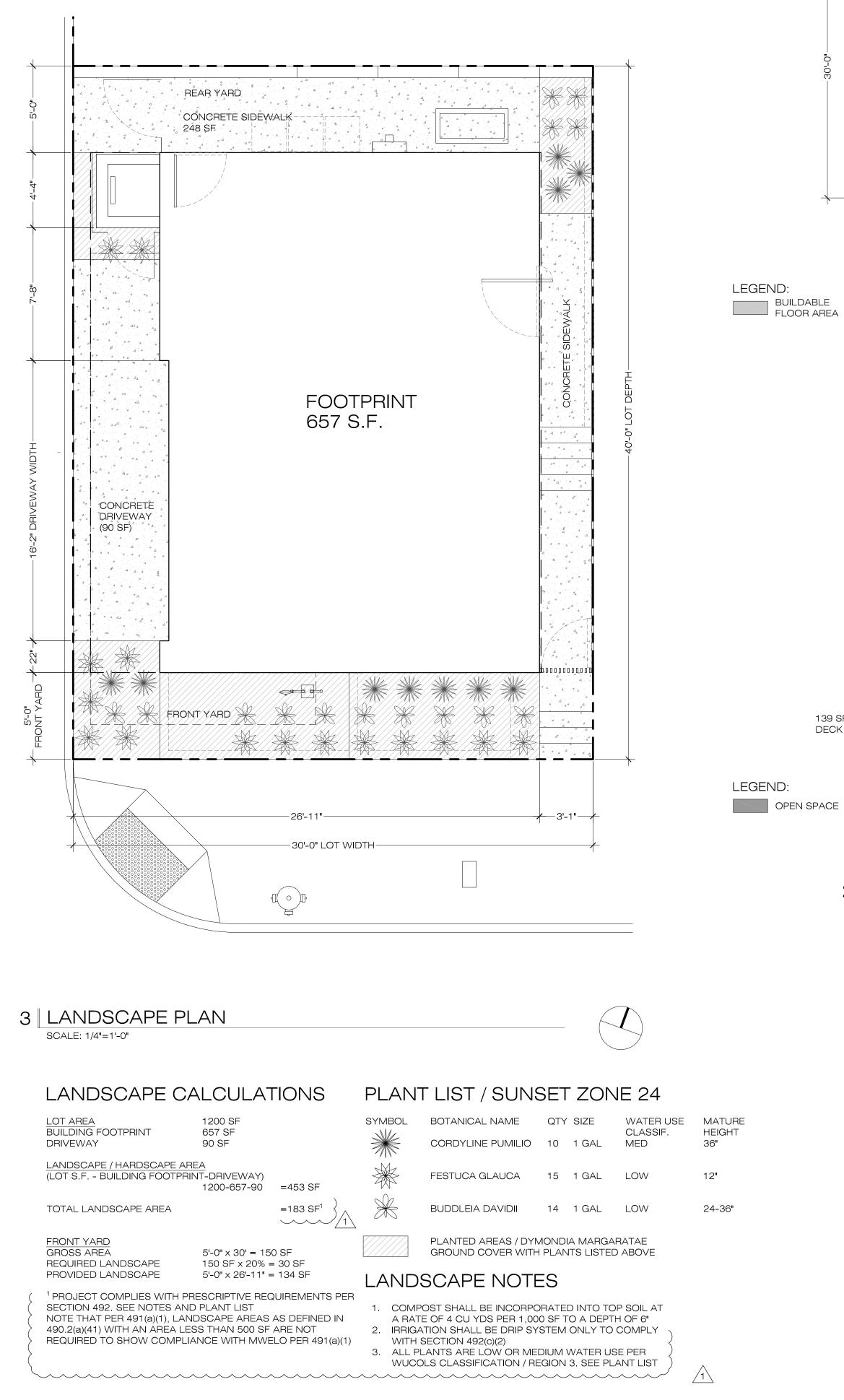


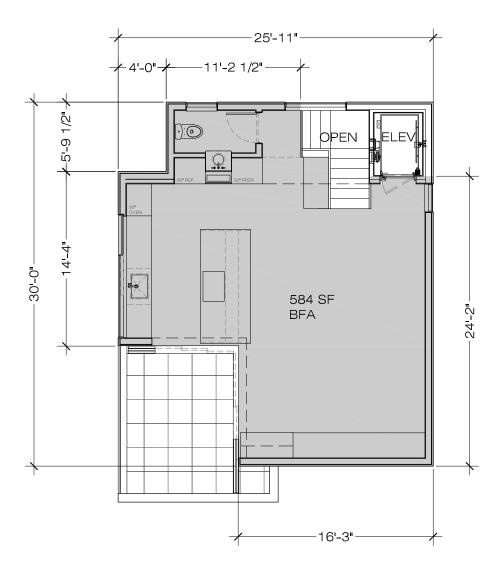
(d) ALL CONSTRUCTION TO BE IN CONFORMANCE WITH THE REGULATIONS OF CAL-OSHA

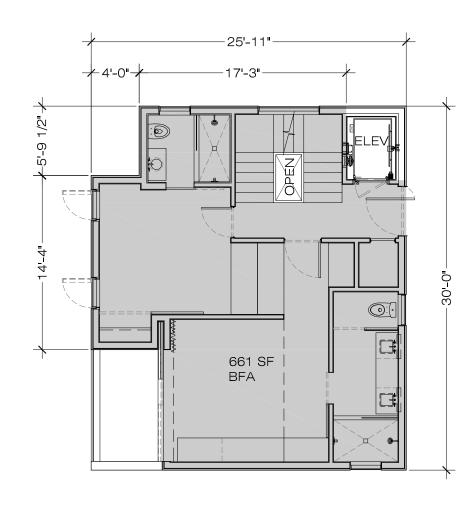


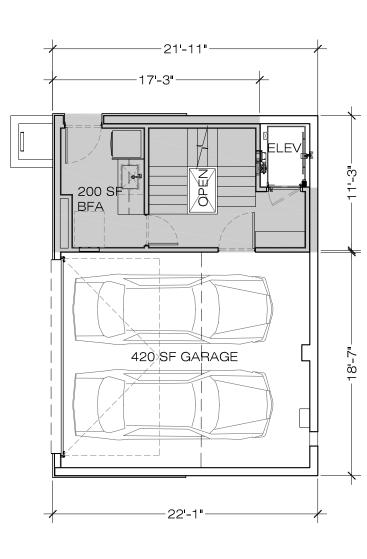
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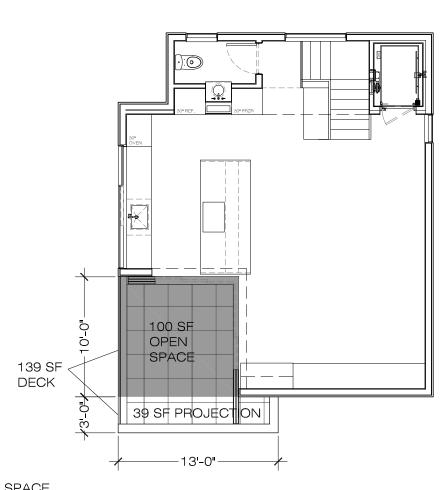




SECOND FLOOR

1 | BUILDABLE FLOOR AREA SCALE: 1/8"=1'-0"

THIRD FLOOR



THIRD FLOOR

2 OPEN SPACE

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

PLANNING AREA CALCULATIONS

1,200 SF

761 SF

200 SF

661 SF

584 SF

2,206 SF

59 + 139 = 198 SF

1.7 × 1,200 = 2,040 SF

SECOND FLOOR = 661 SF

420 SF

AREA CALCULATIONS AREA OF LOT

BASEMENT FLOOR LIVING FIRST FLOOR LIVING SECOND FLOOR LIVING THIRD FLOOR LIVING

TOTAL LIVING GARAGE BALCONIES

B.F.A. CALCULATIONS ALLOWABLE B.F.A. ACTUAL FLOOR AREA

TOTAL PROPOSED FLOOR AREA

OPEN SPACE CALCULATIONS OPEN SPACE REQ'D OPEN SPACE PROVIDED

THIRD FLOOR = 584 SF 1,478 SF < 2,040 SF B.F.A. (INCL BASEMENT) = 2,206 SF x 15% = 331 SF 145 SF (REAR YARD) 32 SF (FIRST FLOOR) 59 SF (SECOND FLOOR DECK)

BASEMENT = 0 (BELOW GRADE) + 33 SF (STAIRS) FIRST FLOOR (200 + (0 / GARAGE EXEMPT) = 200 SF

100 SF (THIRD FLOOR DECK W/O OVERHANG) TOTAL OPEN SPACE

DECK PROJECTION CALCULATIONS ALLOWABLE AREA

ALLOWED PROJECTION LENGTH ACTUAL PROJECTION LENGTH

BUILDING SETBACKS REAR SIDE CORNER [SIDE] SETBACK

HEIGHT CALCULATIONS MAX BUILDING HEIGHT AVG. SITE ELEVATION

MAX ALLOWABLE HEIGHT ACTUAL HEIGHT

3 x (1/2 BUILDABLE LOT WIDTH) $= 3 \times (0.5 \times 26) = 39 \text{ S.F.}$ 0.5 × 26' = 13'-0" 39 SF / 13' LONG

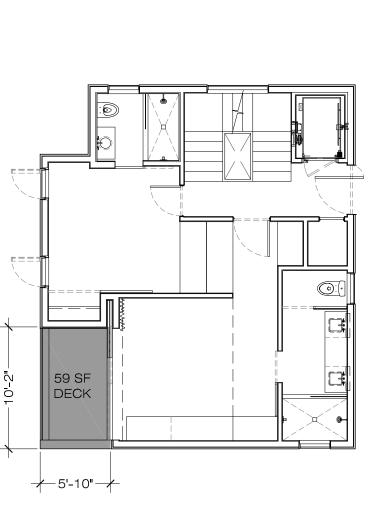
-O

5 FT 5 FT 10% × 30' WIDTH = 3 FT 1 FT

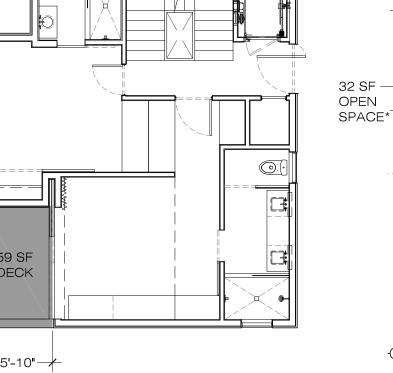
30 FT 112.26' + 112.32' +117.75' + 120.35' = 462.68' 462.68'/4 = 115.67' 115.67' + 30' = 145.67' 145.50

PROVIDED

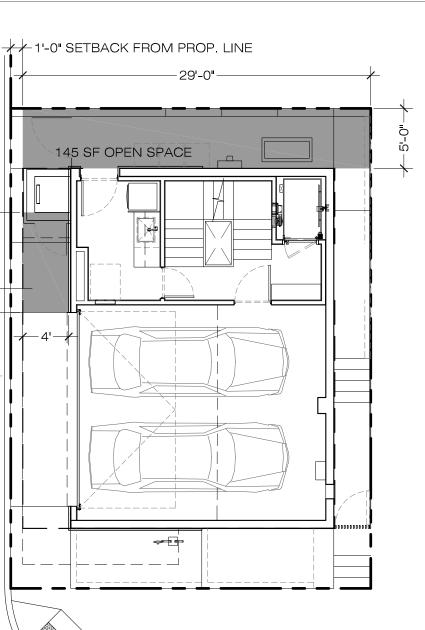
336 SF > 331 SF



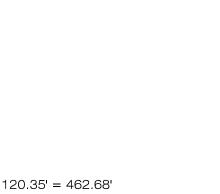
SECOND FLOOR

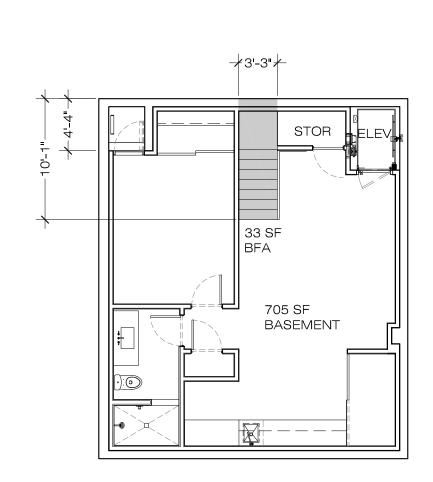


FIRST FLOOR

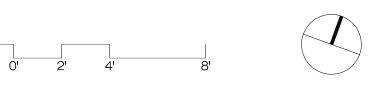


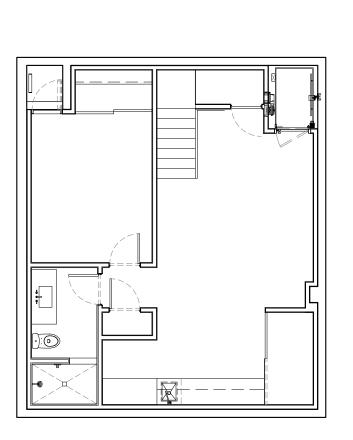
FIRST FLOOR

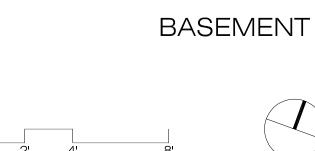


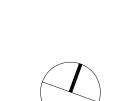


BASEMENT









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ANDSC/ 65 ~ σ 04.18.25 06.06.25



CAUTION:

1. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA - U.S.A AT 811 - FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK ON THIS SITE.

GENERAL SITE NOTES:

- 1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
- 2. ALL WORK ON-SITE AND IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS.
- REQUIREMENTS. PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR THE FINAL OR SURFACE LAYER OF ASPHALT CONCRETE SHALL NOT BE PLACED UNTIL ALL ON-SITE SHALL FIELD CHECK ALL EXISTING ELEVATIONS MARKED WITH AND REPORT ANY DISCREPANCIES IMPROVEMENTS HAVE BEEN COMPLETED, INCLUDING ALL GRADING, AND ALL UNACCEPTABLE GREATER THAN 0.05' TO PROJECT MANAGER. CONCRETE WORK HAS BEEN REMOVED AND REPLACED, UNLESS OTHERWISE APPROVED BY THE DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE CITY ENGINEER AND/OR DEVELOPER'S CIVIL ENGINEER.
- RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT DEFEND, INDEMNIFY, AND HOLD THE CLIENT, THE CONSULTING ENGINEER, AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CLIENT OR THE CONSULTING ENGINEER.
- 6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

DEMOLITION NOTES

- 1. CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
- 2. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
- EXTENT OF THE DEMOLITION WORK.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION WORK.
- 5. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 6. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 7. PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION CONTROL PLAN & DETAILS.
- 8. THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR
- CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND ALL PUBLIC STREETS AND MEDIANS SOILED OR LITTERED DUE TO THIS CONSTRUCTION ACTIVITY REGULATIONS. SHALL BE CLEANED AND SWEPT ON A DAILY BASIS DURING THE WORK WEEK, OR AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR, OR TO THE SATISFACTION OF THE CITY'S 9. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND DEPARTMENT OF PUBLIC WORKS. STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR HIS AGENTS OR ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS SHALL BE COVERED WITH APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE. TARPAULINS OR OTHER EFFECTIVE COVERS.
- 10. COORDINATE WITH ELECTRICAL, MECHANICAL, LANDSCAPING AND ARCHITECTURAL DRAWINGS FOF WHEEL WASHERS SHALL BE INSTALLED AND USED TO CLEAN ALL TRUCKS AND EQUIPMENT LEAVING UTILITY SHUT-DOWN/DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS THE CONSTRUCTION SITE. IF WHEEL WASHERS CANNOT BE INSTALLED, TIRES OR TRACKS OF ALL NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS TRUCKS AND EQUIPMENT SHALL BE WASHED OFF BEFORE LEAVING THE CONSTRUCTION SITE. WITH THE CLIENT. DO NOT INTERRUPT SERVICES TO ADJACENT OFF-SITE OWNERS. ALSO SEE ARCHITECTURAL PLANS FOR ADDITIONAL DEMOLITION SCOPE OF WORK.
- THE CONTRACTOR SHALL DEMONSTRATE DUST SUPPRESSION MEASURES, SUCH AS REGULAR WATERING. WHICH SHALL BE IMPLEMENTED TO REDUCE EMISSIONS DURING CONSTRUCTION AND 11. THIS PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND GRADING IN A MANNER MEETING THE APPROVAL OF THE CONSTRUCTION MANAGER. THIS SHALL UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER ASSIST IN REDUCING SHORT-TERM IMPACTS FROM PARTICLES WHICH COULD RESULT IN AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS NUISANCES THAT ARE PROHIBITED BY RULE 403 (FUGITIVE DUST). THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE GRADING OR ANY OTHER OPERATIONS THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT DUST AFFECTS ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT DUST SHOWN, IT IS NOT IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR REMOVED. THE CONTROL FOR THE ENTIRE PROJECT SITE IN ACCORDANCE WITH NPDES AT ALL TIMES. THE SITE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE SHALL BE SPRINKLERED AS NECESSARY TO PREVENT DUST NUISANCE. IN THE EVENT THAT THE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST, THE CLIENT EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OF WORK CHARGE THE COST TO THE CONTRACTOR. INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.

RECORD DRAWINGS:

SITE FENCE NOTES: 1. THE CONTRACTOR SHALL KEEP UP-TO-DATE AND ACCURATE A COMPLETE RECORD SET OF PRINTS OF THE CONTRACT DRAWINGS SHOWING EVERY CHANGE FROM THE ORIGINAL DRAWINGS MADE DURING THE COURSE OF CONSTRUCTION INCLUDING EXACT FINAL LOCATION, ELEVATION, SIZES, 1. CONTRACTOR SHALL PROVIDE A CONSTRUCTION FENCE AROUND THE MATERIALS, AND DESCRIPTION OF ALL WORK. RECORDS SHALL BE "REDLINED" ON A SET OF ENTIRE AREA OF DEMOLITION AND CONSTRUCTION, INCLUDING ALL CONSTRUCTION PLAN DRAWINGS. A COMPLETE SET OF CORRECTED AND COMPLETED RECORD STAGING, STORAGE, CONSTRUCTION OFFICE AND LAYDOWN AREAS. DRAWING PRINTS SHALL BE SUBMITTED TO THE CITY ENGINEER AND DEVELOPER'S CIVIL ENGINEEF PRIOR TO FINAL ACCEPTANCE FOR REVIEW AND APPROVAL BY THE CITY ENGINEER. 2. CONSTRUCTION FENCE SHALL BE A MINIMUM OF A 6' HIGH GALVANIZED

SHORING NOTES:

- FENCE. 3. CONSTRUCTION FENCE ADDRESSED IN THESE NOTES IS ONLY FOR 1. A SHORING PERMIT IS REQUIRED FOR ANY VERTICAL CUT OR FILL THAT IS 4'-0" IN VISUAL CONFORMANCE OF THIS CONSTRUCTION SITE TO THE CITY HEIGHT OR OVER. ENGINEERED SHORING PLANS AND CALCULATIONS MUST BE STANDARDS. CONTRACTOR MAY BE REQUIRED TO PROVIDE ADDITIONAL SUBMITTED TO THE BUILDING DIVISION FOR REVIEW AND APPROVAL PER FENCING, BARRICADES OR OTHER SAFETY DEVICES TO KEEP THE SITE SECTION 3301.2 OF THE CBC, THE HOLDER OF A SHORING PERMIT SHALL NOTIFY SECURE AND SAFE. IN WRITING TO ALL ADJOINING PROPERTY OWNERS, NOT LESS THAN 10 DAYS BEFORE SUCH EXCAVATIONS IS TO COMMENCE. AN OSHA PERMIT IS ALSO REQUIRED A COPY OF WHICH SHALL BE SUBMITTED TO THE BUILDING DIVISION
- 2. SHORING CONTRACTOR SHALL NOTIFY THE UNDERGROUND SERVICE ALERT (1-800-422-4133) PRIOR TO ANY EXCAVATION.

CALIFORNIA GREEN BUILDING CODE (CGBC)

- 1. COMPLY WITH SECTION 301.3.2 REGARDING WASTE DIVERSION REQUIRED FOR ALTERATION (T.I.) THAT REQUIRES BUILDING PERMIT.
- 2. COMPLY WITH SECTION 4.408 REGARDING CONSTRUCTION WASTE REDUCTION DISPOSAL AND RECYCLING.

HORIZONTAL CONTROL NOTES:

3. REFER TO ARCHITECTURAL PLANS FOR MORE DIMENSION INFORMATION.

- ALL DIMENSIONS ON THE PLANS ARE IN FEET OR DECIMALS THEREOF UNLESS SPECIFICALLY CALLED OUT AS FEET AND INCHES.
- 2. AN ELECTRONIC FILE WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST FOR THE CONTRACTOR'S SURVEYOR TO LAYOUT THE STAKING PLAN WITH. THE SURVEYOR OR CONTRACTOR WILL NEED TO SIGN A WAIVER FORM BEFORE RELEASE OF ELECTRONIC DRAWINGS IS APPROVED.

PAVEMENT SECTION:

- SEE STRUCTURAL DRAWINGS FOR BUILDING SLAB SECTIONS AND PAD PREPARATIONS.
- 2. SEE GEOTECHNICAL REPORT FOR ALL FLATWORK AND VEHICULAR PAVEMENT SECTIONS AND BASE
- ALL PAVING SHALL BE IN CONFORMANCE WITH THE LATEST GREENBOOK STANDARD SPECIFICATIONS

SITE MAINTENANCE:

- REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET WEATHER.
- 2. SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS. SCRAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEPT MANUALLY.
- CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIALS USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING DISCHARGED INTO THE STORM DRAIN SYSTEM THROUGH EITHER BEING WIND-BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE 4. NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM DRAIN.
 - ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO GUTTERS OR DRAINS.
 - UPON PROJECT COMPLETION THE CLIENT SHALL BE SOLELY RESPONSIBLE TO ROUTINELY INSPECT AND MAINTAIN ALL ON-SITE STORM DRAIN FACILITIES. STORM DRAIN SYSTEM SHALL BE CLEANED AND/OR FLUSHED ON A BIANNUAL BASIS OR AS FOUND NECESSARY.

DUST CONTROL

WATER TRUCKS SHALL BE PRESENT AND IN USE AT THE CONSTRUCTION SITE. ALL PORTIONS OF THE SITE SUBJECT TO BLOWING DUST SHALL BE WATERED AS OFTEN AS DEEMED NECESSARY BY THE CLIENT/INSPECTOR IN ORDER TO INSURE PROPER CONTROL OF BLOWING DUST FOR THE DURATION OF THE PROJECT.

7. THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL MEASURES AND FOR OBTAINING ALL REQUIRED PERMITS AND APPROVALS.

CHAIN LINK WITH GREEN WINDSCREEN FABRIC ON THE OUTSIDE OF THE

GENERAL UTILITY SYSTEM NOTES:

- ALL TRENCHES SHALL BE BACK FILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS BY ALL CONSTRUCTION ON OFF-SITE OR ON-SITE IMPROVEMENTS SHALL ADHERE TO NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) BEST MANAGEMENT PRACTICES TO THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES. PREVENT DELETERIOUS MATERIALS OR POLLUTANTS FROM ENTERING THE CITY OR COUNTY 2. CLEAN OUTS, CATCH BASINS AND AREA DRAINS ARE TO BE ACCURATELY LOCATED BY THEIR STORM DRAIN SYSTEMS.
- RELATIONSHIP TO THE BUILDING, FLATWORK, ROOF DRAINS, AND/OR CURB LAYOUT, NOT BY THE LENGTH OF PIPE SPECIFIED IN THE DRAWINGS (WHICH IS APPROXIMATE)
- CONTRACTOR SHALL STAKE LOCATION OF ABOVE GROUND UTILITY EQUIPMENT (BACKFLOW PREVENTOR, SATELLITE DISH, TRANSFORMER, GAS METER, ETC.) AND MEET WITH CLIENT TO REVIEW LOCATION PRIOR TO INSTALLATION. PLANNING DEPARTMENT MUST SPECIFICALLY AGREE WITH LOCATION PRIOR TO PROCEEDING WITH THE INSTALLATION.
- CONTRACTOR SHALL PREPARE AN ACCURATE COMPOSITE UTILITY PLAN THAT TAKES INTO 4. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH ACCOUNT THE ACTUAL LOCATION OF EXISTING UTILITIES AS DETERMINED DURING THE DEMOLITION THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED WORK, THE UTILITIES SHOWN ON THE CIVIL DRAWINGS, AND THE SITE POWER, CONDUITS AND STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED U IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE LIGHTING SHOWN ON THE ELECTRICAL PLANS. THE FIRE SPRINKLER SYSTEM SHALL BE INCLUDED AS DESIGNED BY THE DESIGN/BUILD UNDERGROUND FIRE SPRINKLER CONTRACTOR. DRAINAGE SYSTEM.
- CATHODIC PROTECTION MAY BE REQUIRED ON ALL METALLIC FITTINGS AND ASSEMBLIES THAT ARE EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC RIGHT-OF-WAY OR ANY 5. IN CONTACT WITH THE SOIL, IF RECOMMENDED BY THE GEOTECHNICAL REPORT. CONTRACTOR IS OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE RESPONSIBLE TO FULLY ENGINEER AND INSTALL THIS SYSTEM AND COORDINATE ANODE AND TEST UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE STATION LOCATIONS WITH OWNER'S PROJECT MANAGER.
- TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED COMPLETE SYSTEMS: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE RECEPTACLE TO PREVENT CONTAMINATION AND DISPERSAL BY WIND. PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
- FROM BEING DEPOSITED INTO THE PUBLIC RIGHT-OF-WAY. ACCIDENTAL DEPOSITIONS MUST BE UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AND SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS. EXTENT BASED UPON RECORD INFORMATION. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CLIENT, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND TO HOLD UNDERSIGNED HARMLESS FOR INHIBIT EROSION BY WIND AND WATER. ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES 9. CLEAN UP ALL SPILLS USING DRY METHODS. NOT REPORTED TO THE UNDERSIGNED; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, LOCATED AT VARIANCE WITH THOSE REPORTED OR SHOWN ON RECORDS EXAMINED.
- CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY LEAVING CONSTRUCTION SITE. SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND 11. CALL 911 IN CASE OF A HAZARDOUS SPILL SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT 12. BMP'S AS OUTLINED IN, BUT NOT LIMITED TO, CALIFORNIA STORM WATER QUALITY TASK FORCE, SACRAMENTO, CALIFORNIA, JANUARY 2003, OR THE LATEST REVISED EDITION, MAY APPLY DURING AND WORKS UP STREAM. HE SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED ADJUSTMENTS NECESSARY. CONTRACTOR SHALL VERIFY LOCATION OF SANITARY SEWER LATERAL WITH OWNER PRIOR TO CONSTRUCTION. APPROPRIATE BY CITY INSPECTORS).
- 13. UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE SHALL BE CLEANED BY EXISTING UTILITY CROSSINGS OF NEW PIPELINE ARE SHOWN ACCORDING TO THE BEST AVAILABLE THE CONTRACTOR AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF INFORMATION. GAS, WATER AND SEWER SERVICE LATERALS ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, LOCATION AND DEPTH CONSTRUCTION WASTE, RUBBISH, AND DEBRIS OF ANY NATURE. OF ALL THE UTILITY CROSSING (BOTH MAINS AND LATERALS) ARE CORRECT AS SHOWN. NO GUARANTEE IS MADE THAT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND SHALL PROTECT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) FROM DAMAGE DUE TO HIS OPERATION.
- 10. VERTICAL SEPARATION REQUIREMENTS:

A MINIMUM OF SIX (6) INCHES VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN CROSSING UTILITY PIPES, EXCEPT THAT THE MINIMUM VERTICAL CLEARANCE BETWEEN WATER AND SANITARY SEWER PIPELINES SHALL BE 12 INCHES AND ALL NEW WATER PIPES SHALL BE TYPICALLY INSTALLED TO CROSS ABOVE/OVER EXISTING SANITARY SEWER PIPELINES.

WHERE NEW WATER PIPELINES ARE REQUIRED TO CROSS UNDER EXISTING AND/OR NEW SANITARY SEWER PIPELINES. THE MINIMUM VERTICAL SEPARATION SHALL BE 12 INCHES WATER LINE PIPE ENDS SHALL BE INSTALLED NO CLOSER THAN 10' MINIMUM HORIZONTAL DISTANCE FROM CENTERLINE OF UTILITY CROSSINGS, WHERE FEASIBLE.

11. HORIZONTAL SEPARATION REQUIREMENTS:

A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND ANY EXISTING UTILITIES SHALL BE 5' FEET. EXCEPT THAT THE MINIMUM HORIZONTAL SEPARATION FOR WATER AND SANITARY SEWER PIPELINES SHALL BE 10' MINIMUM, UNLESS OTHERWISE NOTED.

A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND JOINT TRENCH SHALL BE 5 FEET.

- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES AND REQUESTING VERIFICATION OF SERVICE POINTS, FIELD VERIFICATION OF LOCATION, SIZE, DEPTH, ETC. FOR ALL THEIR FACILITIES AND TO COORDINATE WORK SCHEDULES.
- 13. ANY EXISTING UNDERGROUND UTILITY LINES TO BE ABANDONED, SHOULD BE REMOVED FROM WITHIN THE PROPOSED BUILDING ENVELOPE AND THEIR ENDS CAPPED OUTSIDE OF THE BUILDING ENVELOPE.

STORM DRAIN MAINTENANCE NOTES:

PLEASE NOTE THAT REGULAR MAINTENANCE ON GRADING AND DRAINAGE STRUCTURES IS REQUIRED TO ENSURE FUNCTIONALITY THROUGHOUT THE LIFE OF THE PROPERTY. MAINTENANCE SHOULD INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- 1. THE CLEARING OF DEBRIS AND SEDIMENTS FROM THE STORM DRAIN SYSTEM AND DRAINAGE BASINS
- 2. ROOF GUTTERS AND DOWNSPOUTS SHOULD BE CLEARED BEFORE THE BEGINNING OF EACH RAINY SEASON AND AS NEEDED THROUGHOUT THE WINTER MONTHS.
- 3. FOUNDATION SUBDRAINS SHOULD BE INSPECTED VIA CLEANOUTS ONCE EVERY 5 YEARS AND SNAKED AS NEEDED TO CLEAR DEBRIS.
- 4. SURFACE GRADING MAY ALSO REQUIRE CONTINUED REFINEMENT TO MINIMIZE PONDING, MAINTAIN POSITIVE DRAINAGE AWAY FROM IMPROVEMENTS AND PROTECT AGAINST EROSION.

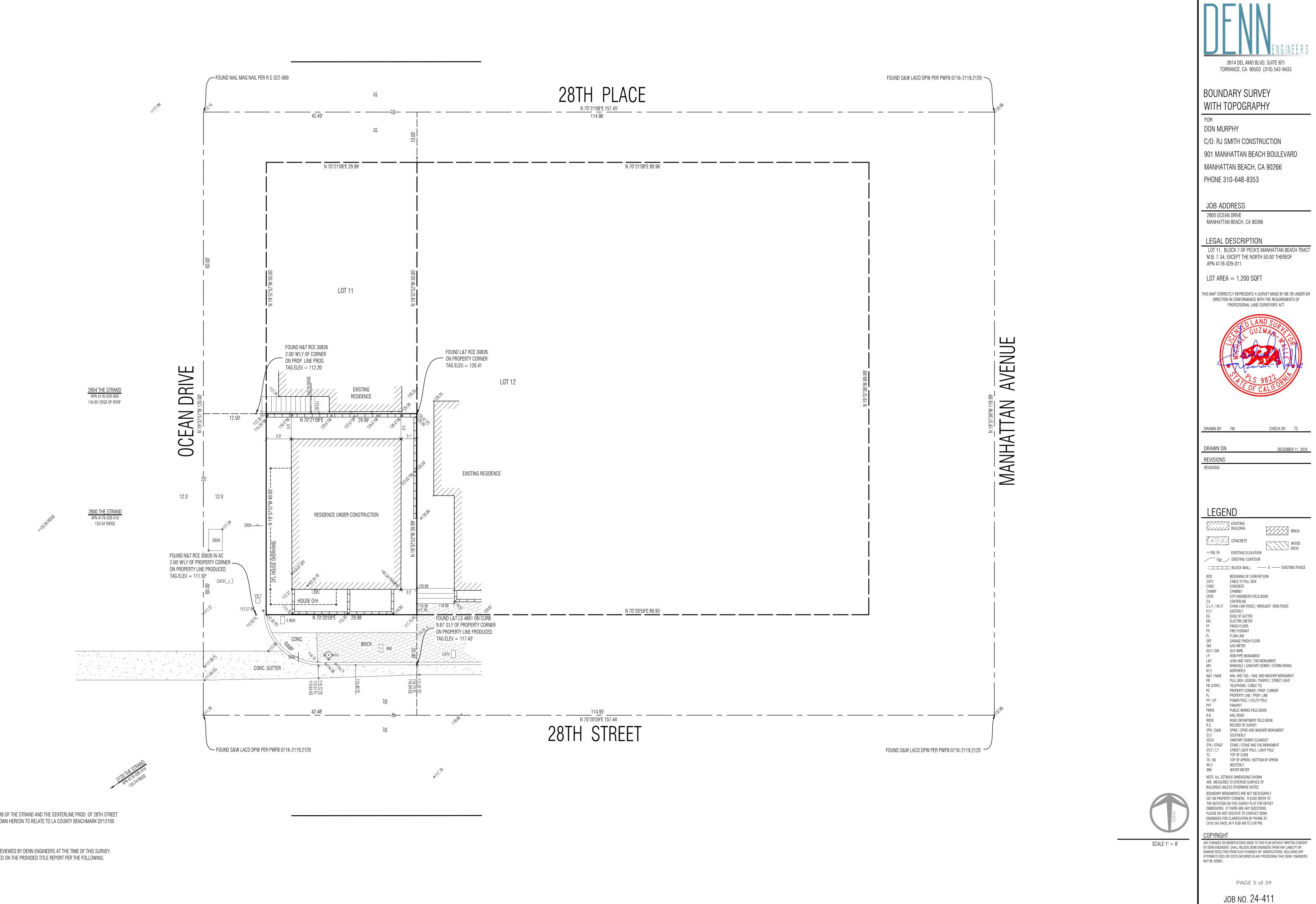
NPDES REQUIREMENTS:

- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS
- 10. SWEEP ALL GUTTERS AT THE END OF EACH WORKING DAY, GUTTERS SHALL BE KEPT CLEAN AFTER



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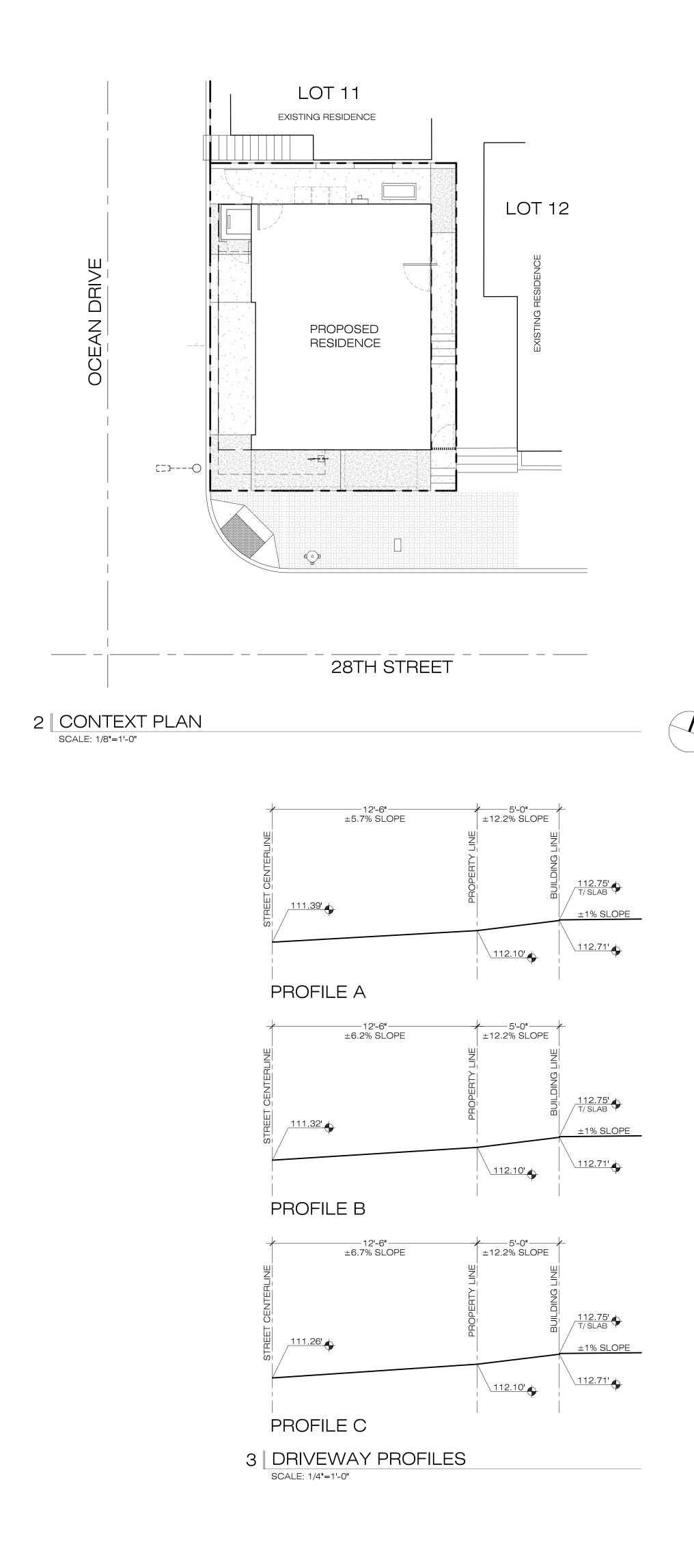
ASSUMED BENCHMARK ELEVATION 99.18'

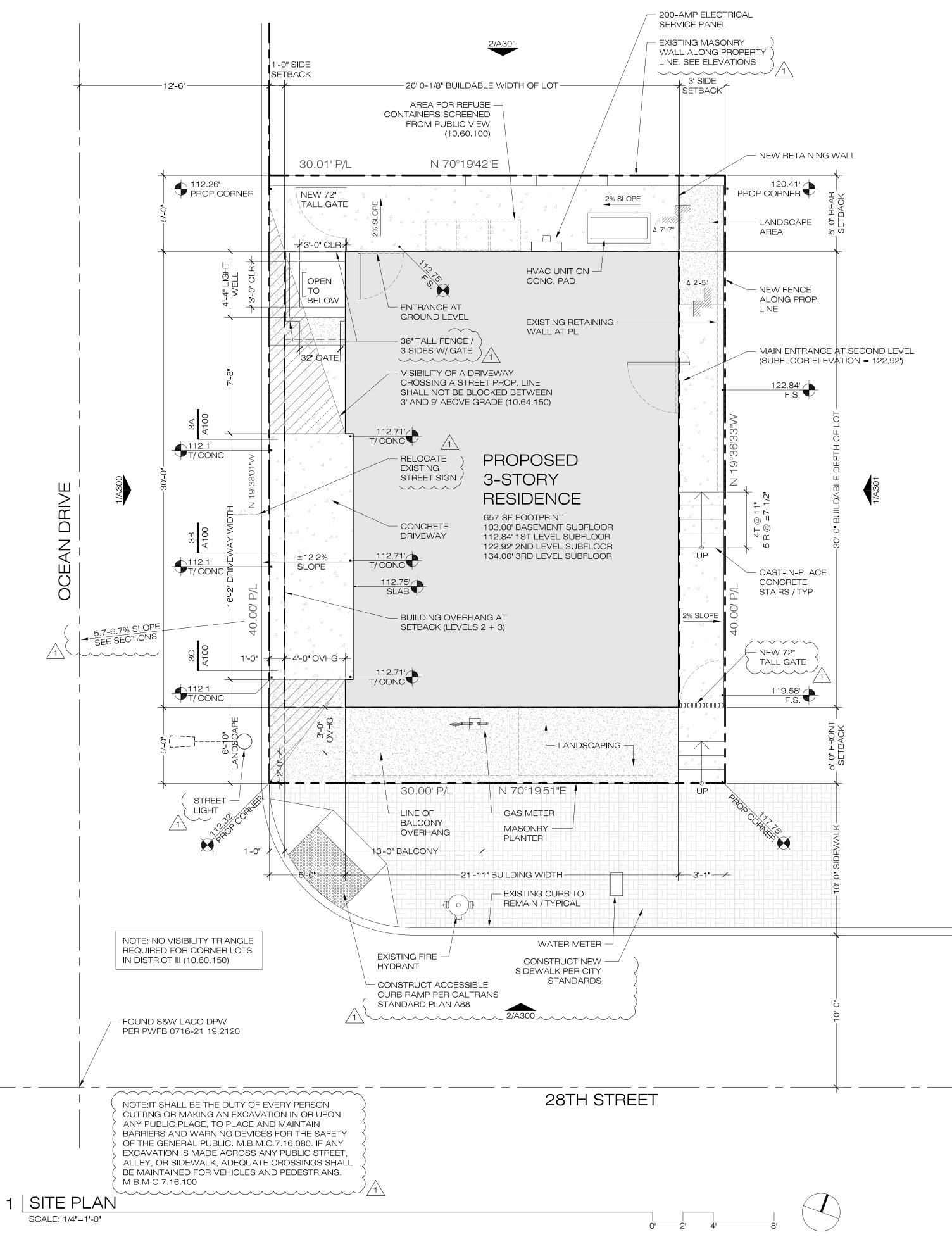
FOUND L&T WITH DPW TAG IN THE E'LY CURB OF THE STRAND AND THE CENTERLINE PROD. OF 28TH STREET SUBTRACT TO 65.16' FROM ELEVATIONS SHOWN HEREON TO RELATE TO LA COUNTY BENCHMARK QY12100 (ELEVATION 34.017' / 2013 QUAD YEAR)

A TITLE POLICY HAS BEEN PROVIDED AND REVIEWED BY DENN ENGINEERS AT THE TIME OF THIS SURVEY. NO PLOTTABLE EASEMENTS WERE IDENTIFIED ON THE PROVIDED TITLE REPORT PER THE FOLLOWING:

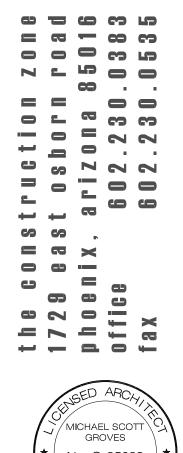
PROGRESSIVE TITLE COMPANY ORDER NO. PR1711296 DATED JULY 24, 2017

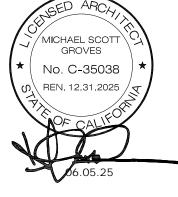
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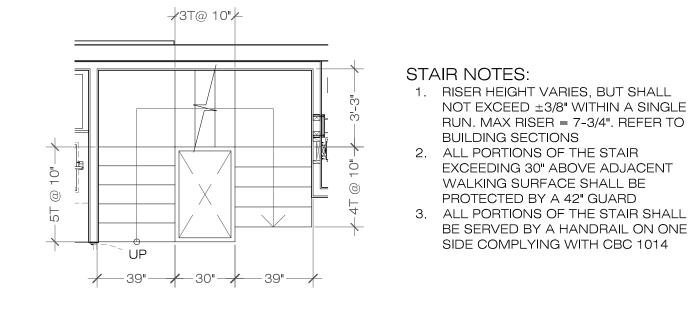




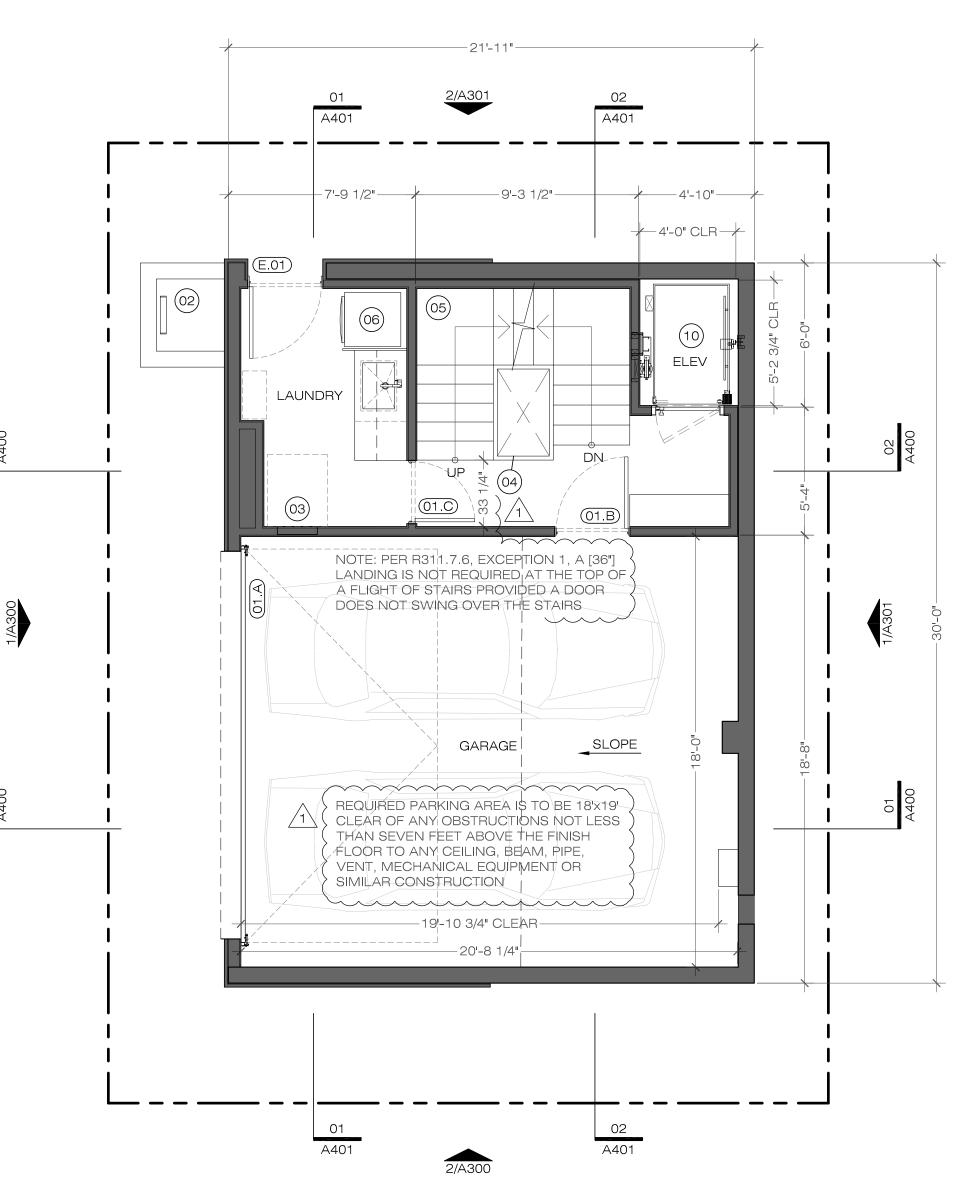




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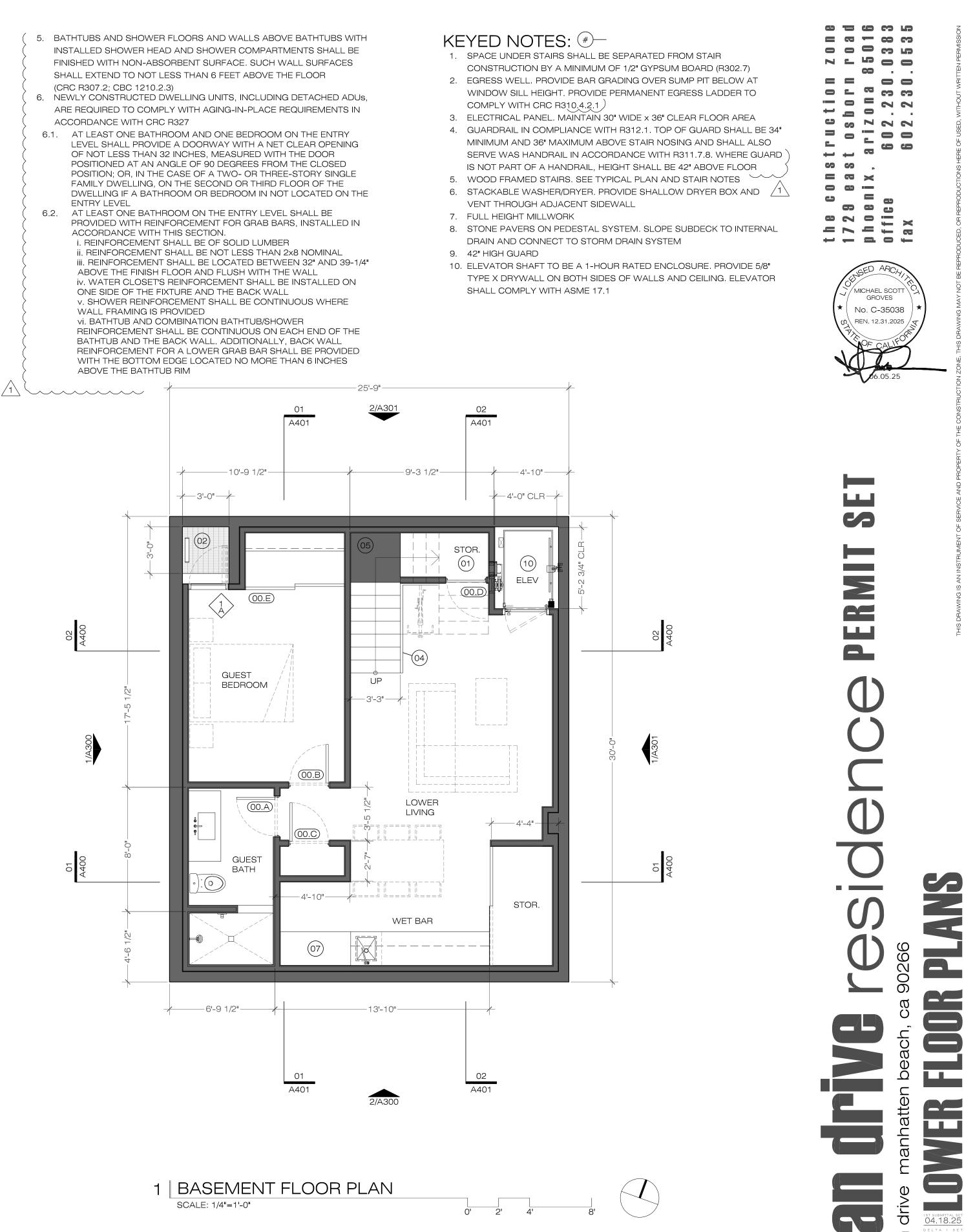
2 GROUND FLOOR PLAN SCALE: 1/4"=1'-0"

- FLOOR PLAN NOTES: 1. ALL DOMESTIC HOT WATER SYSTEM PIPING LISTED BELOW, WHETHER BURIED OR UNBURIED, MUST BE INSULATED AND THE INSULATION THICKNESS SHALL BE SELECTED BASED ON THE CONDUCTIVITY RANGE ON TABLE 120.3-A AND THE INSULATION LEVEL SHALL BE SELECTED
 - FROM THE FLUID TEMPERATURE RANGE BASE ON THE THICKNESS REQUIREMENTS IN TABLE 120.3-A:
 - A. THE FIRST FIVE FEET OF HOT AND COLD WATER PIPES FROM STORAGE TANKS
 - B. ALL PIPING WITH A NOMINAL DIAMETER OF 3/4" OR LARGER ALL PIPING ASSOCIATED WITH A DOMESTIC HOT WATER С RECIRCULATION SYSTEM REGARDLESS OF THE PIPE
 - DIAMETER D. PIPING FROM THE HEATING SOURCE TO STORAGE TANK OR BETWEEN TANKS
 - PIPING BURIED BELOW GRADE
 - ALL HOT WATER PIPES FROM THE HEATING SOURCE TO THE KITCHEN FIXTURES
- 2. PLUMBING FIXTURES SHALL MEET THE FOLLOWING MAXIMUM WATER USAGE RATES (CPC, CHAPTER 4)
- SHOWERHEADS / 1.8 GPM AT 80 PSI LAVATORY FAUCETS / 1.2 GPM AT 60 PSI KITCHEN FAUCETS / 1.8 GPM AT 80 PSI

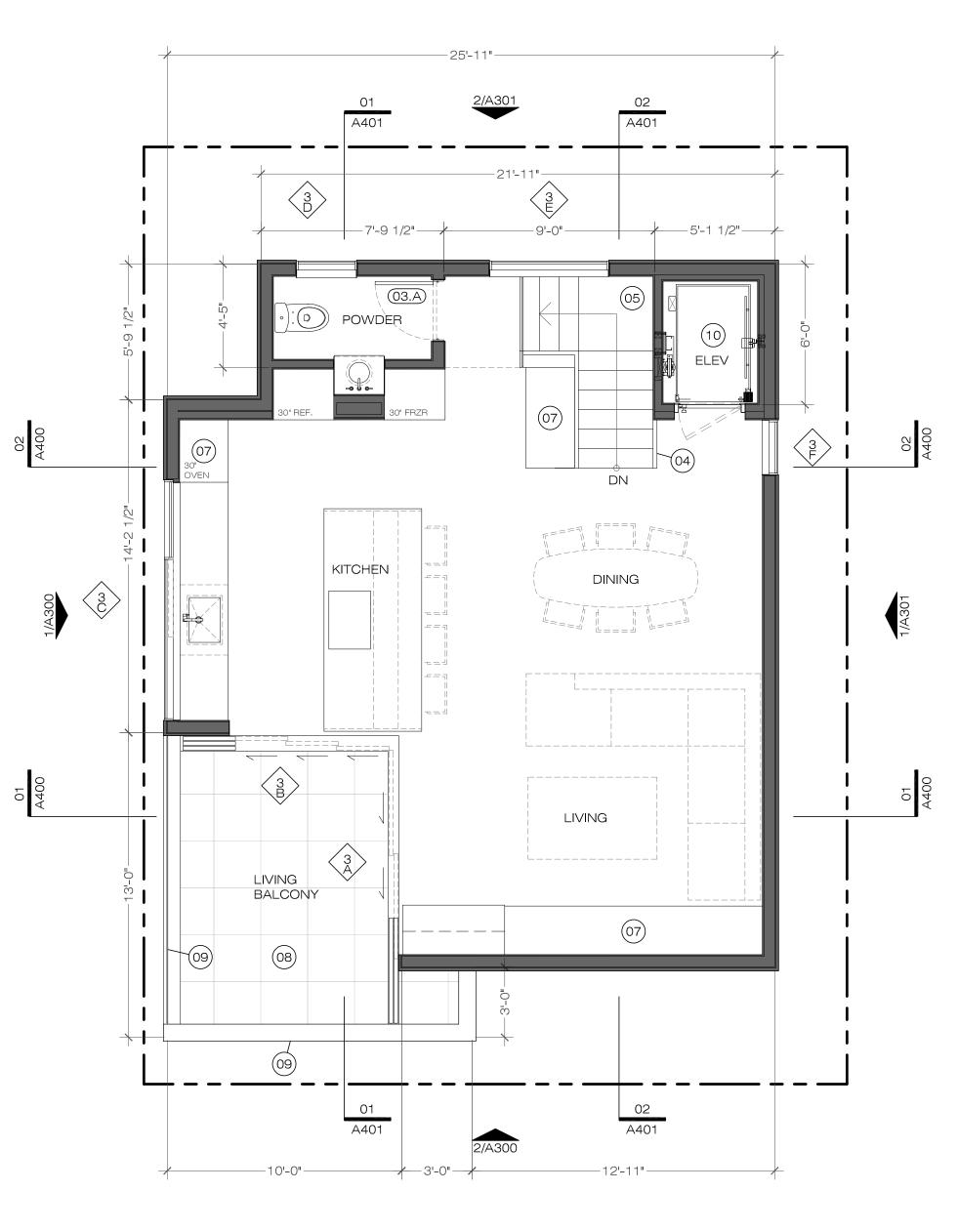
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- _ WATER CLOSETS / 1.28 GAL PER FLUSH 3. GARAGE FLOOR TO BE SLOPED TOWARDS THE DOOR TO FACILITATE
- THE MOVEMENT OF LIQUIDS PER SECTION R309.1 4. AUTOMATIC GARAGE DOOR OPENER REQUIRES BACKUP BATTERIES
- INSTALLED PER SB 969

- SHALL EXTEND TO NOT LESS THAN 6 FEET ABOVE THE FLOOR
- ACCORDANCE WITH CRC R327
- ENTRY LEVEL
- 6.2. AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE ACCORDANCE WITH THIS SECTION.
 - ABOVE THE FINISH FLOOR AND FLUSH WITH THE WALL ONE SIDE OF THE FIXTURE AND THE BACK WALL
 - WALL FRAMING IS PROVIDED vI. BATHTUB AND COMBINATION BATHTUB/SHOWER



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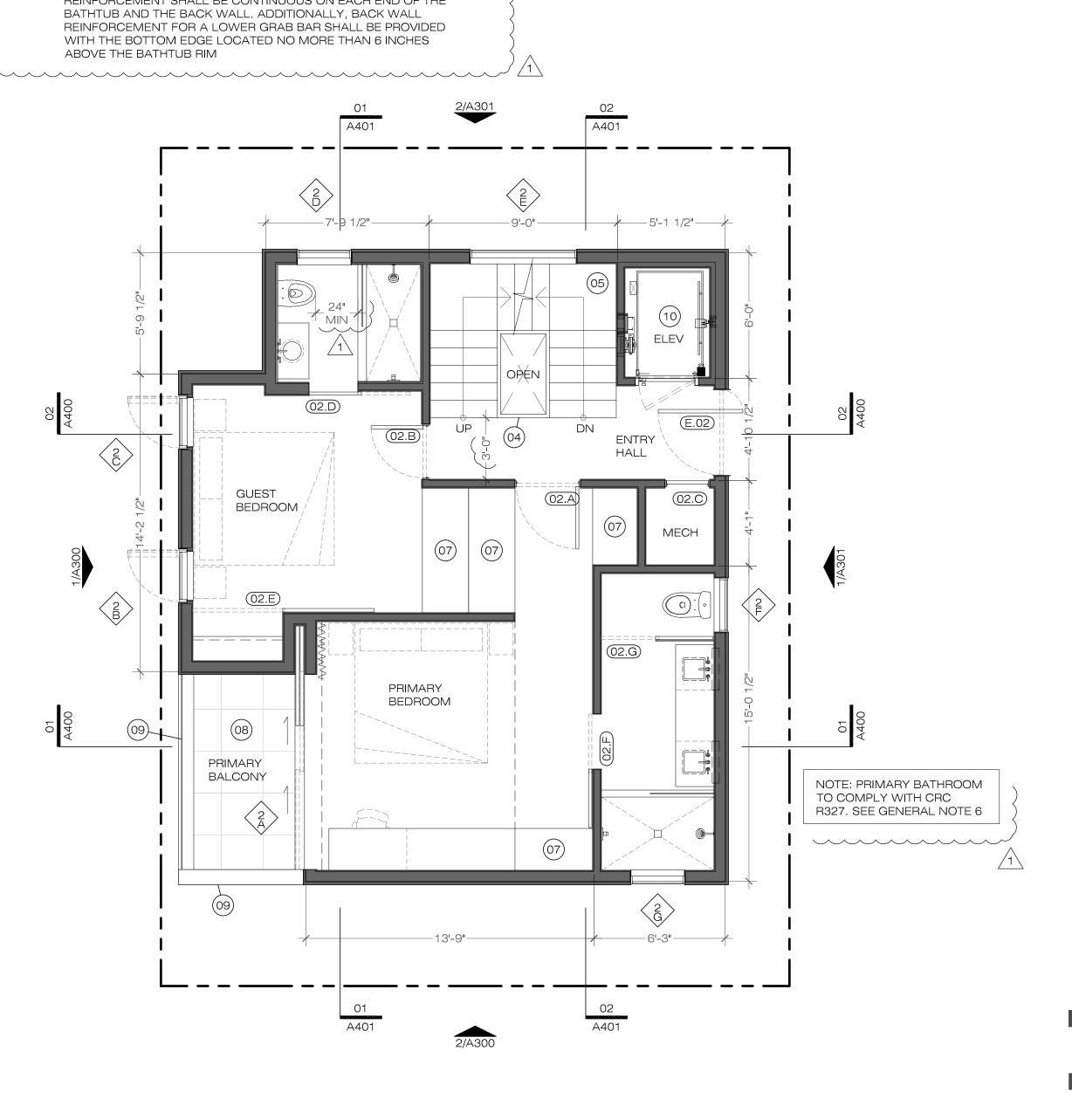
2 THIRD FLOOR PLAN SCALE: 1/4"=1'-0"

FLOOR PLAN NOTES:

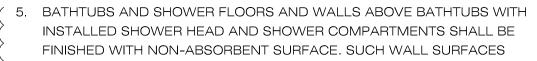
1. ALL DOMESTIC HOT WATER SYSTEM PIPING LISTED BELOW, WHETHER BURIED OR UNBURIED, MUST BE INSULATED AND THE INSULATION THICKNESS SHALL BE SELECTED BASED ON THE CONDUCTIVITY RANGE ON TABLE 120.3-A AND THE INSULATION LEVEL SHALL BE SELECTED FROM THE FLUID TEMPERATURE RANGE BASE ON THE THICKNESS REQUIREMENTS IN TABLE 120.3-A:

- A. THE FIRST FIVE FEET OF HOT AND COLD WATER PIPES FROM STORAGE TANKS
- B. ALL PIPING WITH A NOMINAL DIAMETER OF 3/4" OR LARGER C. ALL PIPING ASSOCIATED WITH A DOMESTIC HOT WATER RECIRCULATION SYSTEM REGARDLESS OF THE PIPE
- DIAMETER D. PIPING FROM THE HEATING SOURCE TO STORAGE TANK OR
- BETWEEN TANKS
- PIPING BURIED BELOW GRADE F. ALL HOT WATER PIPES FROM THE HEATING SOURCE TO THE
- KITCHEN FIXTURES 2. PLUMBING FIXTURES SHALL MEET THE FOLLOWING MAXIMUM WATER USAGE RATES (CPC, CHAPTER 4)
- SHOWERHEADS / 1.8 GPM AT 80 PSI
- LAVATORY FAUCETS / 1.2 GPM AT 60 PSI - KITCHEN FAUCETS / 1.8 GPM AT 80 PSI
- WATER CLOSETS / 1.28 GAL PER FLUSH
- 3. GARAGE FLOOR TO BE SLOPED TOWARDS THE DOOR TO FACILITATE THE MOVEMENT OF LIQUIDS PER SECTION R309.1
- 4. AUTOMATIC GARAGE DOOR OPENER REQUIRES BACKUP BATTERIES INSTALLED PER SB 969

- INSTALLED SHOWER HEAD AND SHOWER COMPARTMENTS SHALL BE FINISHED WITH NON-ABSORBENT SURFACE. SUCH WALL SURFACES SHALL EXTEND TO NOT LESS THAN 6 FEET ABOVE THE FLOOR (CRC R307.2, CBC 1210.2.3) NEWLY CONSTRUCTED DWELLING UNITS, INCLUDING DETACHED ADUS,
- ARE REQUIRED TO COMPLY WITH AGING-IN-PLACE REQUIREMENTS IN ACCORDANCE WITH CRC R327
- 6.1. AT LEAST ONE BATHROOM AND ONE BEDROOM ON THE ENTRY LEVEL SHALL PROVIDE A DOORWAY WITH A NET CLEAR OPENING OF NOT LESS THAN 32 INCHES, MEASURED WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM THE CLOSED POSITION; OR, IN THE CASE OF A TWO- OR THREE-STORY SINGLE FAMILY DWELLING, ON THE SECOND OR THIRD FLOOR OF THE DWELLING IF A BATHROOM OR BEDROOM IN NOT LOCATED ON THE ENTRY LEVEL
- 6.2. AT LEAST ONE BATHROOM ON THE ENTRY LEVEL SHALL BE PROVIDED WITH REINFORCEMENT FOR GRAB BARS, INSTALLED IN ACCORDANCE WITH THIS SECTION.
 - I. REINFORCEMENT SHALL BE OF SOLID LUMBER ii, REINFORCEMENT SHALL BE NOT LESS THAN 2x8 NOMINAL iii. REINFORCEMENT SHALL BE LOCATED BETWEEN 32" AND 39-1/4" ABOVE THE FINISH FLOOR AND FLUSH WITH THE WALL IV. WATER CLOSET'S REINFORCEMENT SHALL BE INSTALLED ON ONE SIDE OF THE FIXTURE AND THE BACK WALL V. SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE
 - WALL FRAMING IS PROVIDED vI. BATHTUB AND COMBINATION BATHTUB/SHOWER
 - REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE



1 SECOND FLOOR PLAN SCALE: 1/4"=1'-0"



1. SPACE UNDER STAIRS SHALL BE SEPARATED FROM STAIR CONSTRUCTION BY A MINIMUM OF 1/2" GYPSUM BOARD (R302.7)

- 2. EGRESS WELL. PROVIDE BAR GRADING OVER SUMP PIT BELOW AT WINDOW SILL HEIGHT. PROVIDE PERMANENT EGRESS LADDER TO COMPLY WITH CRC R310.4.2.1
- 3. ELECTRICAL PANEL. MAINTAIN 30" WIDE x 36" CLEAR FLOOR AREA 4. GUARDRAIL IN COMPLIANCE WITH R312.1. TOP OF GUARD SHALL BE 34" MINIMUM AND 36" MAXIMUM ABOVE STAIR NOSING AND SHALL ALSO SERVE WAS HANDRAIL IN ACCORDANCE WITH R311.7.8. WHERE GUARD IS NOT PART OF A HANDRAIL, HEIGHT SHALL BE 42" ABOVE FLOOR
- 5. WOOD FRAMED STAIRS. SEE TYPICAL PLAN AND STAIR NOTES 6. STACKABLE WASHER/DRYER. PROVIDE SHALLOW DRYER BOX AND VENT THROUGH ADJACENT SIDEWALL
- 7. FULL HEIGHT MILLWORK
- 8. STONE PAVERS ON PEDESTAL SYSTEM. SLOPE SUBDECK TO INTERNAL DRAIN AND CONNECT TO STORM DRAIN SYSTEM 9. 42" HIGH GUARD
- 10. ELEVATOR SHAFT TO BE A 1-HOUR RATED ENCLOSURE. PROVIDE 5/8" TYPE X DRYWALL ON BOTH SIDES OF WALLS AND CEILING. ELEVATOR SHALL COMPLY WITH ASME 17.1



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MICHAEL SCOTT

GROVES

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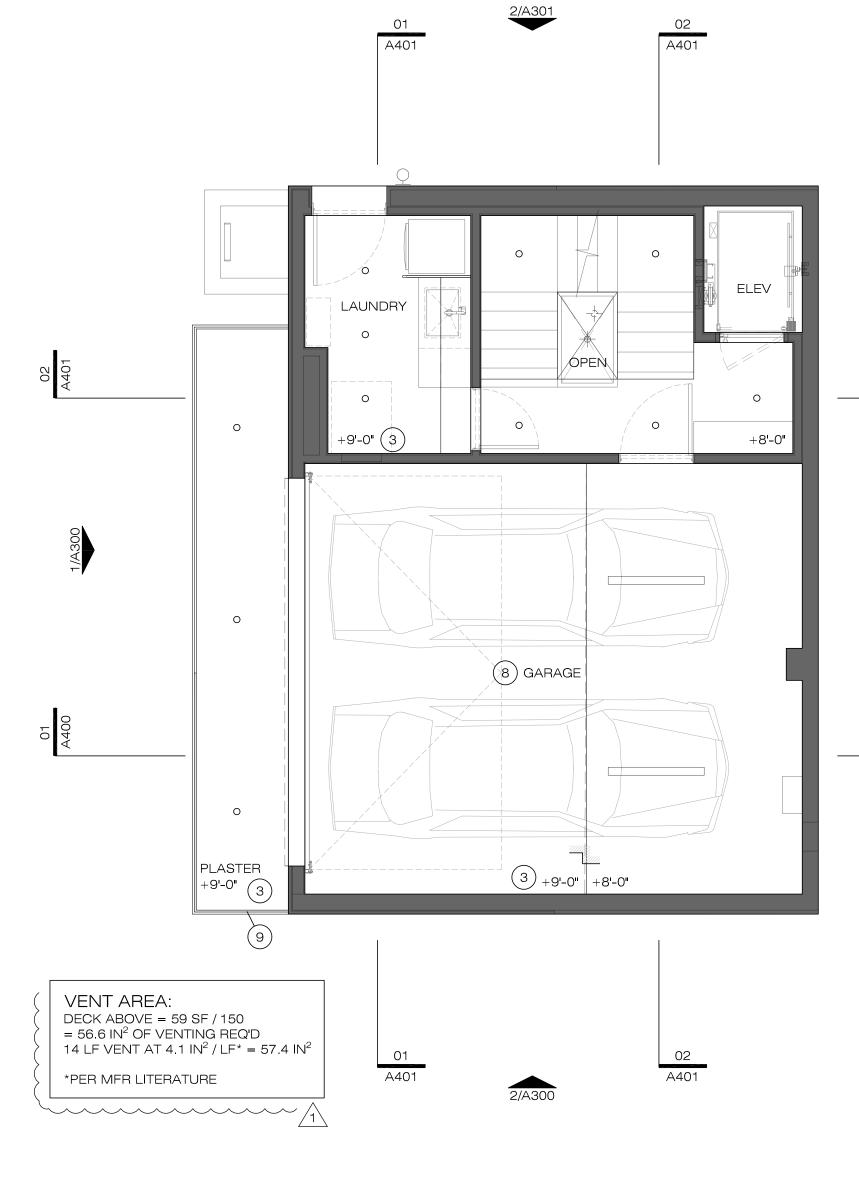
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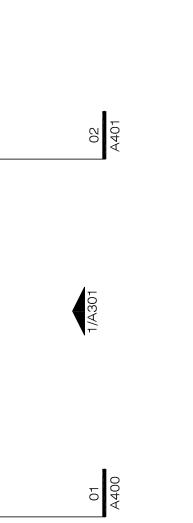
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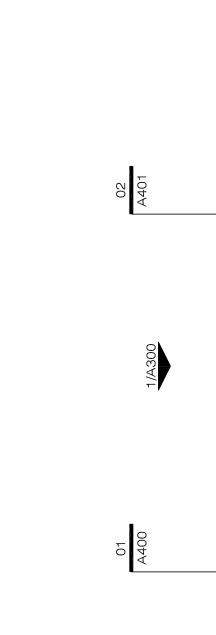
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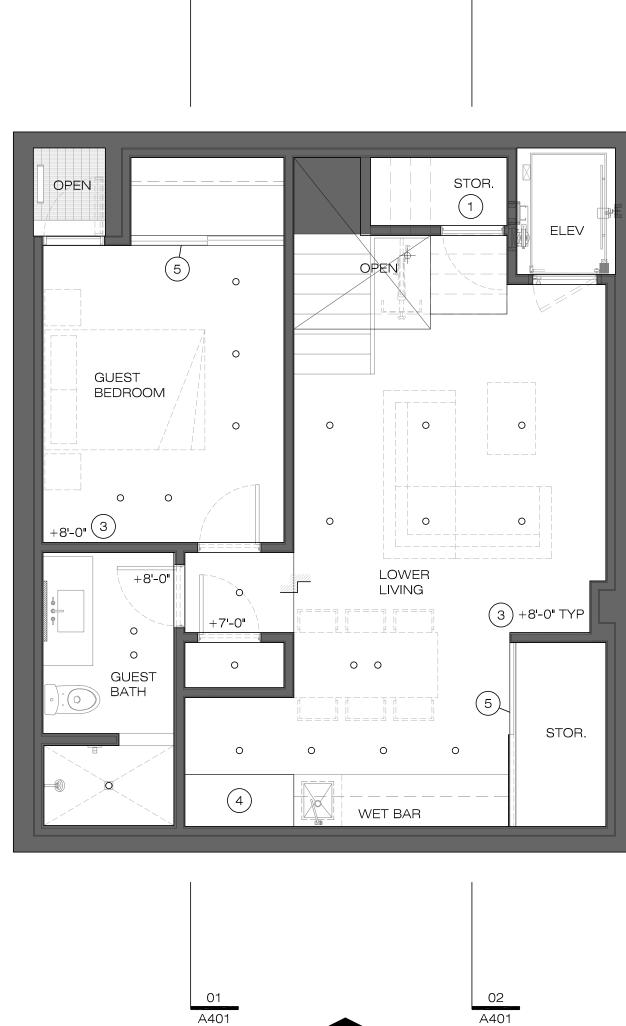




2 GROUND FLOOR CEILING PLAN SCALE: 1/4"=1'-0"







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1 BASEMENT CEILING PLAN SCALE: 1/4"=1'-0"

CEILING PLAN NOTES:

- 1. ALL CEILINGS TO BE PAINTED 5/8" GYPSUM BOARD, U.N.O. 2. REFER TO LIGHTING PLANS FOR FIXTURE TYPES
- 3. ALL CEILING HEIGHTS TO BE VERIFIED BY GENERAL CONTRACTOR RELATIVE TO PLUMBING, HVAC, SPRINKLER PIPES AND ANY OTHER BUILDING SYSTEMS THAT MUST BE ACCOMMODATED WITHIN THE FLOOR/CEILING ASSEMBLIES.

- 1. SPACE UNDER STAIRS SHALL BE SEPARATED FROM STAIR
- CONSTRUCTION BY A MINIMUM OF 1/2" GYPSUM BOARD (R302.7) 2. FUR DOWN EXTERIOR SOFFIT AT MINIMUM HEIGHT REQUIRED TO ACCOMMODATE DRAINAGE PIPES. ENTIRE SOFFIT TO BE AT ONE ELEVATION.
- 3. FINISHED CEILING TIGHT TO FLOOR/ROOF FRAMING ABOVE
- 4. FULL HEIGHT MILLWORK [BELOW] 5. SLIDING DOOR TRACK
- 6. CURTAIN ON TRACK MOUNTED FLUSH TO CEILING
- 7. FLUSH MOUNT ISLAND VENT HOOD
- 8. HORIZONTAL ASSEMBLY BETWEEN GARAGE AND LIVING AREA ABOVE SHALL BE PROTECTED BY A 5/8" TYPE X GYPSUM BOARD CEILING 9. CONTINUOUS LINEAR VENT. JOTO-VENT 2" REVEAL VENT OR EQ. SEE
- CALCULATIONS BELOW FOR VENT AREA 10. PERFORATED SOFFIT VENT. VULCAN VENT VSC120FF OR EQ. SEE
- CALCULATIONS BELOW FOR VENT AREA

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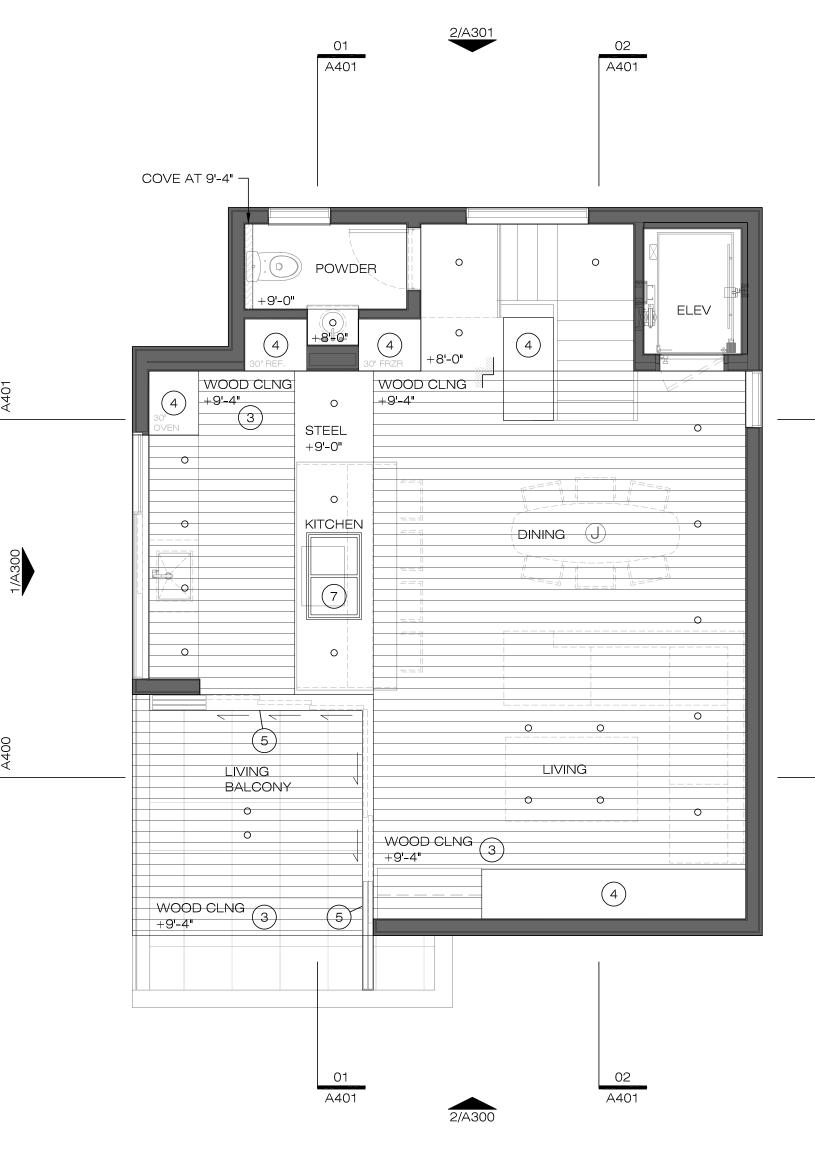


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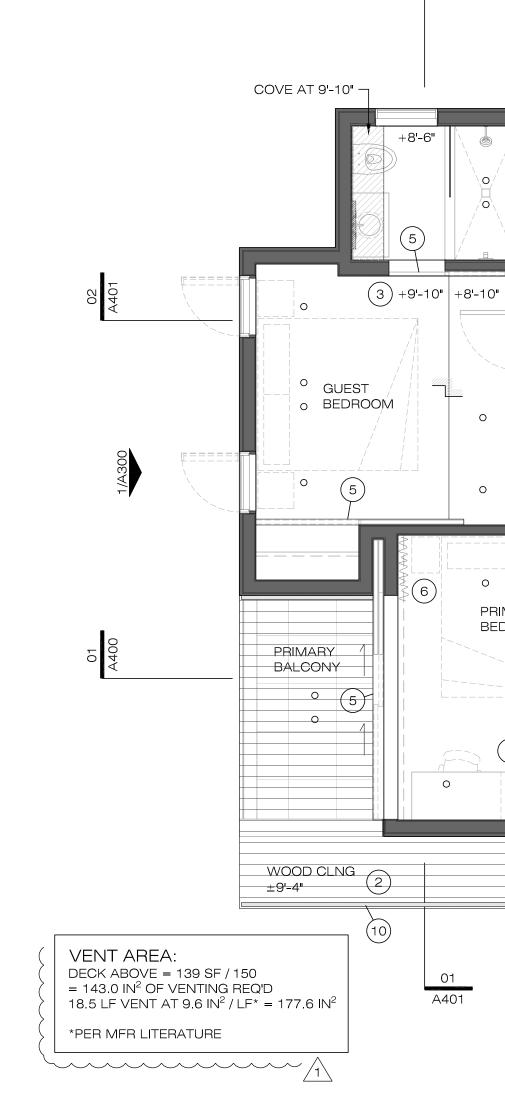
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2 THIRD FLOOR CEILING PLAN SCALE: 1/4"=1'-0"





1 | SECOND FLOOR CEILING PLAN SCALE: 1/4"=1'-0"

CEILING PLAN NOTES:

- 1. ALL CEILINGS TO BE PAINTED 5/8" GYPSUM BOARD, U.N.O. 2. REFER TO LIGHTING PLANS FOR FIXTURE TYPES
- 3. ALL CEILING HEIGHTS TO BE VERIFIED BY GENERAL CONTRACTOR RELATIVE TO PLUMBING, HVAC, SPRINKLER PIPES AND ANY OTHER BUILDING SYSTEMS THAT MUST BE ACCOMMODATED WITHIN THE FLOOR/CEILING ASSEMBLIES.

KEYED NOTES: (#)---

- 1. SPACE UNDER STAIRS SHALL BE SEPARATED FROM STAIR
- CONSTRUCTION BY A MINIMUM OF 1/2" GYPSUM BOARD (R302.7) 2. FUR DOWN EXTERIOR SOFFIT AT MINIMUM HEIGHT REQUIRED TO ACCOMMODATE DRAINAGE PIPES. ENTIRE SOFFIT TO BE AT ONE ELEVATION.
- 3. FINISHED CEILING TIGHT TO FLOOR/ROOF FRAMING ABOVE
- 4. FULL HEIGHT MILLWORK [BELOW] 5. SLIDING DOOR TRACK

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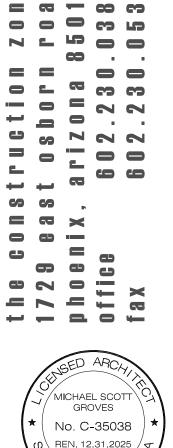
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- 6. CURTAIN ON TRACK MOUNTED FLUSH TO CEILING
- 7. FLUSH MOUNT ISLAND VENT HOOD
- 8. HORIZONTAL ASSEMBLY BETWEEN GARAGE AND LIVING AREA ABOVE SHALL BE PROTECTED BY A 5/8" TYPE X GYPSUM BOARD CEILING
- 9. CONTINUOUS LINEAR VENT. JOTO-VENT 2" REVEAL VENT OR EQ. SEE CALCULATIONS BELOW FOR VENT AREA 10. PERFORATED SOFFIT VENT. VULCAN VENT VSC120FF OR EQ. SEE
- CALCULATIONS BELOW FOR VENT AREA /1)

A401 EXP. STL PLATE +11'-0" ELEV 0 0 0 (з) ENTRY HALL +9'-10" +9'-10" +8'-10" +8'-1" 0 0 MECH COVE AT 9'-10" (4)(4)0 +9'-4" _ o):(0 0 0 PRIMARY BEDROOM (5)+9'-4" 0 3 +9'-10" +8'-1" 0 0 (4)02 A401 2/A300



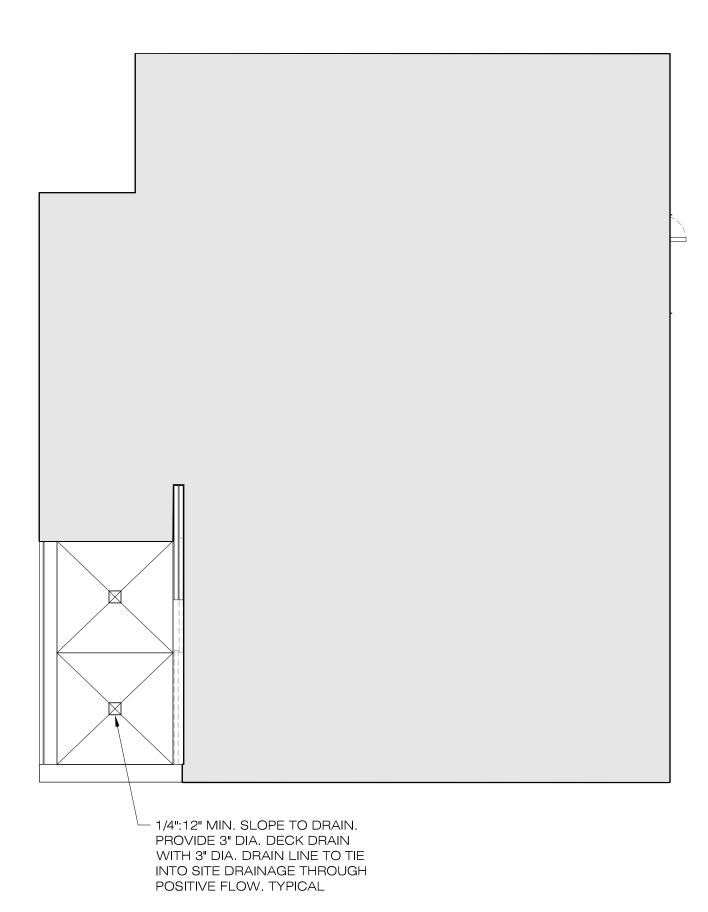
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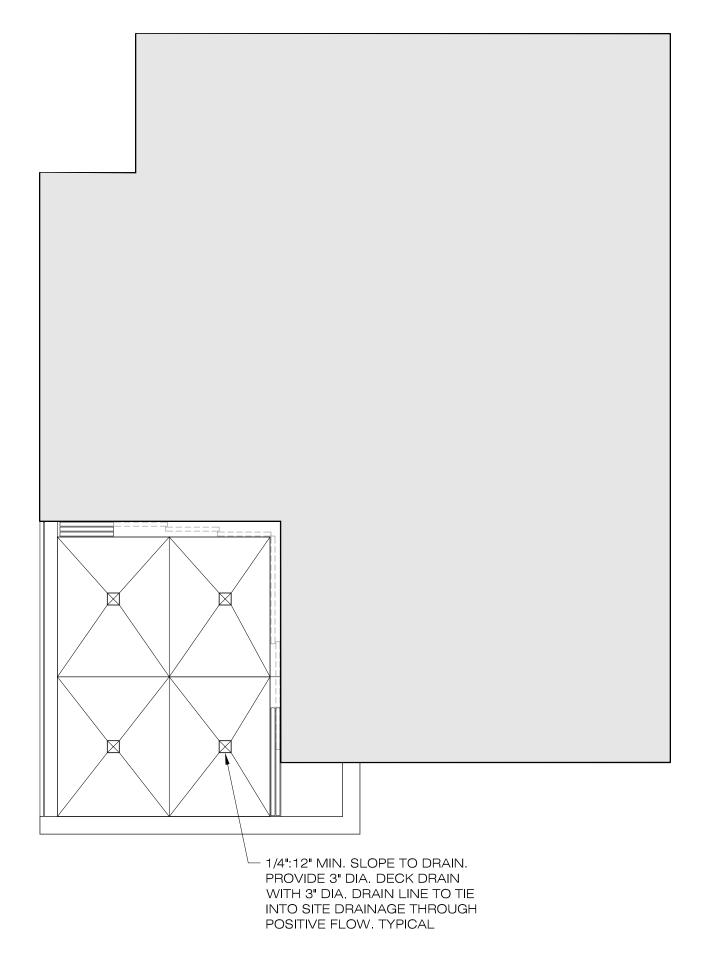
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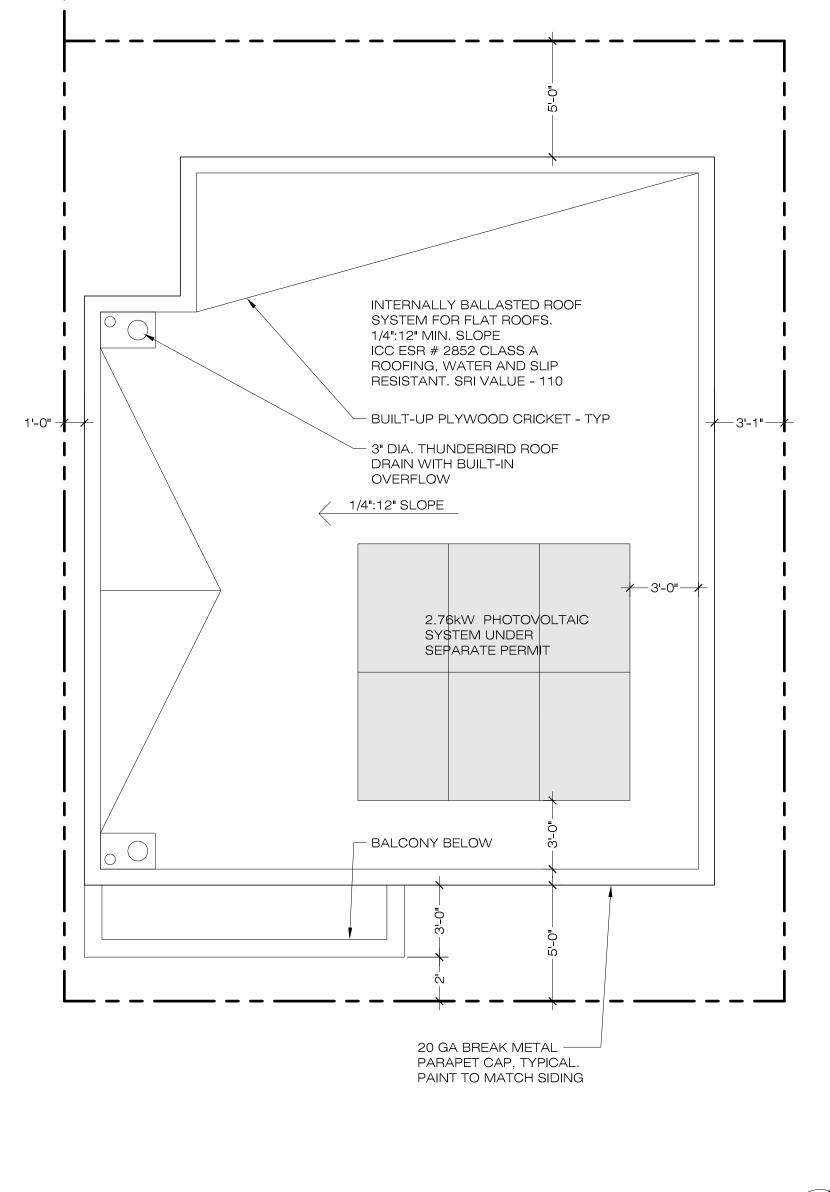




3 SECOND FLOOR PATIO PLAN SCALE: 1/4"=1'-0"



2 | THIRD FLOOR PATIO PLAN SCALE: 1/4"=1'-0"



1 | ROOF PLAN SCALE: 1/4"=1'-0"

ROOF GENERAL NOTES:

- 1. ALL ROOF DRAINAGE TO BE CONNECTED INTO SITE DRAINAGE LINE AND DRAIN THROUGH POSITIVE FLOW
- 2. UNVENTED ROOF ASSEMBLY AND ENCLOSED RAFTER
- SPACES SHALL COMPLY WITH CRC R806.5 3. A LADDER MAY BE USED TO ACCESS THE SOLAR PANELS FROM THE CANTILEVERED THIRD FLOOR DECK, WITH MINIMAL OBSTRUCTIONS SUCH AS VENT PIPES, CONDUIT OR MECHANICAL EQUIPMENT (CBC 3111.2, CRC R324.6.1)

PATIO GENERAL NOTES:

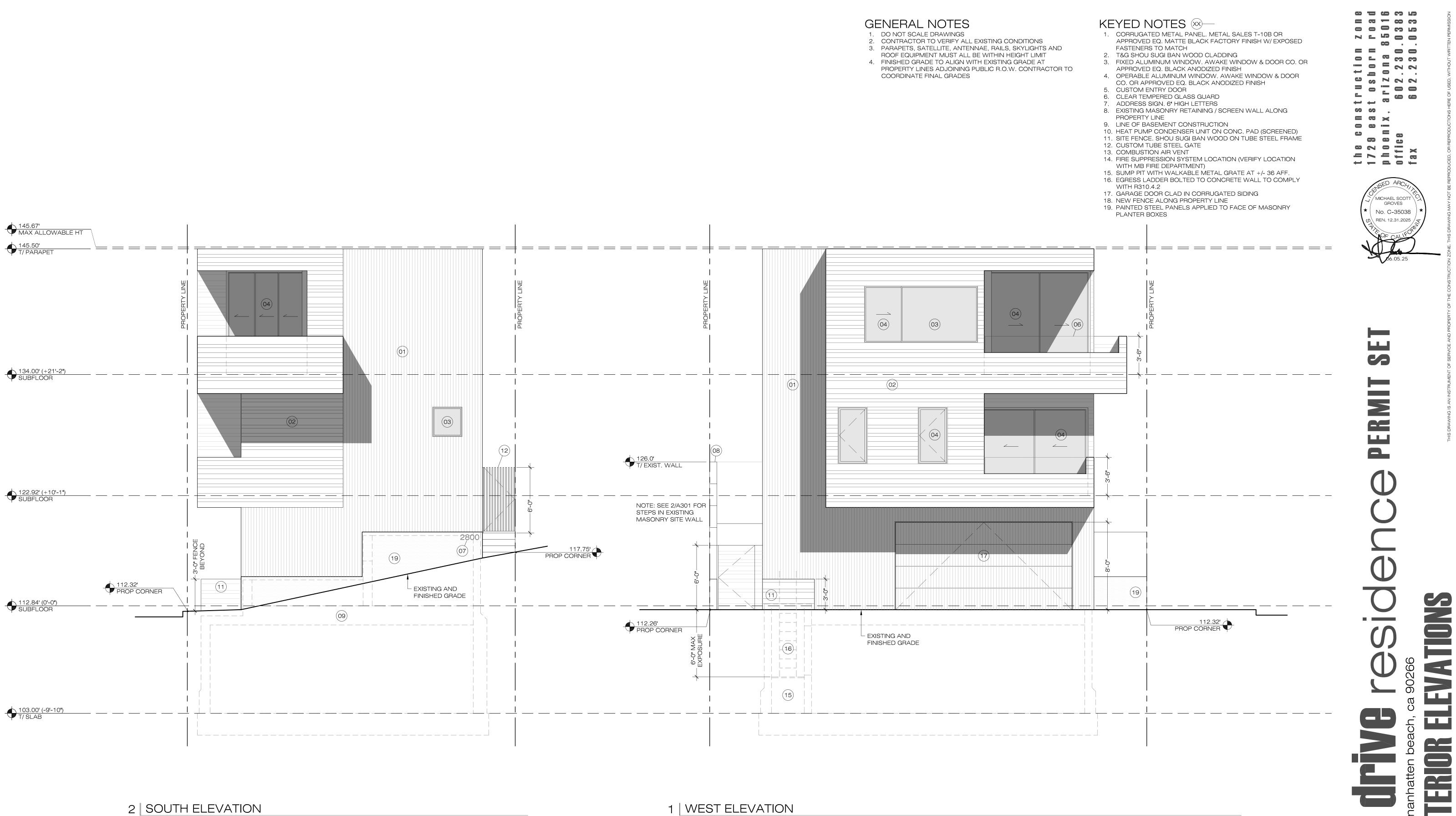
- 1. PATIO WALKABLE SURFACE TO BE STONE PAVERS SRI <50 ON PEDESTAL SYSTEM. SUBDECK AS SHOWN ON PLAN WITH HYDROTECH OR EQ. WATERPROOFING SYSTEM 2. PATIOS TO BE PROVIDED WITH OVERFLOW DRAIN 2"
- ABOVE LOWEST POINT OF DECK
- 3. PATIOS TO BE PROVIDED WITH 42" HIGH GUARD RAIL AROUND PERIMETER

0' 2' 4' 8'



ROOI 04.18.25 σ 06.06.25

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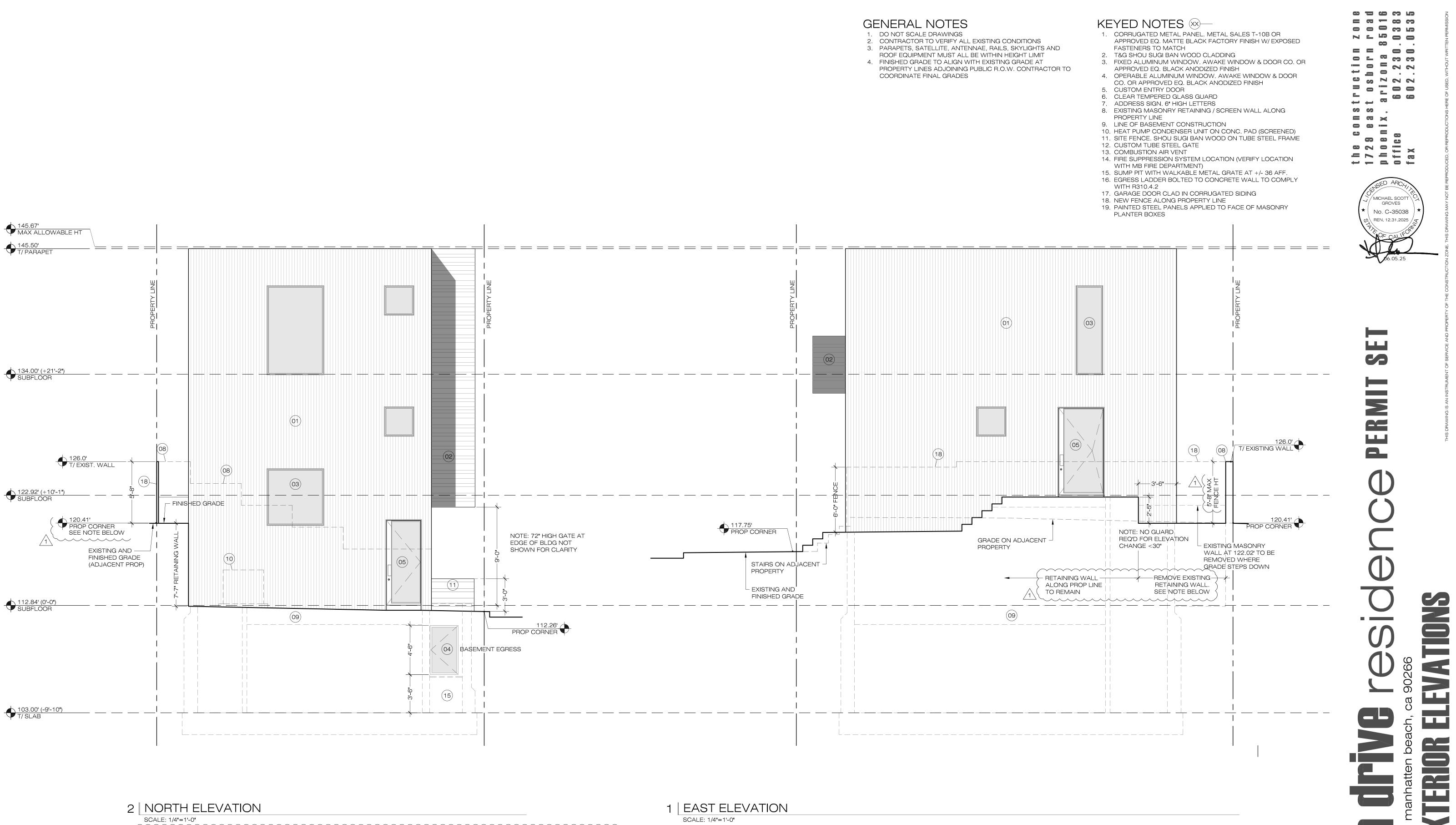


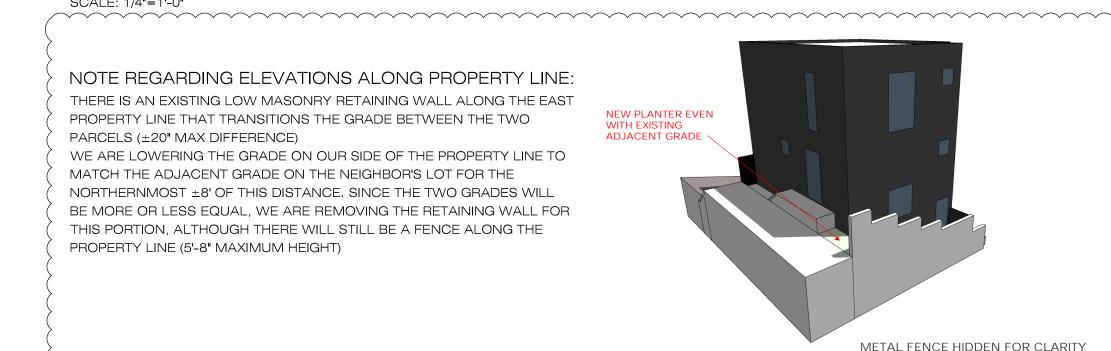
SCALE: 1/4"=1'-0"

1 WEST ELEVATION

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

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06.06.25

METAL FENCE HIDDEN FOR CLARITY $\underline{/1}$



3 GARAGE DOOR HEAD N.T.S.



- 6. SITE WALL / FENCE. SEE EXTERIOR ELEVATIONS
- 7. EPOXY COATING ON HARD TROWEL CONCRETE SLAB
- 8. FRAMED SOFFIT. SEE RCP
- 9. GUARDRAIL TO 42" AFF 10. WOOD FRAMED STAIR TO COMPLY WITH 311.7. MAX RISER TO BE
 - 7-3/4" / TREADS TO BE 10" MINIMUM WITH 3/4" NOSING
- 11. INTEGRAL COLOR EXTERIOR PLASTER ON 5/8" DENSGLASS 12. PAVER SYSTEM OVER PLYWOOD SUBDECK W/ FLUID APPLIED
- WATERPROOFING
- 13. STAIR HEADROOM SHALL NOT BE LESS THAN 6'-8", MEASURED FROM THE TREAD NOSING

GENERAL NOTES

- 1. DO NOT SCALE PLANS 2. ROOF SLOPES SHOWN ARE APPROXIMATE / REFER TO ROOF PLAN FO SLOPE
- 3. REFER TO STRUCTURAL FOR ALL FOOTING AND FRAMING MEMBER

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

	AS	SEMBLIES	
			IB FLAT ROOF SYSTEM. MAX 1:12 SLOPE ICC ESR #2852 CLASS A ROOFING. WATER & SLIP RESISTANT. SRI VALUE - 110 ROOF SHEATHING PER STRUCTURAL DRAWINGS ROOF JOISTS PER STRUCTURAL DRAWINGS R-30 MIN. BATT INSULATION SEE RCP FOR CEILING FINISH AND HEIGHT
	В.	WALL ASSEMBLY:	22 GA CORRUGATED EXP. FASTENER METAL SIDING / METAL SALES T10-A W/ KYNAR FINISH TO BE APPROVED BY ARCHITECT WRB EXTERIOR SHEATHING PER STRUCTURAL R-21 BATT INSULATION (5-1/2") 2x WOOD FRAMING
	C.	WALL ASSEMBLY:	SHOU SUGI BAN NATURAL WOOD CLADDING WRB EXTERIOR SHEATHING PER STRUCTURAL R-21 BATT INSULATION (5-1/2") 2x WOOD FRAMING
М	D.	WALL ASSEMBLY:	CAST-IN-PLACE CONC. WALL W/ FLUID APPLIED WATERPROOFING R-15 BATT INSULATION (3-1/2") 2x WOOD FRAMING
OB	E.	FLOOR ASSEMBLY:	FINISH FLOOR PER FINISH SCHEDULE PLYWOOD SUBLFOOR PER STRUCTURAL FLOOR JOISTS PER STRUCTURAL NOTE: PROVIDE R-30 MIN. BATT INSULATION AT CANTILEVERED
Un	F.	FLOOR ASSEMBLY:	FLOOR STRUCTURE AND FLOOR STRUCTURE OVER GARAGE SEE RCP FOR CEILING FINISH AND HEIGHT 3" MIN. CONCRETE TOPPING SLAB 1-1/8" PLYWOOD SUBFLOOR PER STRUCTURAL R-30 BATT INSULATION FLOOR JOISTS PER STRUCTURAL SEE RCP FOR CEILING FINISH AND HEIGHT

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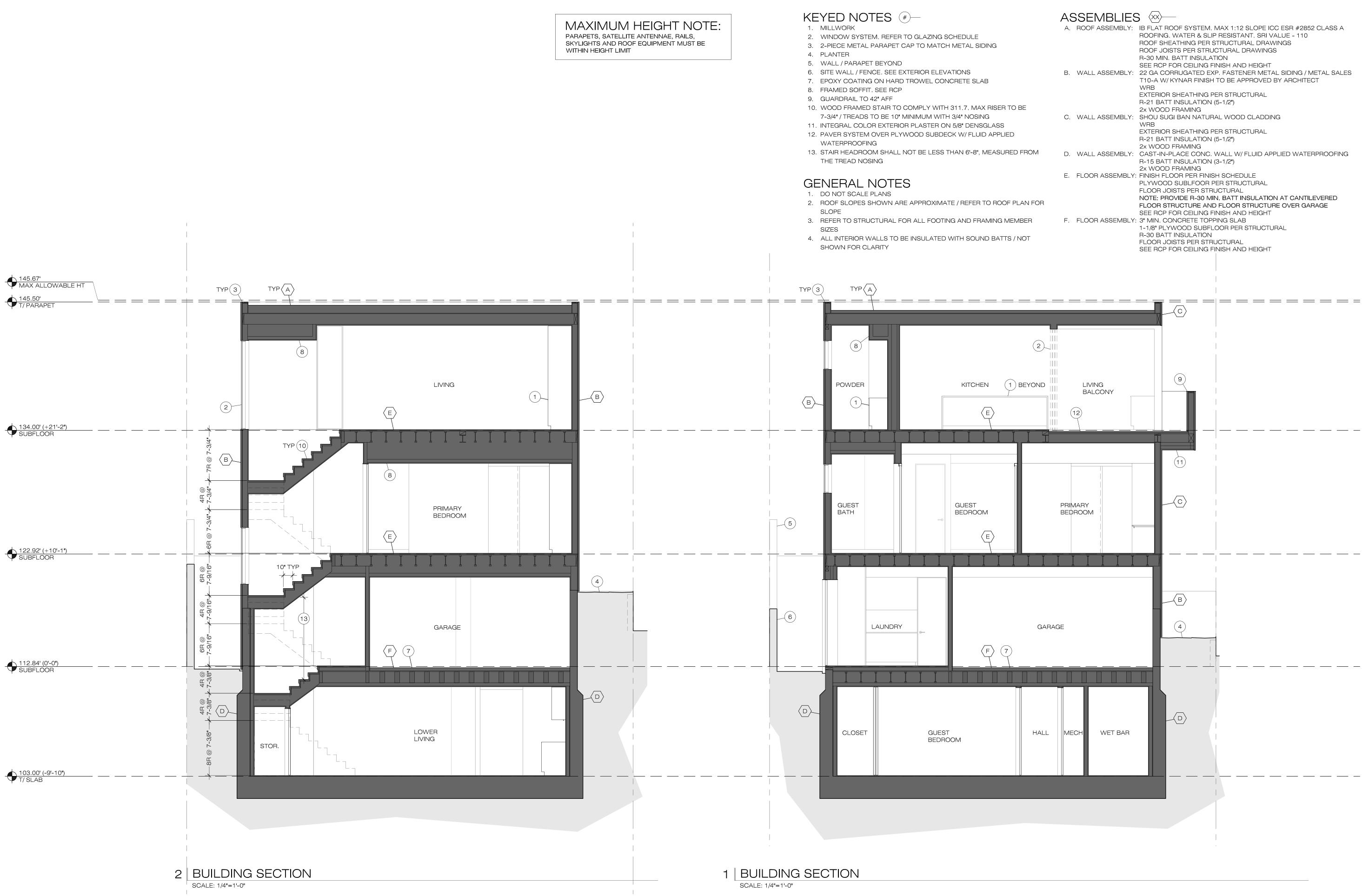
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	AS	SEMBLIES	$\mathbf{S} \propto \mathbf{A}$
			IB FLAT ROOF SYSTEM. MAX 1:12 SLOPE ICC ESR #2852 CLASS A ROOFING. WATER & SLIP RESISTANT. SRI VALUE - 110 ROOF SHEATHING PER STRUCTURAL DRAWINGS ROOF JOISTS PER STRUCTURAL DRAWINGS R-30 MIN. BATT INSULATION
	В.	WALL ASSEMBLY:	SEE RCP FOR CEILING FINISH AND HEIGHT 22 GA CORRUGATED EXP. FASTENER METAL SIDING / METAL SALES T10-A W/ KYNAR FINISH TO BE APPROVED BY ARCHITECT WRB
			EXTERIOR SHEATHING PER STRUCTURAL R-21 BATT INSULATION (5-1/2") 2x WOOD FRAMING
	C.	WALL ASSEMBLY:	SHOU SUGI BAN NATURAL WOOD CLADDING WRB EXTERIOR SHEATHING PER STRUCTURAL R-21 BATT INSULATION (5-1/2")
Μ	D.	WALL ASSEMBLY:	2x WOOD FRAMING CAST-IN-PLACE CONC. WALL W/ FLUID APPLIED WATERPROOFING R-15 BATT INSULATION (3-1/2") 2x WOOD FRAMING
	E.	FLOOR ASSEMBLY:	FINISH FLOOR PER FINISH SCHEDULE PLYWOOD SUBLFOOR PER STRUCTURAL FLOOR JOISTS PER STRUCTURAL
FOR			NOTE: PROVIDE R-30 MIN. BATT INSULATION AT CANTILEVERED FLOOR STRUCTURE AND FLOOR STRUCTURE OVER GARAGE SEE RCP FOR CEILING FINISH AND HEIGHT
	F.	FLOOR ASSEMBLY:	3" MIN. CONCRETE TOPPING SLAB 1-1/8" PLYWOOD SUBFLOOR PER STRUCTURAL R-30 BATT INSULATION FLOOR JOISTS PER STRUCTURAL SEE RCP FOR CEILING FINISH AND HEIGHT



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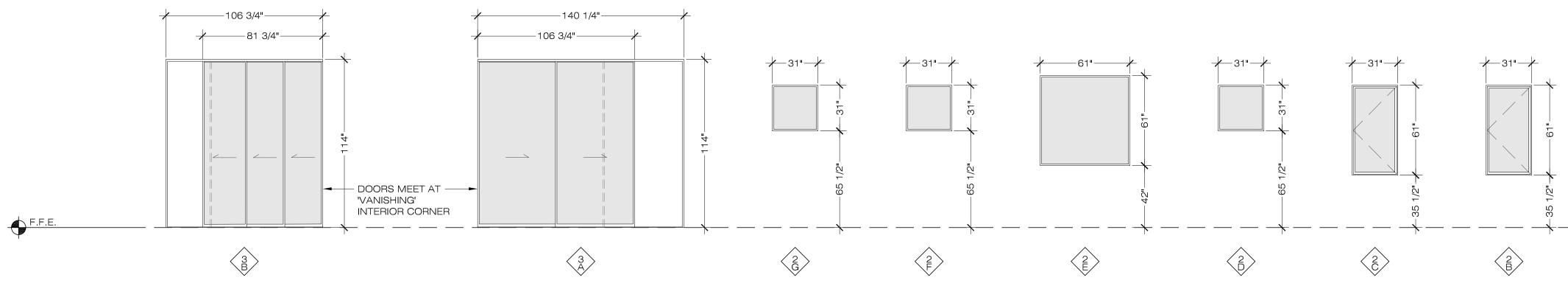
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WINDOW SCHEDULE

					`		
MARK	TYPE	SIZE $(W \times H)^1$	SILL HT	U-VALUE	SHGC <	EXIST. OPENING ³	NOTES
1A	CASEMENT	31"×54"	42"	0.29	0.23 <	YES	EGRESS WINDOW ⁴
2A	MULTI-SLIDE	114-3/4"x96-1/2"	0" ²	0.35	0.25 <	NO ⁵	PARTIAL POCKET INTO ADJACENT WALL CAVITY
2B	CASEMENT	31"x61"	35-1/2"	0.4	0.22 <	YES	EGRESS WINDOW ⁴
2C	CASEMENT	31"×61"	35-1/2"	0.4	0.22 <	YES	EGRESS WINDOW ⁴
2D	FIXED	31"x31"	65-1/2"	0.29	0.23 <	YES	
2E	FIXED	61"x61"	42"	0.27	0.23 <	NO	SILL HEIGHT MEASURED FROM STAIR LANDING
2F	FIXED	31"x31"	65-1/2"	0.29	0.23 <	NO	
2G	FIXED	31"x31"	65-1/2"	0.29	0.23) YES	
ЗA	MULTI-SLIDE	106-3/4"x114"	0" ²	0.35	0.25) NO ⁵	DOORS STACK OUTSIDE OF OPENING
3B	MULTI-SLIDE	81-3/4"×114"	0" ²	0.35	0.25) NO ⁵	DOORS STACK OUTSIDE OF OPENING
3C	SLIDING WINDOW	123-1/4"x61"	36"	0.29	0.23) NO ⁵	SLIDING WINDOW SEPARATED APPROX. 1/3 : 2/3
3D	FIXED	31"×31"	65-1/2"	0.29	0.23) YES	
3E	FIXED	61"×94-1/2"	2"	0.31	0.23 <) NO ⁵	
3F	FIXED	28-1/4"x96-1/2"	O "	0.29	0.23 <	NO	
E.01	HINGED DOOR	37-1/2"x93-1/4"	0" ⁶ (0.31	0.23 <	YES	CUSTOM GLASS DOOR
E.02	PIVOT DOOR	49"×95-3/4"	0" ⁶ (0.31	0.23 ₍	YES	CUSTOM GLASS DOOR
			(\sim	\sim	\bigwedge	
¹ CONTR/	ACTOR TO FIELD VERI	FY WINDOW SIZES			Z		

¹ CONTRACTOR TO FIELD VERIFY WINDOW SIZES

² SLIDING DOOR WITH FACTORY WEATHERPROOF THRESHOLD

³ RE-USE OPENING IN EXISTING CONSTRUCTION - CONTRACTOR TO VERIFY R.O.

⁴ WINDOW SHALL COMPLY WITH R311 AND HAVE A NET CLEAR OPENING OF 5.7 SF MIN. / 20" CLEAR WIDTH MIN. / 24" CLEAR HEIGHT MIN.

 5 RE-USE EXISTING HEADER / MODIFY SILL + JAMBS AS REQ'D

⁶ DOOR WITH CUSTOM STAINLESS STEEL THRESHOLD TO BE MINIMUM OF 1" AND A MAXIMUM OF 7-3/4" ABOVE ADJACENT EXTERIOR GRADE /1/

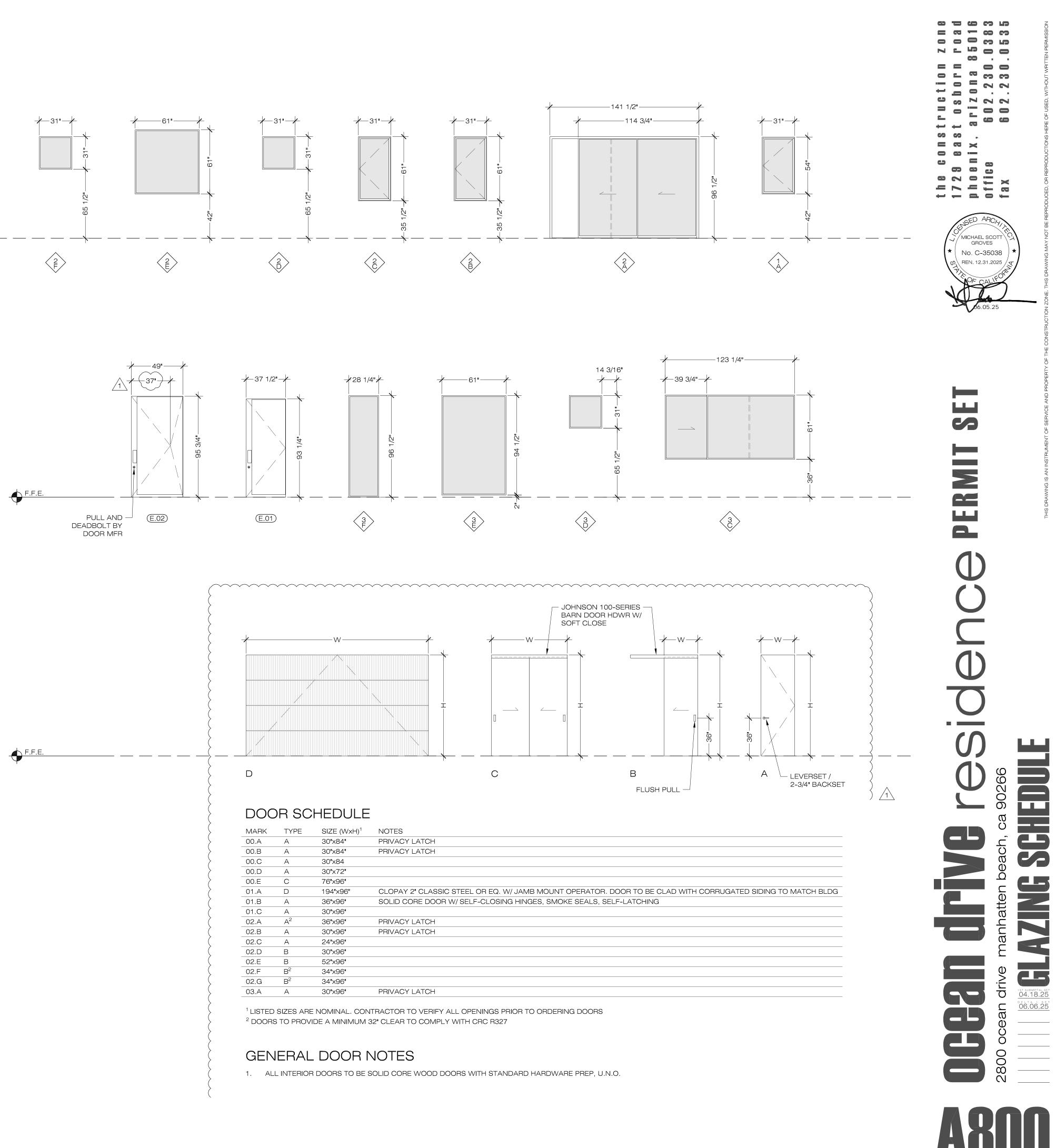
GENERAL WINDOW NOTES

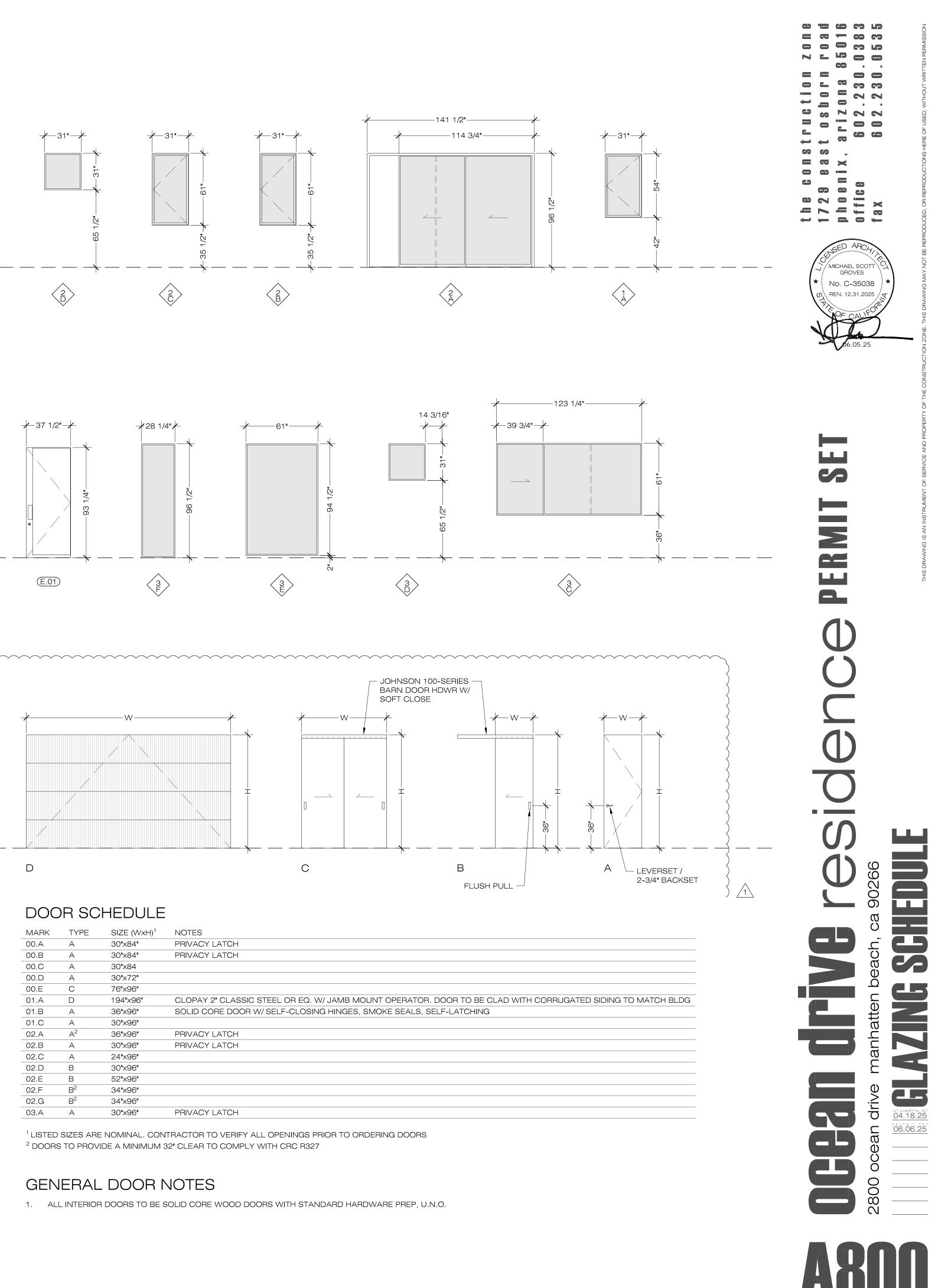
1. CONTRACTOR TO REMOVE ALL EXISTING WINDOWS

2. CONTRACTOR TO PROVIDE SUBMITTAL FOR NFRC-RATED WINDOW SYSTEM MEETING OR EXCEEDING THE PERFORMANCE REQUIREMENTS IN THIS SCHEDULE

3. ALL GLAZING TO BE TEMPERED

4. REFER TO ENERGY COMPLIANCE SHEETS FOR REQUIRED U-VALUES AND SHGC. CONTRACTOR TO VERIFY WINDOW SPECIFICATION MEETS MINIMUM REQUIREMENTS





MARK	TYPE	SIZE (WxH) ¹	NOTES
00.A	А	30"×84"	PRIVACY LATCH
00.B	А	30"×84"	PRIVACY LATCH
00.C	А	30 " ×84	
00.D	А	30"x72"	
00.E	С	76"×96"	
01.A	D	194 " ×96"	CLOPAY 2" CLASSIC STEEL OR EQ. W/ JAME
01.B	А	36"×96"	SOLID CORE DOOR W/ SELF-CLOSING HING
01.C	А	30"×96"	
02.A	A ²	36"×96"	PRIVACY LATCH
02.B	А	30"×96"	PRIVACY LATCH
02.C	А	24"×96"	
02.D	В	30"×96"	
02.E	В	52"x96"	
02.F	B^2	34"×96"	
02.G	B^2	34"x96"	
03.A	А	30"×96"	PRIVACY LATCH

STRUCTURAL NOTES:

- 1. A SPECIAL INSPECTION OF HIGH STRENGTH A325 AND A490 BOLTS SHALL BE IN ACCORDANCE WITH APPROVED PANELS SHALL BE BLOCKED.
- 2. THE MINIMUM SHEET DIMENSION OF SHEAR WALL SHALL BE 24" AND SHALL BE MANUFACTURED WITH EXTERIOR GLUE AND NAILED NOT CLOSER THAN 1/2" TO THE PANEL EDGE AND NAILING SHALL NOT FRACTURE THE SURFACE OF THE SHEATHING.
- 4. NOTCHING AND BORING OF STUDS AND JOISTS SHALL CONFORM TO SECTIONS 2308.9.10 # 2308.9.11 38. CONTRACTOR'S RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING
- CBC.
- 5. STUCCO LATH AND DRYWALL SHALL BE NAILED TO ALL STUDS AND TO TOP AND BOTTOM OF PLATES. 6. CARRY ALL PS AND DOUBLE STUDS DOWN TO THE FOUNDATION OR SUPPORTING BEAMS BELOW. SOLID 39. SPECIAL INSPECTIONS OF CONCRETE ELEMENTS IN BUILDINGS AND STRUCTURES AND CONCRETING BLOCK TO PROVIDE FULL BEARING @ FLOOR LEVELS.
- $\frac{FLOOR SHEATHING SPECIFICATIONS:}{1.1/8" T \pm G CDX, PANEL IDENTIFICATION = 48/24$ W/IOd NAILS @ 6" # IO" O.C., FACE GRAIN PERPENDICULAR TO JOISTS, JOINTS STAGGERED. FLOOR
- PLYWOOD SHALL BE TONGUE AND GROOVE OR HAVE BLOCKED PANEL EDGES. 5/8" CDX, PANEL IDENTIFICATION = 24/0,
- W/8d NAILS @ 6" \$ 12" O.C., FACE GRAIN PERPENDICULAR TO RAFTERS, JOINTS STAGGERED.
- 3/4" EXTERIOR RATED SHEATHING, PANEL IDENTIFICATION = 32/16W/IOd NAILS @ 6" # IO" O.C., FACE GRAIN PERPENDICULAR TO JOISTS, JOINTS STAGGERED. SHEATHING SHALL BE TONGUE AND GROOVE OR HAVE BLOCKED PANEL EDGES.
- IO. ALL DIAPHRAGM AND SHEAR NAILING TO BE WITH "COMMON NAILS OR BOX NAILS".
- II. SEE DETAIL FOR FLOOR AND ROOF DIAPHRAGM NAILING.
- 14. A CERTIFICATE OF COMPLIANCE MUST BE PROVIDED FOR ALL GLUE LAMINATED BEAMS.
- 15. STRAP ALL NEW TOP PLATES TO EXISTING WITH STG224 @ ALL LOCATIONS AS REQUIRED.
- I G. ALL LUMBER AND PLYWOOD WILL BE GRADE STAMPED BY AN APPROVED INSPECTION AGENCY.
- 17. PROVIDE SOLID BLOCKING OR CROSS BRACING AT INTERVALS NOT EXCEEDING 8 FEET FOR RAFTERS OR I. BASIC WIND SPEED: 110 MPH (ASD) JOISTS WITH A DEPTH TO WIDTH RATIO OF 6:1 UNLESS BOTH EDGES ARE HELD IN LINE. 20. STRUCTURAL OBSERVATION SHALL BE PROVIDED BY THE ENGINEER OF RECORD UPON COMPLETION OF FOUNDATION FORM WORK, COMPLETION OF FLOOR FRAMING, AND COMPLETION OF SHEAR WALLS.
- (CHAPTER 1709 CBC).
- 21. MICROLAM BEAMS TO BE PER I.C.B.O. NER 126.
- 22. TRUSS JOISTS TO BE BY `TRUSS JOIST MACMILLAN CO.'.
- 23. STUDS IN EXTERIOR WALLS OF ROOMS WITH OPEN BEAM/SLOPING CEILINGS, SHALL EXTEND FROM FLOOR TO ROOF WITHOUT INTERMEDIATE PLATES UNLESS PLATES ARE DESIGNED. MAXIMUM HEIGHT OF BEARING STUDS IS 10' SEE FRAMING PLANS FOR LOCATIONS. 24. LICENSED FABRICATOR REQUIRED FOR MICROLAMS, GLULAMS, ENGINEERED JSTS, TRUSSES, AND
- STRUCTURAL STEEL. 25. FIRE BLOCK STUD WALLS (AT 10' INTERVALS HORIZONTAL AND VERTICAL) ENCLOSED AND CONCEALED SPACES, AND AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, BETWEEN ATTIC AND CHIMNEY CHASE, AT STAIR STRINGERS, AND SIMILAR PLACES AT CEILING AND FLOOR LEVELS.
- 27. SEE DETAILS $\begin{pmatrix} 2 \\ S \cdot 06 \\ S \cdot 06$
- 28. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM WHERE THE NAIL SPACING OF THE SHEATHING IS LESS THAN 4" ON CENTER. (CBC 1707.3)
- 29. WHERE SPECIAL INSPECTION OR TESTING IS REQUIRED, THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL INCLUDE A `STATEMENT OF SPECIAL INSPECTIONS. 30. FRAMING HARDWARE: SIMPSON STRONG TIE CONNECTORS OR AN APPROVED EQUAL
- 3 I. WOOD FRAMING MEMBERS, INCLUDING WOOD SHEATHING, THAT REST ON EXTERIOR FOUNDATION WALLS AND ARE LESS THAN & INCHES FROM EXPOSED EARTH SHALL BE OF NATURALLY DURABLE OR PRESERVATIVE-TREATED WOOD (CBC 2304.11.2.2)
- 32. PROVIDE EQUIVALENT OPTIONS TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO INSTALLATIONS. 33. STRUCTURAL OBSERVATION IS REQUIRED PER CBC 1709.2 \$ 1709.3. FOUNDATION INSPECTION, SHEAR WALLS, ROOF FRAMING.
- 34. STRUCTURAL OBSERVATIONS FOR SEISMIC RESISTANCE: STRUCTURAL OBSERVATIONS SHALL BE PROVIDED FOR THOSE STRUCTURES INCLUDED IN SEISMIC DESIGN CATEGORY D, E OR F, AS DETERMINED DEAD LOAD: 85#/ S.F. LIVE LOAD 40#/S,F, POINT LOAD: 3000# IN CBC 1613, WHERE ONE OR MORE OF THE FOLLOWING CONDITIONS EXIST: (LARUCP 17-04) BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE OF THE DESIGN -WHEN SUCH OBSERVATION IS SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.

ICC & LA RESEARCH REPORTS

TJI: PSL: HOLDDOWNS: HFX. STRAPS: HANGERS:

WEYERHAEUSER: WEYERHAEUSER: SIMPSON: HARDY FRAMES: SIMPSON: SIMPSON:

LARR# 25538 LARR# 25202 LARR#25720 LARR# 25759 LARR# 25713 LARR# 2580G

ESR#1153 ESR#1387 ESR# 2330 ESR# 2089 ESR# 2105 ESR# 2877

35. CONTINUOUS SPECIAL INSPECTION	BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED AS PER CBC
1704 & CHAPTERS 19, 21 & 22 FOR:	
-CONCRETE OVER 2500 PSI	-FIRE PROOFING
-HIGH STRENGTH BOLTS	-ENGINEERED MASONRY
-FIELD WELDING	-HIGH LIFT GROUTING
-PRE STRESSED CONCRETE	-HIGH LOAD DIAPHRAGMS
-SPECIAL MOMENT RESISTING CONC	RETE FRAMES

- SYSTEM / COMPONENT LISTED IN THE `STATEMENT OF SPECIAL INSPECTION' SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER CBC 1706.1
- OPERATIONS SHALL BE AS REQUIRED BY CBC 1704.4 AND CBC T-1704.4 (CBC 1704.4 \$ 1901.7)
- 4 I. GRADING AND FOUNDATION SHALL BE INSPECTED AND CERTIFIED BY THE SOILS ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
- 42. ANCHOR BOLTS IN CONTACT WITH PRESSURE TREATED SILL PLATE SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICONE BRONZE OR COPPER - PER CBC SECTION 2304.9.5.1
- 43. SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS AND DIAPHRAGMS, INCLUDING CONNECTIONS TO OTHER COMPONENTS OF THE SEISMIC-FORCE RESISTING SYSTEM WHEN NAIL SPACING OF THE SHEATHING IS 4" OR LESS O.C. -PER CBC SECT. 1707.3

DESIGN PARAMETER

A. FLOOR LOADS: DEAD LOAD 14 #/SF: LIVE LOAD 40 #/SF; DECK LOADS: DEAD LOAD 25 #/SF: LIVE LOAD 60 #/SF

- B. ROOF LOADS: DEAD LOAD 25 #/SF: LIVE LOAD 20 #/SF
- C. WIND DESIGN DATA:
- II. WIND IMPORTANCE FACTOR AND OCCUPANCY CATEGORY: 1.0 AND II III. WIND EXPOSURE: C
- IV. INTERNAL PRESSURE COEFFICIENT: 0.18
- D. EARTHQUAKE DESIGN DATA:
- I. SEISMIC IMPORTANCE FACTOR AND RISK CATEGORY: 1.0 AND II

- III. SITE CLASS: D
- IV. SDS AND SDI : SDS=1.085 G, SDI=0.613 G
- V. SEISMIC DESIGN CATEGORY: D
- VI. BASIC SEISMIC-FORCE-RESISTING SYSTEM : W. S. WALLS, HFX'S
- VII. DESIGN BASE SHEAR: 10.85 KIP (ASD)
- VIII. CS=0.12 (ASD)
- IX. R=6.5
- X. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE PROCEDURE E. SPECIAL LOADS: NONE
- F. SYSTEM AND COMPONENTS REQUIRING SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:W. S. WALLS, HFX S

GARAGE FLOOR: 3" CONCRETE

DEAD LOAD: 48#/ S.F. LIVE LOAD 40#/S,F, POINT LOAD: 3000# DRIVEWAY: 6" CONCRETE

ABBREVIATIONS:

AB	ANCHOR BOLT	JST
BLKG	BLOCKING	KP
BM	BEAM	MB
BN	BOUNDARY NAILING	MS⊤
CLR	CLEAR	OC
CANT	CANTILEVER	Ρ
СВ	CEILING BEAM	PA
CC	SIMPSON COLUMN CAP	P&S
CB	SIMPSON COLUMN BASE	PC
CMSTC	COILED STRAP	PL
CONT	CONTINUOUS	PSL
CS	CORNER STRAP, MSTC28	REQ'E
CCQ	COLUMN CAP	RR
DJ	DECK JOIST	SIM
ECCQ	COLUMN CAP	STD
EN	EDGE NAILING	SIM
ELEV	ELEVATOR	T/
EPC	END POST CAP	TYP
FLR	FLOOR	ΤJΙ
FJ	FLOOR JOIST	TS
GLTV	H.D. BEAM HANGER	HU
HB	HIGH BEAM	HUC
HD	HEAVY DUTY	UNO
HDR	HEADER	VIF
HFX	HARDY FRAME	W
ITS	TRUSS JOIST HANGER	W/

SYMBOL LEGEND

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L _ _ _

VERICAL SHEAR LINE

POST / COLUMN

CONCRETE WALL

PAD FOUNDATION

FRAME WALL

CONT. FOOTING

SHEAR WALL W/ A.B.

CONCRETE WALL (LOW)

SLAB

JST	JOIST
KP	KING POST
MB	MACHINE BOLT
MST	STRAP TIE
OC	ON CENTER
Р	POST
PA	POST ABOVE
P&S	POST AND STRAP ABOVE
PC	SIMPSON POST CAP
PL	PLATE
PSL	PARALLAM WOOD BEAM
REQ'D	REQUIRED
RR	ROOF RAFTER
SIM	SIMILAR
STD	STANDARD
SIM	SIMILAR
T/	TOP OF
TYP	TYPICAL
TJI	PLYWOOD WEB JOIST
TS	TUBE STEEL
HU	WOOD BEAM HANGER
HUC	WOOD BEAM HANGER
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
W	WIDE FLANGE BEAM
W/	WITH

DESIGN CRITERIA

DESIGN UNITENIA.							
CODE	2022 CBC, ASCE 7-10, 2024 NDS						
MATERIALS	TIMBER (D.F. LARCH GRADING RULES AGENCY WCLI/WWPA)						
	SIZE	GRADE	F _b (PSI)	F _v (PSI)	E (PSI)		
	2x	#2-DF	900	180	1.6x10E6		
	4x	#2-DF	900	180	1.6x10E6		
	6x	#1-DF	1,350	170	1.6x10E6		
	GLULAM	24F	2,400	210	1.7x10E6		
	PARALLAM	2.0E PSL	2,900	290	2.0x10E6		
	MICROLLAM	1.9E LVL	2,600	285	1.8x10E6		
CONCRETE	2,500 PSI 3,000 PSI / GRADE BEAMS AND RETAINING WALLS						
STEEL	STRUCTURAL STEEL SHALL CONFORM TO ASTM A-572 (GRADE 50) PIPE COLUMNS SHALL CONFORM TO ASTM A-53, GRADE B, U.N.O. TUBE STEEL SHALL CONFORM TO ASTM A500 GRADE B (F_y =46KSI) UNFINISHED NUTS AND BOLTS SHALL CONFORM TO ASTM A307						
SOIL	SOIL BEARING PRESSURE = 1,600 PSF + 200d, WHERE d=18" BELOW EXISTING GRADE / MAX 2,000 PSF						
REINF. STEEL	ASTM A615-40 FOR BARS #4 AND SMALLER ASTM A615-60 FOR BARS #5 AND LARGER ASTM A706-60 FOR WELDED BARS						

ASTM C90, GRADE N CONC BLOCK

STRUCTURAL CONSULTANTS

M.S. STRUCTURAL ENGINEERING INC. 310.809.7061 3719 EMERALD STREET, UNIT A TORRANCE, CA 90503

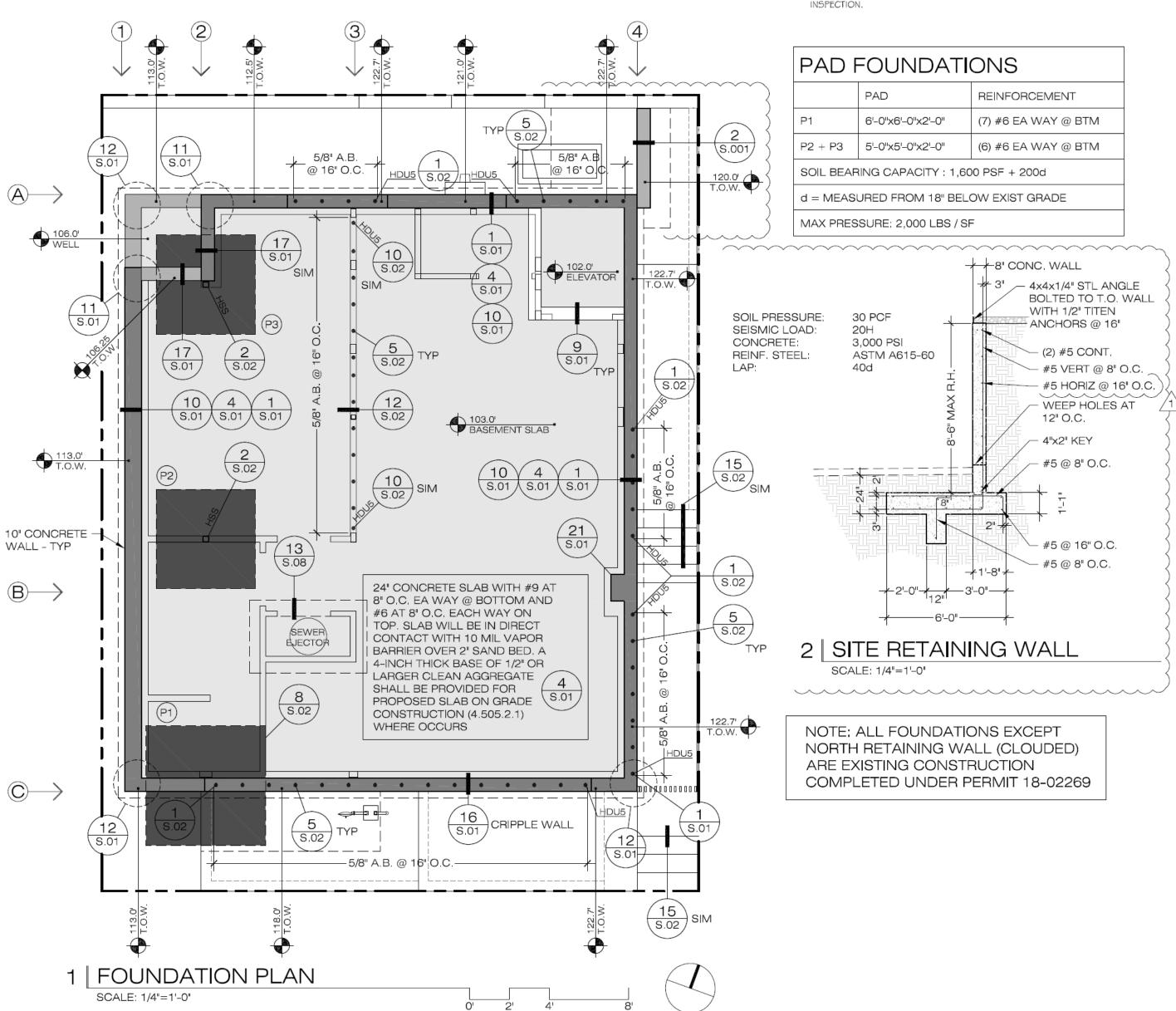
GEOTECHNICAL CONSULTANTS

T.I.N. ENGINEERING CO. 310.371.7045 17834 BAILEY DRIVE

TORRANCE, CA 90504

SOILS ENGINEER APPROVAL THIS PLAN HAS BEEN REVIEWED AND CONFORMS TO THE RECOMMENDATIONS OF SOILS ENGINEERING / GEOLOGICAL REPORT #172287 DATED 08,21,2017

SIGNATURE AND DATE



GEOTECHNICAL REVIEW

THIS PLAN HAS BEEN REVIEWED AND APPEARS TO BE IN GENERAL CONFORMITY WITH THE **RECOMMENDATIONS PRESENTED IN OUR REPORT(S).** NO PRESENTATION IS MADE AS TO THE ACCURACY OF MEASUREMENTS, DIMENSIONS, CALCULATIONS, OR ANY DESIGN.



FOUNDATION NOTES

I. ALL HOLDOWNS MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION AND RE-TIGHTN JUST PRIOR TO TO COVERING WALL FRAMING (109.3 APPENDIX C.B.C)

- 2. PROVIDE UNDER FLOOR FOUNDATION VENTS OF NOT LESS THAN 1 S.F. OF VENT AREA FOR EVERY 150 S.F. OF UNDER FLOOR AREA. - VERIFY EXISTING 3. THE SOIL BEARING VALUE USED IS 1600 PSF. + 200d , PER SOILS REPORT
- #172287 PREPARED BY T.I.N. ENGINEERING.
- 4. FOUNDATION CONCRETE WITH DESIGN STRENGTH OVER 2500 PSI REQUIRES SPECIAL INSPECTION. 5. ALL ANCHOR BOLTS TO BE 5/8" DIA X 10" LONG (12" WHEN USING 3X PLATE)
- WITH 7" MIN. EMBEDMENT. SPACED 6'-0" O.C. MAX. AND BEGINNING O'-9" FROM ENDS. MINIMUM TWO BOLTS PER PIECE OF SILL PLATE. (CBC 2308.6) 6. MIXING, CONVEYING, DEPOSITING AND CURING CONCRETE SHALL BE IN
- ACCORDANCE WITH SECTION 1905 OF THE CBC. 7. ALL FOUNDATION SILL PLATES SHALL BE PRESSURE TREATED.
- 8. CRIPPLE WALLS EXCEEDING 4'-O" IN HEIGHT SHALL BE 2XG OR 3X4 STUDS WITH BRACING. CRIPPLES LESS THAN 14" IN HEIGHT SHALL BE SOLID BLOCKED.
- 9. RETAINING WALL WATERPROOFING WILL BE INSPECTED PRIOR TO BACKFILLING. I O. MINIMUM DISTANCE FROM FOUNDATION FOOTING TO DAYLIGHT TO BE H/3 OR 5', WHICHEVER IS GREATER. SEE FIGURE 1805.3.1. [1805.3.1 CBC].
- II. BACKFILL AND COMPACTION BEHIND CANTILEVER RETAINING WALL MUST BE COMPLETE PRIOR TO FLOOR JOISTS.
- I 2. VERIFY LOCATION OF HOLDOWNS WITH STRUCTURAL PLANS. DO NOT SCALE PLANS.
- 13. PROVIDE 5/8" DIA. ANCHOR BOLTS AT 24" O.C. AT ALL CRIPPLE WALL LOCATIONS. UNLESS NOTED OTHERWISE.
- 14. MINIMUM CONCRETE COMPRESSIVE STRENGTH TO BE 2500 P.S.I. PER A.C.I. 1.1.1
- I 5. ALL GRADE BEAMS ¢ PADS SHALL BE 3000 PSI CONCRETE AT 28 DAYS. SPECIAL INSPECTION IS REQUIRED.
- I G. USE OF AG I 5 GRADE 40 AND 60 REINFORCING STEEL REQUIRES MIL TESTING FOR OVER STRENGTH. PROVIDE COPY OF REPORT.
- 17. EPOXY HOLDOWN AND ANCHORAGE SYSTEMS REQUIRE SPECIAL INSPECTION. 18. FOUNDATION ANCHOR BOLTS SHALL HAVE MININUM 3" X 3" X 0.229" PLATE
- WASHERS PER CBC SECTION 2308.12.8 U.N.O. FOR SEISMIC DESIGN CATEGORY D, E, & F.
- 19. FOUNDATION ANCHOR BOLTS SHALL HAVE THE FOLLOWING MIN. STEEL PLATE WASHERS UNLESS NOTED OTHERWISE 5/8" DIA. - 2-1/2" SQ. X 1/4" WASHER 3/4" DIA. - 3 " SQ. X 5/16" WASHER
- 7/8" DIA. 3" SQ. X 5/16" WASHER 1" DIA. - 3 1/2" SQ. X 3/8" WASHER
- 20. PROVIDE SURVEY STAKES PRIOR TO FOUNDATION INSPECTION TO VERIFY LOT LINES.
- 2 I . HOLDOWNS SHALL BE RE-TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING
- 22. SEE DETAIL (S-01) FOR TYPICAL ANCHOR BOLT PLACEMENT
- 23. CERTIFICATION OF FOUNDATION FORMS REQUIRED PRIOR TO FOUNDATION INSPECTION.

		PAD	REINFORCEMENT			
	P1	6'-0"x6'-0"x2'-0"	(7) #6 EA WAY @ BTM			
	P2 + P3	5'-0"x5'-0"x2'-0" (6) #6 EA WAY @ BT				
	SOIL BEAF	00 PSF + 200d				
d = MEASURED FROM 18" BELOW EXIST GRADE MAX PRESSURE; 2.000 LBS / SF						

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SHEAR PANEL SCHEDULE							
		NAILING		ANCHOR			
PNL	TYPE OF SHEATHING	EDGES	FIELD	TOP PL	SOLE PL BETWEEN FLOORS	SILL PLATE AT FOUND.	MAX ALLOW. LOADING #/LF
	15/32" STRUCT. 1 PLYWOOD	10d @ 6" O.C.	10d @ 12" O.C.	LTP 4 OR A-35 @ 18" O.C.	3/8" Ø x 7" LAG BOLTS @ 16" O.C.	5/8" Ø A.B. @ 24" O.C.	255
B	15/32" STRUCT. 1 PLYWOOD	10d @ 4" O.C.	10d @ 12" O.C.	LTP 4 OR A-35 @ 12" O.C.	3/8" Ø x 7" LAG BOLTS @ 16" O.C.	5/8" Ø A.B. @ 16" O.C.	383
\bigtriangleup	15/32" STRUCT. 1 PLYWOOD	10d @ 3" O.C.	10d @ 12" O.C.	LTP 4 OR A-35 @ 10" O.C.	3/8" Ø x 7" LAG BOLTS @ 12" O.C.	5/8" Ø A.B. @ 16" O.C.	499
	15/32" STRUCT. 1 PLYWOOD	10d @ 2" O.C.	10d @ 12" O.C.	LTP 4 OR A-35 @ 8" O.C.	3/8" Ø x 7" LAG BOLTS @ 8" O.C.	5/8" Ø A.B. @ 16" O.C.	653
Ē	15/32" (2 SIDES) STRUCT. 1 PLYWOOD	10d @ 3" O.C.	10d @ 12" O.C.	LTP 4 OR A-35 @ 5" O.C.	3/8" Ø x 7" LAG BOLTS @ 6" O.C.	5/8" Ø A.B. @ 8" O.C.	998
F	15/32" (2 SIDES) STRUCT. 1 PLYWOOD	10d @ 2" O.C.	10d @ 12" O.C.	LTP 4 OR A-35 @ 4" O.C.	3/8" Ø x 7" LAG BOLTS @ 4" O.C.	5/8" Ø A.B. @ 8" O.C.	1305

HOLDOWN SCHEDULE HOLDOWN SYMBOL SHEAR WALL LENGTH SHEAR WALL SYMBOL STRAPS BETWEEN MIN. END HOLDOWNS AT | SYMBOL | POST FLOORS FOUNDATIONS 4x4 MST-37 (2) 4x4 MST-48 (3) 4x4 MST-60 (4) MST-72 4x4 (5)4x6 (2x) MST-60 (6)4x6 (2x) MST-72 HDU2 (7)4x4 (8)HDU4 4x4 (9)4x4 HDU5 (10)HDU8 4x6 (11)HDU11 4x8 / 6x6 (12) HDU14 4x8 / 6x6

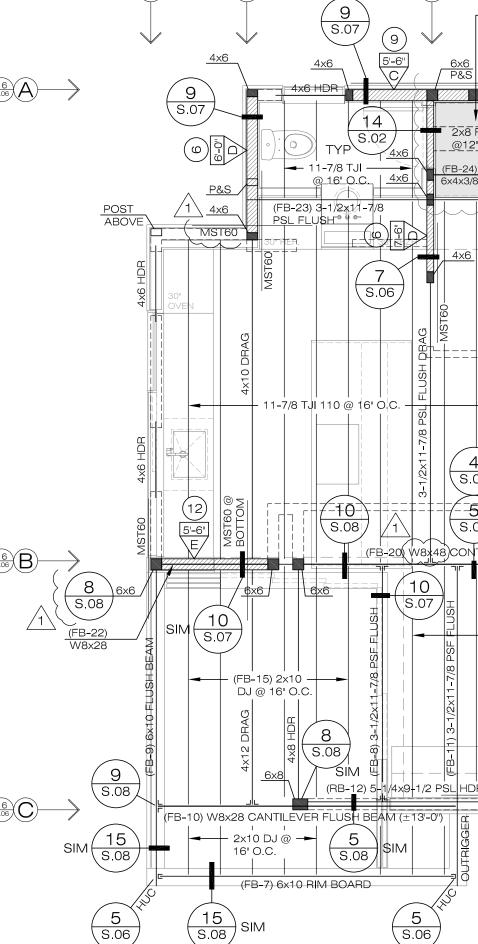
GENERAL NOTES:

- 1. USE 3x FRAMING MEMBERS FOR FOUNDATION SILL PLATES AND ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS (S. WALLS B, C, D, E, AND F- ALLOWABLE SHEAR > 300 LB/LF). PROVIDE 1/2" MIN. EDGE DISTANCE FOR NAILING AT 3x MEMBERS. USE DOUBLE TOP PLATE TYPICAL. ALL NAILS TO BE STAGGERED COMMON NAILS.
- SPECIAL INSPECTION IS REQUIRED AT ALL SHEAR WALLS
- SEE APPROPRIATE SHEAR WALL TRANSFER DETAILS ON PLANS HOLD DOWNS AS INDICATED ON PLANS TO BE LOCATED AT EACH END OF SHEAR WALL.
- 5. HOLD DOWNS AS INDICATED ON PLANS BETWEEN FLOORS TO BE LOCATED AT EACH END OF EACH PANEL TO POST OR BEAM BELOW, U.N.O.
- 6. 0.25 THICK x 3"x3" PLATE WASHER REQUIRED AT ALL SILL PLATE BOLTING, AND ALL HD'S AS REQUIRED BY THE LOCAL BUILDING OFFICIAL 7. BOLT HOLES FOR HOLD DOWN SHALL BE A MAXIMUM OF 1/16" OVERSIZE,
- INSPECTOR TO VERIFY 8. HOLD DOWN CONNECTORS SHALL BE TIGHTENED JUST PRIOR TO
- COVERING THE WALL
- 9. PROVIDE MINIMUM 1/2" FROM EDGE OF PANEL TO NAILS 10. PROVIDE 3x MIN. BEAM OR BLOCKING UNDER ALL SHEAR WALLS BETWEEN FLOORS TO ACCEPT LAG BOLTING

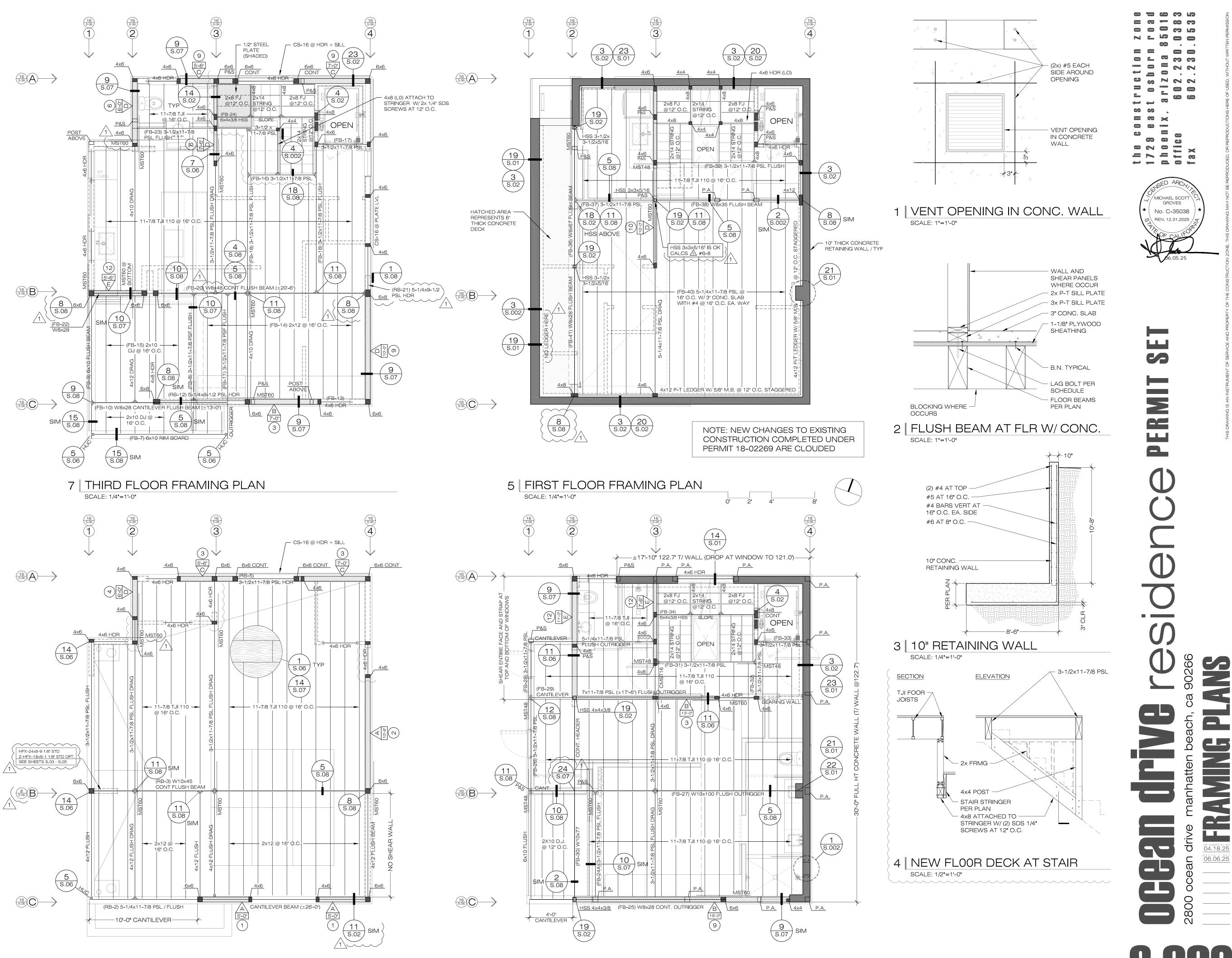
ABBREVIATIONS:

AB	ANCHOR BOLT	JST
BLKG	BLOCKING	KP
BM	BEAM	MB
BN	BOUNDARY NAILING	MST
CLR	CLEAR	OC
CANT	CANTILEVER	Ρ
СВ	CEILING BEAM	PA
CC	SIMPSON COLUMN CAP	P&S
СВ	SIMPSON COLUMN BASE	PC
CMSTC	COILED STRAP	PL
CONT	CONTINUOUS	PSL
CS	CORNER STRAP, MSTC28	REQ'D
CCQ	COLUMN CAP	RR
DJ	DECK JOIST	SIM
ECCQ	COLUMN CAP	STD
EN	EDGE NAILING	SIM
ELEV	ELEVATOR	T/
EPC	END POST CAP	TYP
FLR	FLOOR	TJI
FJ	FLOOR JOIST	ΤS
GLTV	H.D. BEAM HANGER	HU
HB	HIGH BEAM	HUC
HD	HEAVY DUTY	UNO
HDR	HEADER	VIF
HFX	HARDY FRAME	W
ITS	TRUSS JOIST HANGER	W/

JOIST
KING POST
MACHINE BOLT
STRAP TIE
ON CENTER
POST
POST ABOVE
POST AND STRAP ABOVE
SIMPSON POST CAP
PLATE
PARALLAM WOOD BEAM
REQUIRED
ROOF RAFTER
SIMILAR
STANDARD
SIMILAR
TOP OF
TYPICAL
PLYWOOD WEB JOIST
TUBE STEEL
WOOD BEAM HANGER
WOOD BEAM HANGER
UNLESS NOTED OTHERWISE
VERIFY IN FIELD
WIDE FLANGE BEAM
WITH



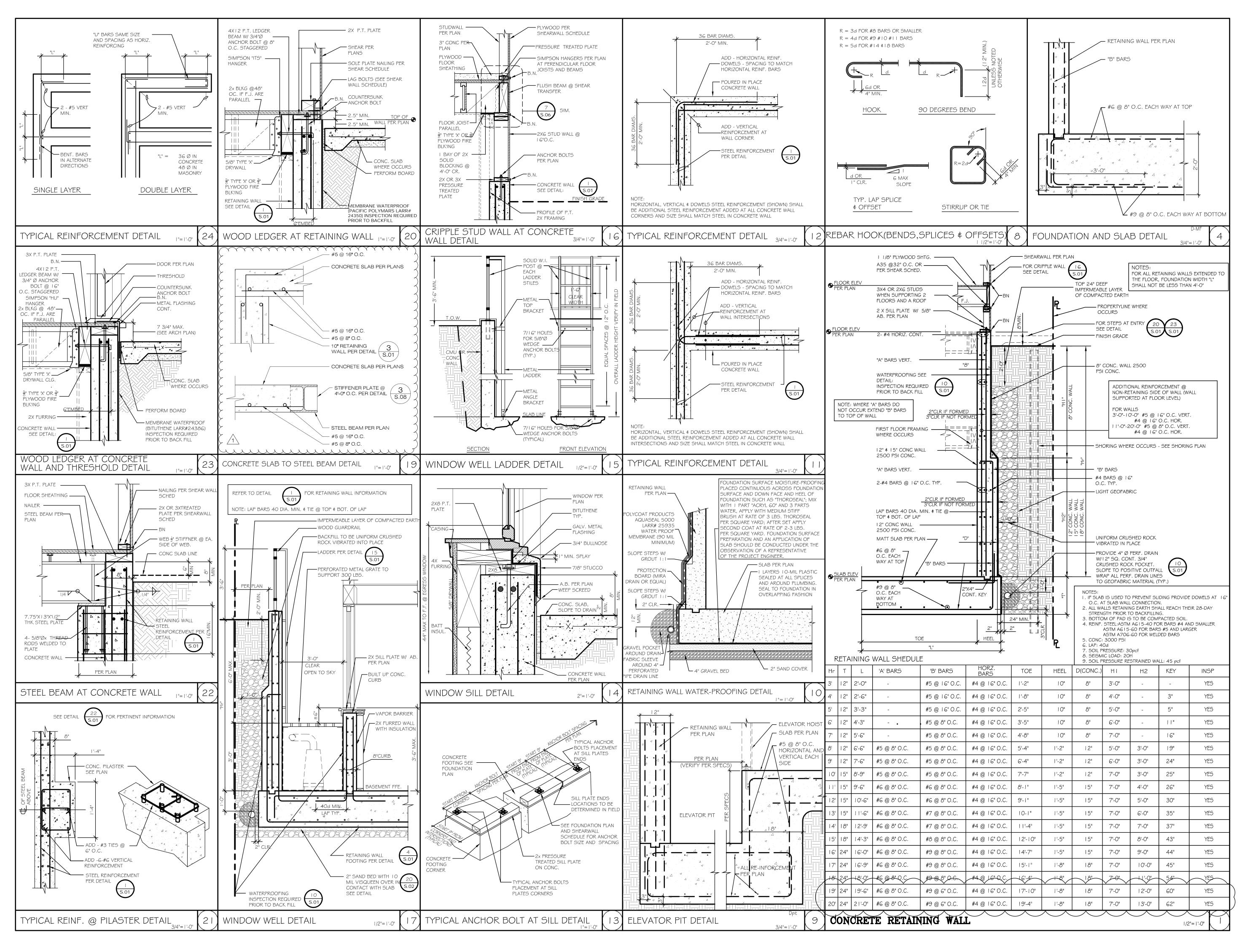




SYMBOL LEGEND

# X >	VERICAL SHEAR LINE
	POST
	POST ABOVE
	SHEAR WALL
· · · · · · · · · · · · · · · · · · ·	CONCRETE WALL
	WALL BELOW
	STEEL BEAM
	WOOD BEAM
	WOOD JOIST

6 SECOND FLOOR FRAMING PLAN SCALE: 1/4"=1'-0"



6 8 8 a r r s MICHAEL SCOTT GROVES No. C-35038 REN. 12.31.2025 6.05.25 Z \sim S σ 04.18.25

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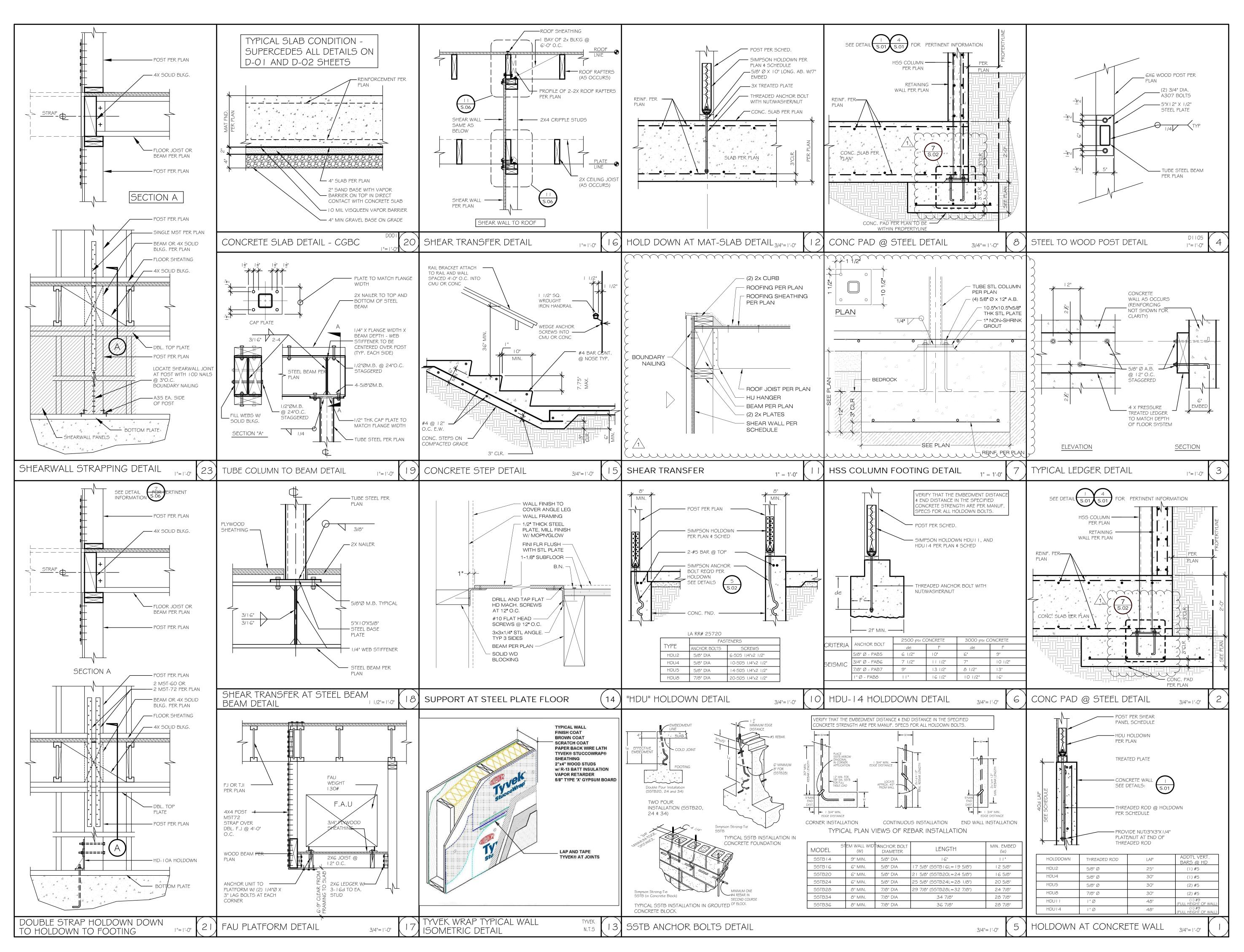
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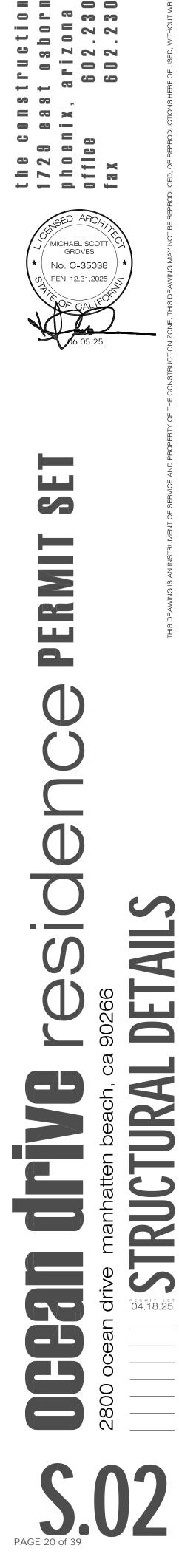
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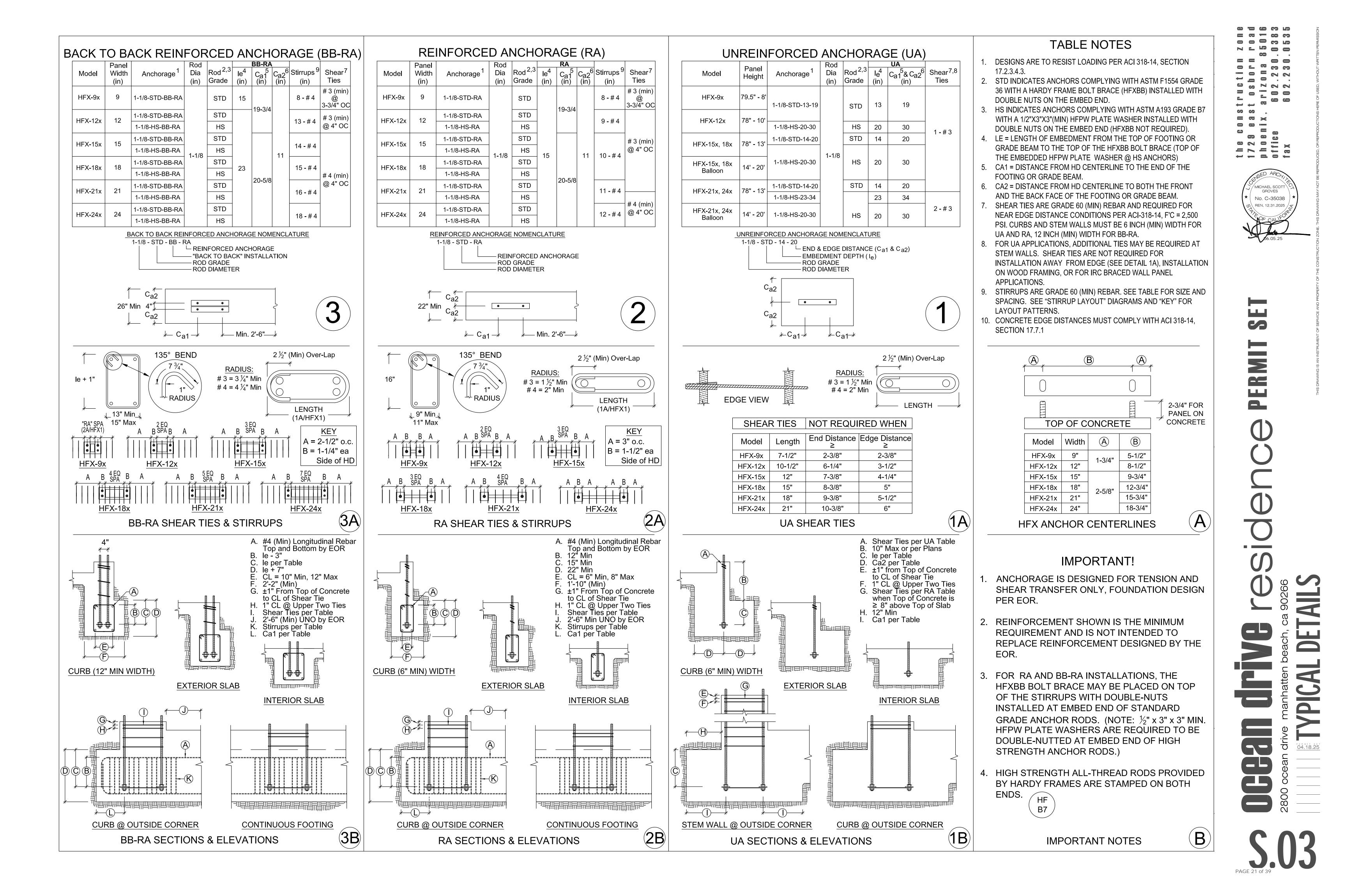
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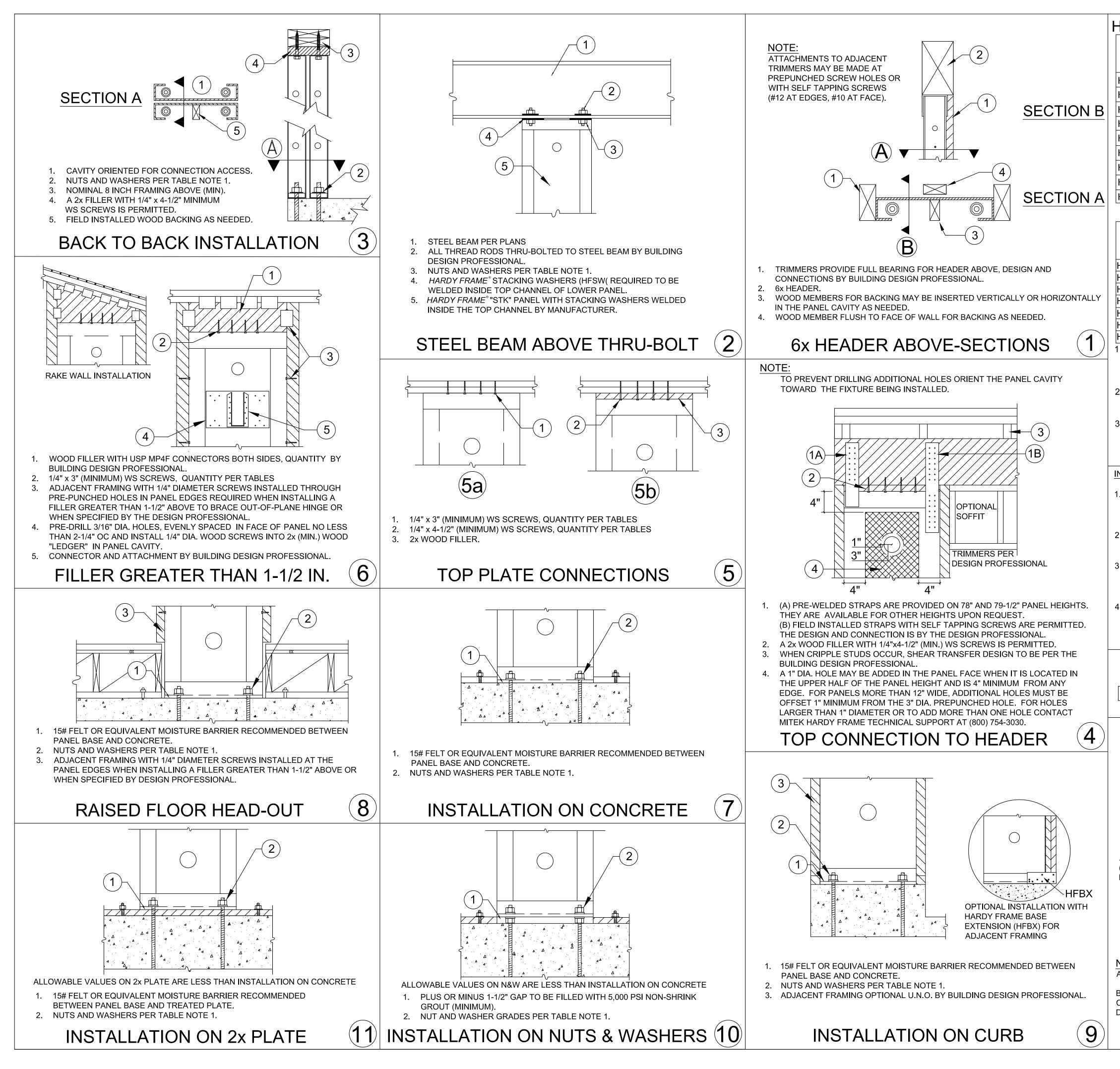
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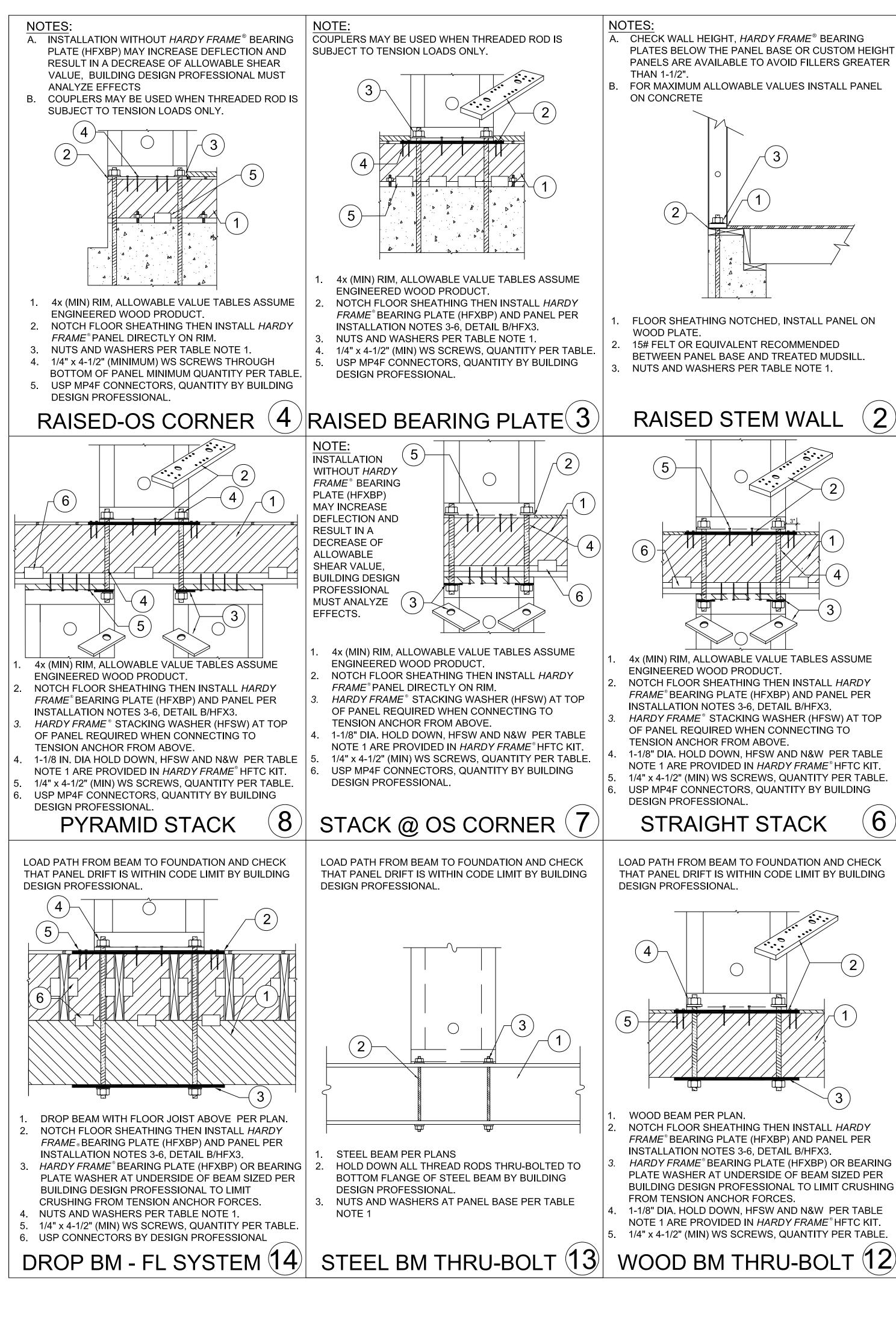


HFX PANELS 78 IN. THROUGH NOMINAL 13	
Model Height Depth Diameter ¹ Screw Qty ² Ava	ew Qty ailable at jes (ea) ³
HFX-12,15,18,21 & 24x78 78 9" Width = 5	
HFX-9x79.5 79-1/2 HFX-12,15,18,21 & 24x8 92-1/4 12" Width = 6	4
HFX-9x8 93-3/4 3-1/2 1-1/8 15" Width = 8	
HFX-12,15,18,21 & 24x9 104-1/4 HFX-12,15,18,21 & 24x10 116-1/4 18" Width = 10	
HFX-15,18,21 & 24x11 128-1/4 21" Width = 12	5
HFX-15,18,21 & 24x12 140-1/4 HFX-15,18,21 & 24x13 152-1/4	6
BALLOON PANELS 14 FEET THROUGH 20 F	FEET
Model Height Depth Diameter ¹ Screw Qty ² Av	rew Qty ailable at ges (ea) ³
HFX-15,18,21 & 24x14 164-1/4 15" Width = 8	
HFX-15,18,21 & 24x15 176-1/4 HFX-15,18,21 & 24x16 188-1/4 18" Width = 10	6
HFX-15,18,21 & 24x17 200-1/4 3-1/2 1-1/8 HFX-15,18,21 & 24x18 212-1/4 21" Width = 12	7
HFX-15,18,21 & 24x19 224-1/4 HFX-15,18,21 & 24x20 236-1/4 24" Width = 14	8
I. HOLD DOWN ANCHOR BOLTS CONNECT TO THE PANEL BASE WITH HARDENED ROUND WASHERS BELOW GRADE 8 NUTS. ALTERNATE	
WASHERS ARE (2 EA) ROUND-FLAT OR (2 EA) SAE WASHERS ON EAC BOLT. ALTERNATE NUTS ARE 2H HEAVY HEX.	CH
2. 1/4" DIAMETER MITEK [®] PRO SERIES [™] WS SCREWS. LENGTH IS 3" (MIN	,
WHEN ATTACHED DIRECTLY TO THE COLLECTOR AND 4-1/2" (MINIMU WHEN INSTALLING A 2x FILLER ABOVE THE PANEL.	,
3. ADJACENT FRAMING WITH 1/4" DIAMETER SCREWS IS REQUIRED AT PANEL EDGES WHEN INSTALLING A FILLER ABOVE THE TOP CHANN	
THAT IS GREATER THAN 1-1/2" OR WHEN SPECIFIED BY THE DESIGN PROFESSIONAL.	
NSTALLATION INSTRUCTIONS	
	DUND
WASHER BELOW (1 EA) GRADE 8 NUT, SECURE WITH A DEEP SOCKET (RECOMMENDED) UNTIL SNUG TIGHT. ALTERNATE WASHERS AND NUTS	
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MICHAEL SCO GROVES No. C-35038 REN. 12.31.202

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HARDY FRAME[®] BEARING PLATE (HFXBP) OR BEARING PLATE WASHER AT UNDERSIDE OF BEAM SIZED PER BUILDING DESIGN PROFESSIONAL TO LIMIT CRUSHING

6

1-1/8" DIA. HOLD DOWN, HFSW AND N&W PER TABLE NOTE 1 ARE PROVIDED IN HARDY FRAME® HFTC KIT. 1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE.

HARDY FRAME[®] STACKING WASHER (HFSW) AT TOP

ACCESS HOLE LOCATED AT EDGE OF POST.

PLUS OR MINUS 1-1/2" GAP TO BE FILLED WITH

POST ON N&W

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4x (MIN) RIM, ALLOWABLE VALUE TABLES ASSUME

NOTCH FLOOR SHEATHING THEN INSTALL HARDY

USP POST CAP AND POST BASE BY THE BUILDING

1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER

CRIPPLE WALL

4x (MIN) RIM, ALLOWABLE VALUE TABLES ASSUME

NOTCH FLOOR SHEATHING THEN INSTALL HARDY

INSTALLATION NOTES 3-6, DETAIL B/HFX3.

FRAME[®] BEARING PLATE (HFXBP) AND PANEL PER

1-1/8" DIA. HOLD DOWN, HFSW AND N&W PER TABLE

NOTE 1 ARE PROVIDED IN HARDY FRAME[®]HFTC KIT.

1/4" x 4-1/2" (MIN) WS SCREWS, QUANTITY PER TABLE

USP MP4F CONNECTORS, QUANTITY BY BUILDING

ENGINEERED WOOD PRODUCT

DESIGN PROFESSIONAL.

INSTALLATION NOTES 3-6, DETAIL B/HFX3.

NUTS AND WASHERS PER TABLE NOTE 1.

FRAME[®] BEARING PLATE (HFXBP) AND PANEL PER

DESIGN PROFESSIONAL

(3)

(4)-

HARDY FRAME[®] POST (HFP)

TABLE.

ENGINEERED WOOD PRODUCT

5.000 PSI STRENGTH NON-SHRINK GROUT (MIN)

NUTS AND WASHERS PER TABLE NOTE 1.

	Net		Hold Down	Screw	Quant	ity	Screw Qty ⁴
Model	Height	Depth	Diameter ¹		Top ²	Bott ³	Available at
Number	(in)	(in)	(in)	Panel	(ea)	(ea)	Edges (ea)
HFX-12,15,18,21 & 24x8	92-1/4			12" Width	6	6	4
HFX-12,15,18,21 & 24x9	104-1/4			15" Width	8	8	
HFX-12,15,18,21 & 24x10	116-1/4	3-1/2	1-1/8	18" Width 21" Width	10 12	10 12	5
HFX-15,18,21 & 24x11	128-1/4	0 172	1-1/0	24" Width	14	14	5
HFX-15,18,21 & 24x12	140-1/4						6
HFX-15,18,21 & 24x13	152-1/4						6

HEAVY HEX.

PRODUCT (EWP).

PLACE PANEL ON HFXBP.

3" - PANEL WIDTH - 3"

HFXBP1

(4)

••

ANCHOR FROM ABOVE

DESIGN PROFESSIONAL.

EACH END.

AVAILABLE.

5

5

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HARDY FRAME[®] POST (HFP)

NOTE: HARDY FRAME[®] STACKING WASHERS (HFSW) ARE REQUIRED IN THE TOP OF PANELS WHEN CONNECTING TO TENSION ANCHORS FROM ABOVE. HARDY FRAME® "STK PANELS" INCLUDE HFSW WASHERS PRE-WELDED IN THE TOP CHANNEL

HOLD DOWN TENSION ANCHORS SPECIFIED AS STANDARD GRADE (STD) MUST COMPLY WITH ASTM F1554 GRADE 36 (OR EQUAL). HOLD DOWN TENSION ANCHORS SPECIFIED AS HIGH STRENGTH (HS) MUST COMPLY WITH ASTM A 193 GRADE B7 (OR EQUAL). TENSION ANCHORS (BOTH GRADES) CONNECT TO THE UPPER AND LOWER PANELS WITH HARDENED ROUND WASHERS AND GRADE 8 NUTS. A HARDY FRAME[®] 'HFSW" STACKING WASHER IS REQUIRED IN THE TOP CHANNEL OF THE LOWER PANEL (AVAILABLE PRE-WELDED IN A HARDY FRAME[®]"STK" PANEL). ALTERNATE WASHERS ARE (2 EA) ROUND-FLAT OR (2 EA) SAE WASHERS AT EACH ANCHOR CONNECTION. ALTERNATE NUTS ARE 2H

1/4" DIAMETER MITEK[®] PRO SERIES[™] WS SCREWS. LENGTH IS 3" (MINIMUM) WHEN ATTACHING DIRECTLY TO THE COLLECTOR AND 4-1/2" (MINIMUM) WHEN INSTALLING A 2x FILLER ABOVE THE PANEL 1/4" DIAMETER MITEK[®] PRO SERIES[™] WS SCREWS. LENGTH IS 4-1/2" (MINIMUM) AT CONNECTIONS TO FLOOR SYSTEMS AND BEAMS BELOW.

1/4" DIAMETER SCREWS ARE REQUIRED AT THE EDGES WHEN INSTALLING A FILLER GREATER THAN 1-1/2 INCH ABOVE OR WHEN SPECIFIED BY THE DESIGN PROFESSIONAL

INSTALLATION ON FLOOR SYSTEMS WITH HARDY FRAME[®] BEARING PLATE (HFXBP) WITH HOLES PRE-DRILLED FOR 1-1/8" DIA. TENSION ANCHORS, INSTALL A SOLID 4x (MINIMUM) RIM IN FLOOR SYSTEM AT PANEL LOCATION. ALLOWABLE VALUE TABLES ASSUME THE RIM IS ENGINEERED WOOD

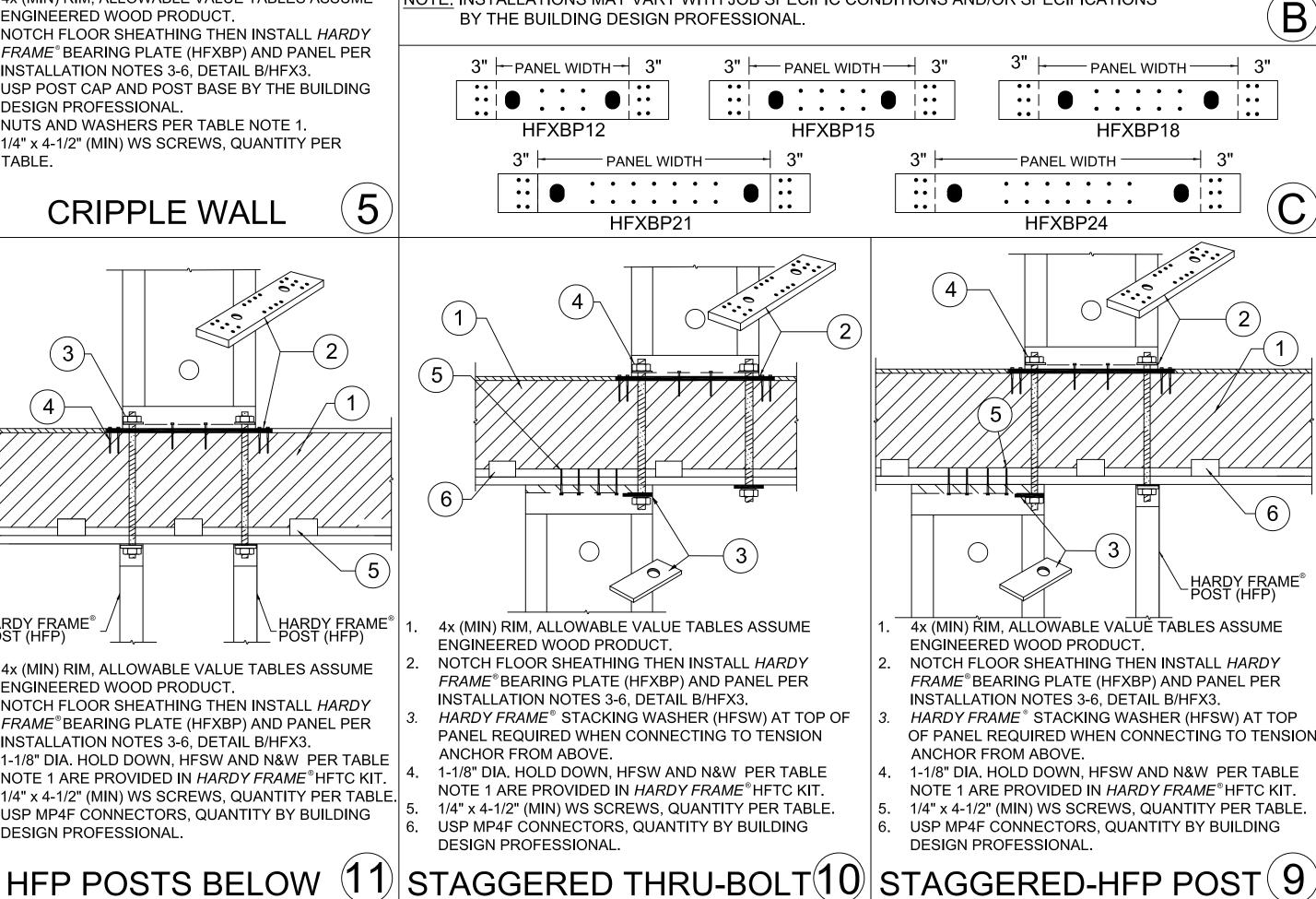
NOTCH FLOOR SHEATHING THEN INSTALL HFXBP ON RIM WITH 6 EACH 1/4"X4-1/2" (MIN) "WS" SCREWS AT

WHEN STACKING PANELS, INSTALL "HFSW" STACKING WASHERS IN THE TOP CHANNEL OF THE LOWER PANEL. CONNECT LOWER TO UPPER PANELS WITH TENSION ANCHORS (GRADE PER PLANS) AND SECURE AT BOTH ENDS WITH HARDENED ROUND WASHERS AND GRADE 8 NUTS TO BE SNUG TIGHT. HARDY FRAME "STK" PANELS THAT INCLUDE "HFSW" STACKING WASHERS PRE-WELDED IN THE TOP CHANNEL ARE

WHEN MORE THAN 12 SCREWS ARE REQUIRED FOR THE BOTTOM CONNECTION OR JOINTS IN FRAMING MEMBERS OCCUR AT SCREW LOCATIONS, INSTALL ADDITIONAL 1/4"x4-1/2" WS SCREWS THROUGH THE BASE OF PANEL WHERE THEY ALIGN WITH HOLES IN THE HFXBP.

FOR STANDARD WALL HEIGHTS, INSTALL A 2x FILLER ABOVE PANEL (DTL 5/HFX2). FOR FILLERS GREATER THAN 1-1/2 IN. SEE DETAIL 6/HFX2.

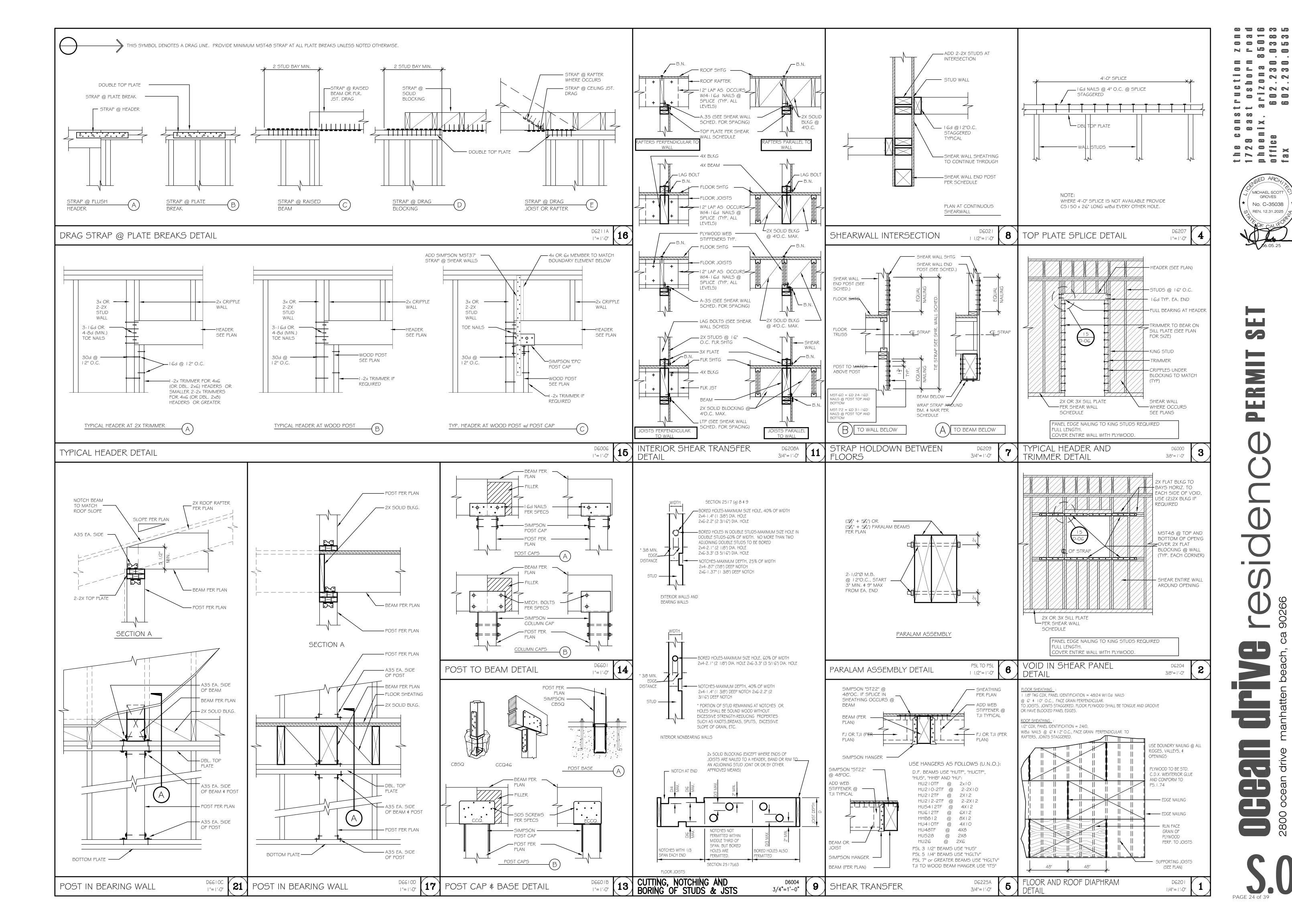
NOTE: INSTALLATIONS MAY VARY WITH JOB SPECIFIC CONDITIONS AND/OR SPECIFICATIONS BY THE BUILDING DESIGN PROFESSIONAL.



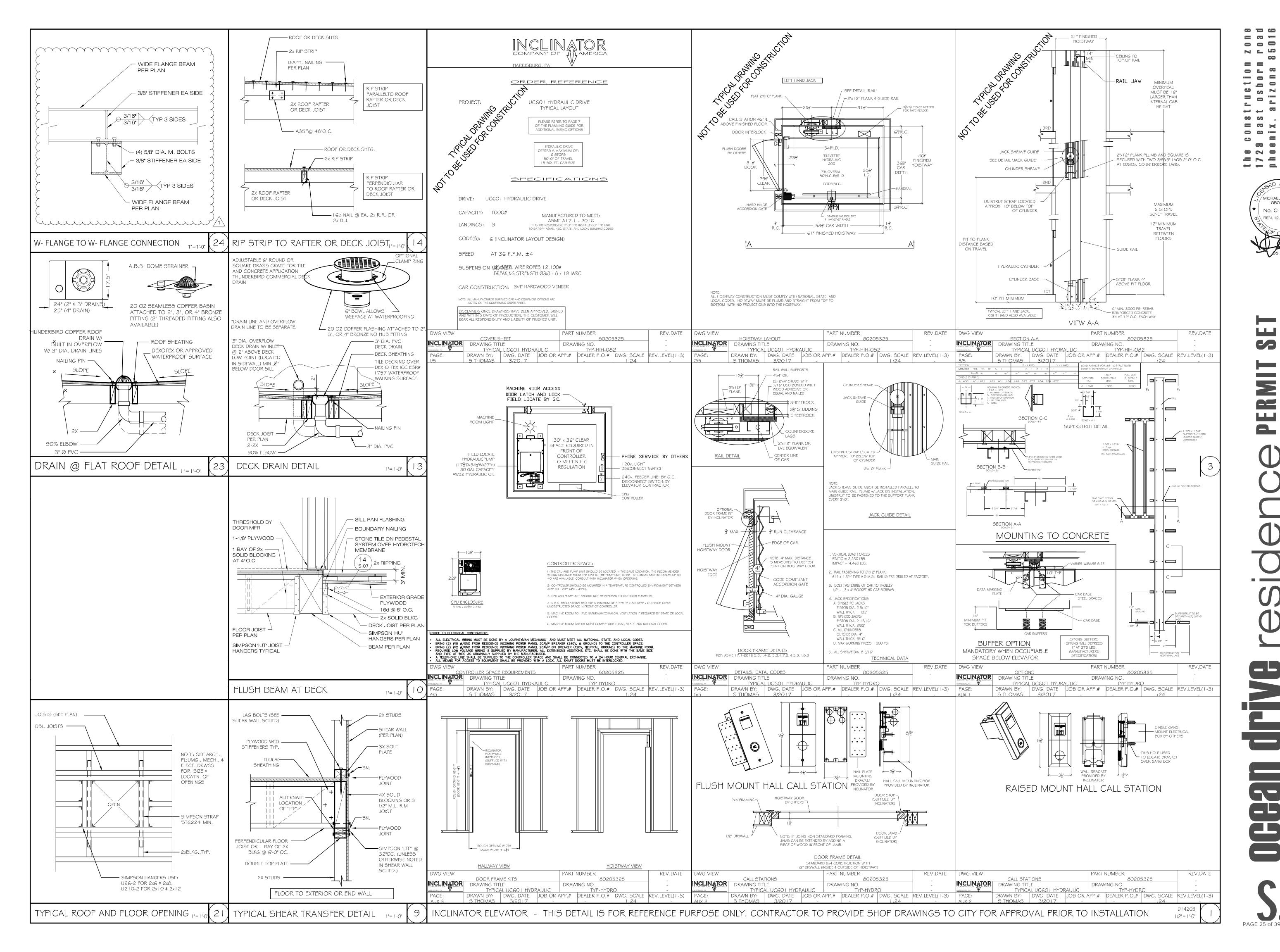


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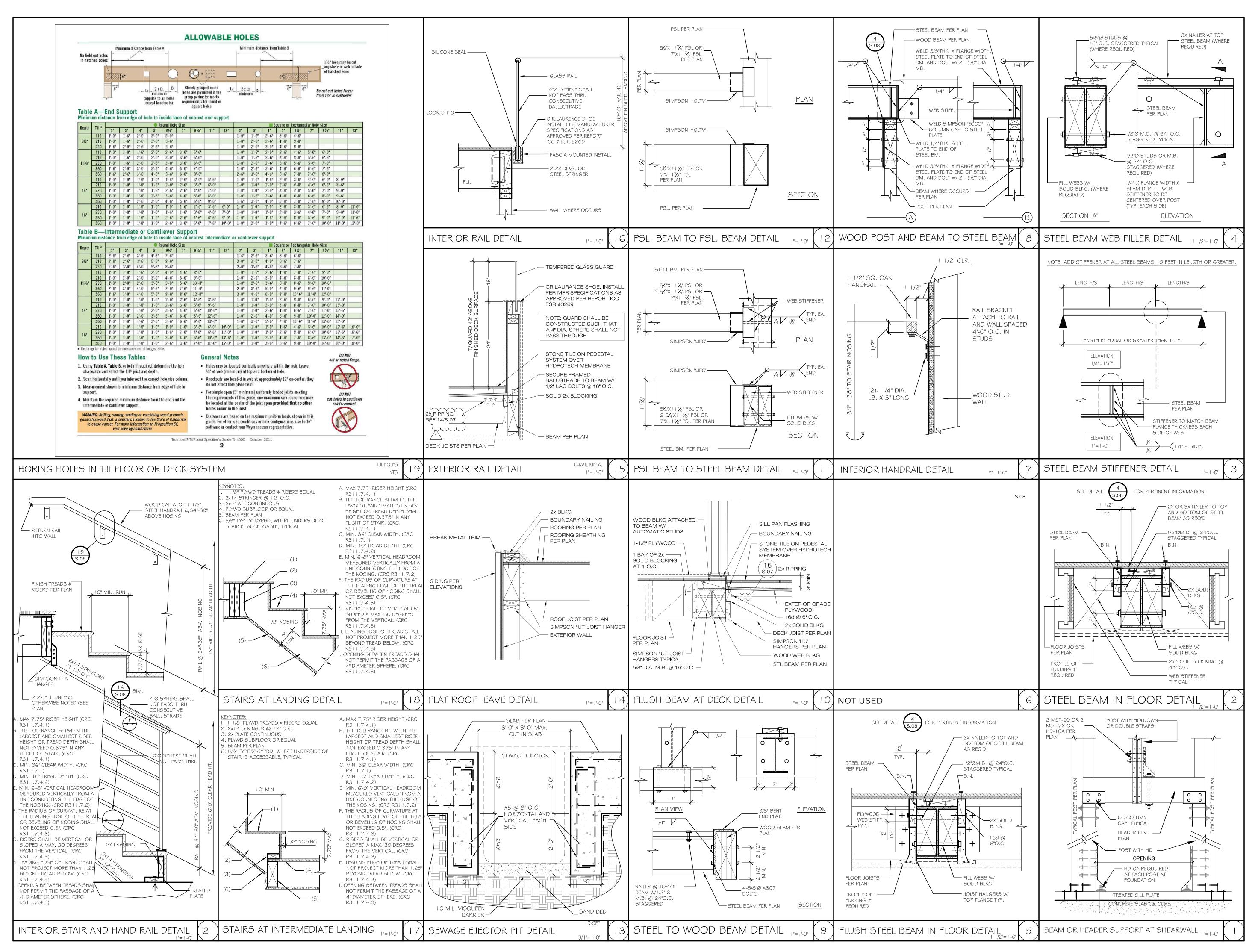
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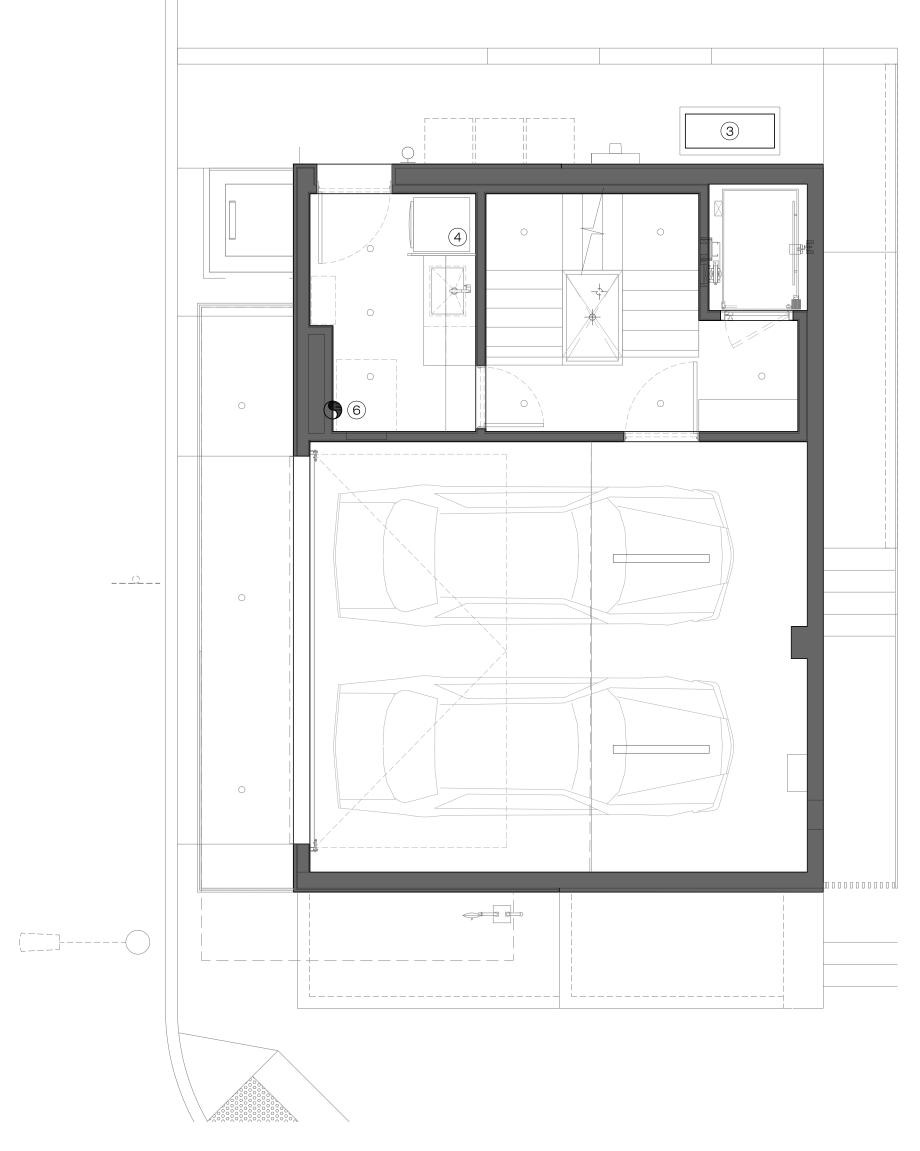
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MECHANICAL NOTES:

- BEGINNING INSTALLATION
- 2. ALL DUCTS IN GARAGES AND DUCTS PENETRATING GARAGE WALLS OR CEILING SHALL BE CONSTRUCTED OF A MINIMUM 26 GA SHEET METAL AND HAVE NO OPENINGS INTO GARAGE PER R302.5.2
- 3. PROVIDE FRESH AIR INTAKE HOOD AT ROOF TO HONEYWELL EARD6 MOTORIZED DAMPER CONTROLLED BY ACONT850 VENTILATION OPERATION TO PROVIDE 75 CFM CONSTANT VENTILATION PER TABLE M1507.3.3(2) OF THE 2015 IRC. LOCAL EXHAUST RATES SHALL MEET
- TABLE M1507.4 4. PROVIDE COMBUSTION AIR TO EXTERIOR FOR H.W. HEATER AS REQUIRED BY MANUFACTURER AND CPC CHAPTERS 3, 5 AND CMC CHAPTER 7
- 5. MECHANICAL VENTILATION IN LAUNDRY, BATHROOMS, AND TOILET ROOMS SHALL FURNISH NOT LESS THAN 5 AIR CHANGES PER HOUR DIRECT TO OUTSIDE AIR
- 6. ALL HEATING SYSTEMS SHALL HAVE AN AUTOMATIC THERMOSTAT WITH A CLOCK MECHANISM WHICH THE BUILDING OCCUPANT CAN MANUALLY PROGRAM TO AUTOMATICALLY SET BACK THE THERMOSTAT SET POINTS AT LEAST 2 PERIODS WITHIN 24 HOURS (CEC250(i))
- 7. THE AIR HANDLING DUCT SYSTEM WILL BE CONSTRUCTED, INSTALLED AND SEALED AS PROVIDED IN SECTIONS 603 AND 604 OF THE STATE MECHANICAL CODE (CEC150(m))



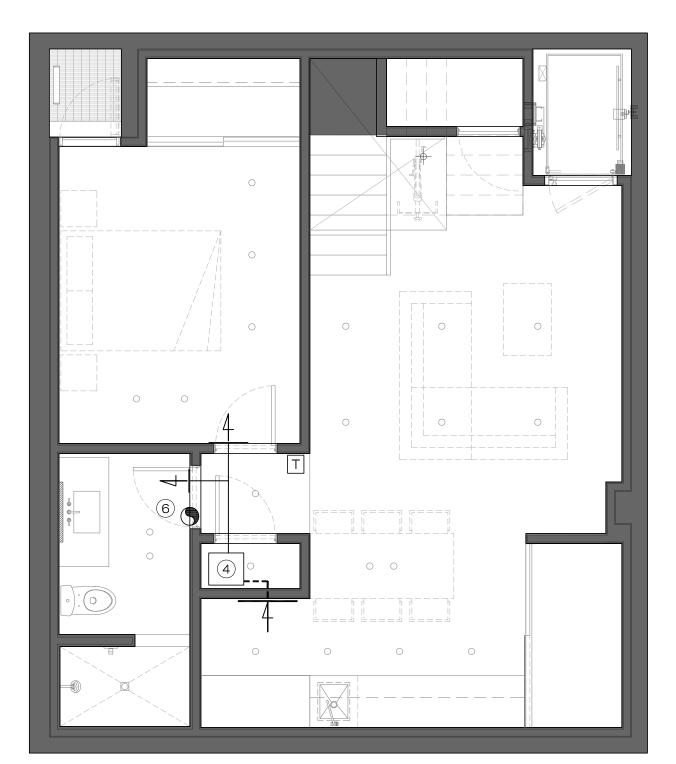
2 GROUND FLOOR MECHANICAL PLAN SCALE: 1/4"=1'-0"

DIAGRAMMATIC. THE CONTRACTOR SHALL COORDINATE REQUIRED SIZES WITH MECHANICAL SUBCONTRACTOR AND SUBMIT PROPOSED LAYOUT TO ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO

- 1. LOCATIONS OF DUCTS, REGISTERS AND MECHANICAL EQUIPMENT ARE 8. ALL ELECTRICAL, MECHANICAL AND PLUMBING FIXTURES AND EQUIPMENT SHALL BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY. TESTING BY AN APPROVED TESTING LABORATORY WILL BE REQUIRED BEFORE FINAL APPROVAL IS GRANTED, OR SPECIAL INSPECTION BILL BE REQUIRED TO ENSURE COMPLIANCE WITH THE NEC, ANSI AND NEMA STANDARDS. MANUFACTURER'S DATA SHEETS, TEST REPORTS, ETC SHALL BE PROVIDED TO ALLOW FOR EVALUATION.
 - 9. REFRIGERANT LINE SETS CANNOT EXCEED MANUFACTURER'S DISTANCE ALLOWANCES. CONFIRM LOCATION FOR LINE SETS WITH ARCHITECT.
 - 10. AUTO SHUT-OFFS ARE REQUIRED IN SYSTEMS WITH EXCESS OF 2,000 CFM PER UMC SECTION 608, AS OCCURS
 - 11. EXHAUST HOOD SHALL COMPLY WITH UMC SECTION 505.7 12. CONTRACTOR SHALL POST THE INSTALLATION CERTIFICATE (CF-6R) FORM AND INSULATION CERTIFICATE (IC-1) FORM IN A CONSPICUOUS LOCATION OR KEPT WITH PLANS AND MADE AVAILABLE TO THE INSPECTOR
 - 13. CONTRACTOR SHALL PROVIDE COPIES OF THE CALIFORNIA GUIDE TO HOME COMFORT AND ENERGY SAVINGS, CF-1R, MF-1R, CF-6R AND IC-1 FORMS TO THE BUILDING OWNER
 - 14. A DOMESTIC CLOTHES DRYER DUCT SHALL BE OF METAL AND A MINIMUM OF 4" IN DIAMETER. THE EXHAUST DUCT SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF 14', INCLUDING (2) 90-DEGREE ELBOS. TWO FEET SHALL BE DEDUCTED FOR EACH 90-DEGREE ELBOW IN EXCESS OF TWO (CMU 504.4.2)
 - 15. ALL NEW CONSTRUCTION AND ADDITIONS EXCEEDING 1,000 SF SHALL MEET THE REQUIREMENTS OF ANSI/ASHRAE 62.2 VENTILATION AND ACCEPTABLE INDOOR AIR QUALITY IN LOW-RISE RESIDENTIAL BUILDINGS



- 1. 4" DRYER VENT THOUGH WALL. INSTALL METAL DRYER BOX TO ALLOW FOR "NO KINK" CONNECTION. GC/OWNER SHALL PROVIDE ACTUAL DRYER SPECS BEFORE ROUGH-IN.
- 2. 8" RANGE HOOD EXHAUST PROVIDE FULL SIZE DUCT THROUGH ROOF TO WEATHER CAP WITH BACKDRAFT DAMPER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FAN MUST MEET IRC EFFICACY STANDARDS PER TABLE N1103.6.1 OF THE 2018 IRC.
- 3. HEAT PUMP CONDENSOR. PLACE ON APPROVED PAD. TOP OF PAD TO BE A MINIMUM 4" ABOVE FINISH GRADE 4. AIR HANDLER ON SEALED METAL RETURN AIR PLENUM. AIR HANDLER SHALL MEET MIN. 2% LEAKAGE STANDARD. 3/4" TYPE M
- COPPER OR PVC PIPING SHALL RUN TO APPROVED DISPOSAL SITE. 5. MOUNT EXHAUST FAN IN SIDE WALL LIGHT COVE
- 6. WALL MOUNTED EXHAUST FAN 7. SUPPLY DUCT RISER TO ADJACENT LEVEL
- 8. DIFFUSER INTEGRATED WITH MILLWORK



1 BASEMENT MECHANICAL PLAN SCALE: 1/4"=1'-0"

MECHANICAL SYMBOLS

WALL MOUNTED SUPPLY AIR DIFFUSER

 \square CEILING MOUNTED SUPPLY AIR DIFFUSER

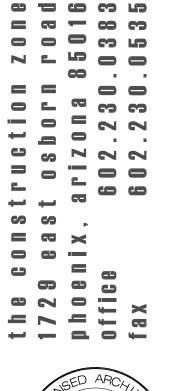
WALL MOUNTED RETURN AIR GRILL

CEILING MOUNTED RETURN AIR GRILL

DUCT RISER

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	SUPPLY DUCT
	RETURN DUCT
Т	THERMOSTAT
	EXHAUST FAN







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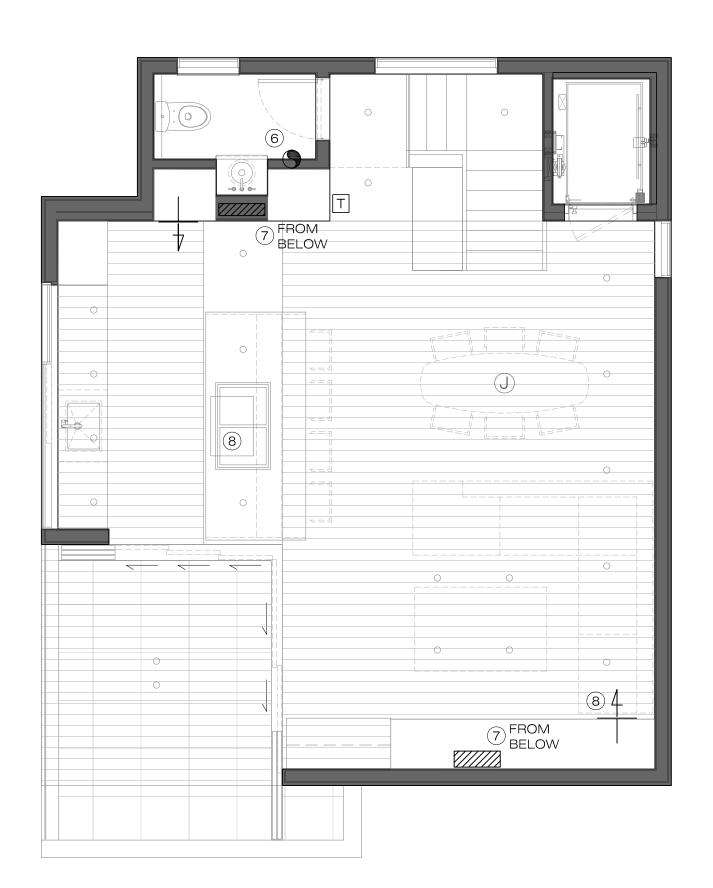


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2 THIRD FLOOR MECHANICAL PLAN SCALE: 1/4"=1'-0"

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KEYED NOTES #-

- 1. 4" DRYER VENT THOUGH WALL. INSTALL METAL DRYER BOX TO ALLOW FOR "NO KINK" CONNECTION. GC/OWNER SHALL PROVIDE ACTUAL DRYER SPECS BEFORE ROUGH-IN.
- 2. 8" RANGE HOOD EXHAUST PROVIDE FULL SIZE DUCT THROUGH ROOF TO WEATHER CAP WITH BACKDRAFT DAMPER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FAN MUST MEET IRC EFFICACY STANDARDS PER TABLE N1103.6.1 OF THE 2018 IRC.
- 3. HEAT PUMP CONDENSOR. PLACE ON APPROVED PAD. TOP OF PAD TO BE A MINIMUM 4" ABOVE FINISH GRADE 4. AIR HANDLER ON SEALED METAL RETURN AIR PLENUM. AIR HANDLER SHALL MEET MIN. 2% LEAKAGE STANDARD. 3/4" TYPE M
- COPPER OR PVC PIPING SHALL RUN TO APPROVED DISPOSAL SITE. 5. MOUNT EXHAUST FAN IN SIDE WALL LIGHT COVE
- 6. WALL MOUNTED EXHAUST FAN 7. SUPPLY DUCT RISER TO ADJACENT LEVEL
- 8. DIFFUSER INTEGRATED WITH MILLWORK

EEE (7) TO ABOVE E===

MECHANICAL SYMBOLS

WALL MOUNTED SUPPLY AIR DIFFUSER

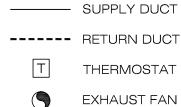
 \square CEILING MOUNTED SUPPLY AIR DIFFUSER

WALL MOUNTED RETURN AIR GRILL

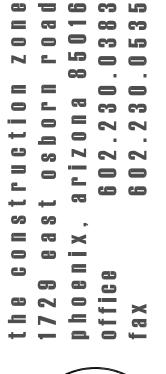
CEILING MOUNTED RETURN AIR GRILL

DUCT RISER

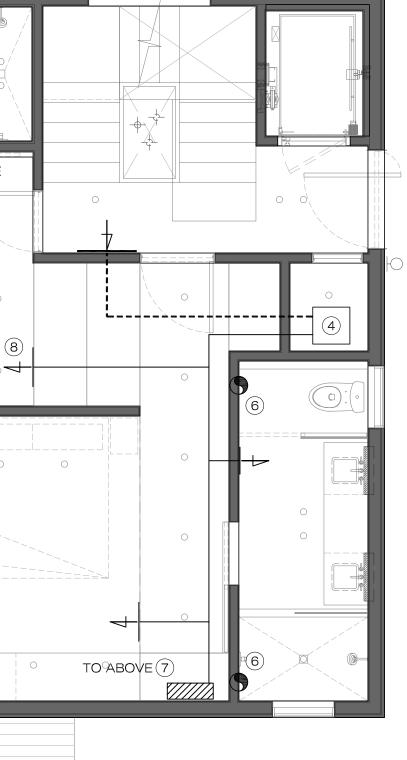
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EXHAUST FAN







1 SECOND FLOOR MECH PLAN SCALE: 1/4"=1'-0"





MECHANIC

04.18.25 06.06.25

ELECTRICAL SYMBOLS

- DUPLEX CONVENIENCE OUTLET, 15A, 125V ⇔ MTD @ 12" AFF, U.N.O.
- QUAD CONVENIENCE OUTLET, 15A, 125V \oplus MTD @ 12" AFF, U.N.O.
- GFI, DUPLEX CONVENIENCE OUTLET, 15A, \oplus 125V, MTD @ 12" AFF, U.N.O. PROVIDE LISTED WEATHER RESISTANT DEVICES FOR ALL DAMP AND WET LOCATIONS (IN ADDITION TO THE WP OR WP-WHILE-IN-USE COVER)
- DUPLEX CONVENIENCE OUTLET, 15A, 125V, \ominus MTD @ 42" AFF, U.N.O.
- GFI, DUPLEX CONVENIENCE OUTLET, 15A, 125V, MTD 3" ABOVE COUNTERTOP OR APPROXIMATELY 42" AFF, U.N.O.
- FLUSH MOUNTED FLOOR DUPLEX \bigcirc CONVENIENCE OUTLET, 15A, 125V
- DUPLEX CONVENIENCE OUTLET; SPLIT WIRE, WITH TIE-BAR REMOVED. 15A, 125V MTD @ 18" AFF U.N.O.
- JUNCTION BOX ABOVE CEILING OR FLUSH IN \bigcirc WALL - REFER TO EQUIPMENT SPEC'S
- DISCONNECT SWITCH, WITH RATING PER 4 EQUIPMENT SPECIFICATIONS
- 120-VOLT SMOKE & CARBON MONOXIDE 6/9 DETECTOR WITH BATTER BACK-UP. MOUNT ON WALL WITHIN 4-12" OF CEILING, U.N.O. INTERCONNECT DETECTORS FOR SIMULTANEOUS OPERATION

ELECTRICAL NOTES

- 1. ALL DEVICES TO BE DECORA STYLE, COLOR AND FINISH TO BE SELECTED BY ARCHITECT. DEVICE COVER PLATE COLOR AND FINISH TO BE SELECTED BY ARCHITECT
- 2. ALL 15- AND 20-AMP, 125 VOLT AND 240 VOLT NONLOCKING-TYPE RECEPTACLES TO BE TAMPER RESISTANT PER NEC 406.12
- 3. ALL 120 VOLT, SINGLE PHASE, 15- AND 20-AMP BRANCH RECEPTACLES AT ALL LIVING AREAS, KITCHEN AND LAUNDRY TO BE AFCI C/B PROTECTED PER NEC 210.12(A)
- 4. COORDINATE MOUNTING HEIGHT AND POWER REQUIREMENTS FOR OUTLETS/J-BOXES AT ALL APPLIANCES AND EQUIPMENT
- KEYED NOTES (#)-
- 1. SWITCHED OUTLET
- 2. OVEN: PROVIDE J-BOX (HEIGHT TO BE VERIFIED)
- 3. DISHWASHER/DISPOSAL: PROVIDE HALF SWITCHED DUPLEX RECEPTACLE BELOW SINK. 4. GARBAGE DISPOSAL SWITCH: GANG WITH RECEPTACLE UNDER
- COMMON COVER. 5. ALL RECEPTACLES WITHIN SIX FEET OF THE SINK TO BE GFCI
- LABELED AND PROTECTED. 6. CLOTHES WASHER: PROVIDE DUPLEX RECEPTACLE ABOVE
- WASHER, COORDINATE WITH WASHER UTILITY BOX 7. LOCATION FOR AV AND LIGHTING CONTROL PANELS
- 8. WALL MOUNTED TV OUTLET / VERIFY HEIGHT IN FIELD
- 9. ELECTRIC VEHICLE CHARGING PORT. VERIFY REQUIREMENTS
- 10. OUTLET LOCATED IN MILLWORK TOEKICK
- 11. OUTLET INSIDE MILLWORK
- 12. RECEPTACLE FLUSH MOUNTED IN WALL FOR GARAGE DOOR
- OPERATOR. VERIFY HEIGHT WITH OPERATOR MANUFACTURER 13. JUNCTION BOX MOUNTED IN WALL FOR GARAGE DOOR L.V. CONTROL CABLING
- 14. JUNCTION BOX @ +12" A.F.F. FOR GARAGE DOOR SENSOR LOW VOLTAGE CABLING
- 15. WALL MOUNTED RECEPTACLE UNDER COUNTER

APPLIANCES/EQUIP (#)-

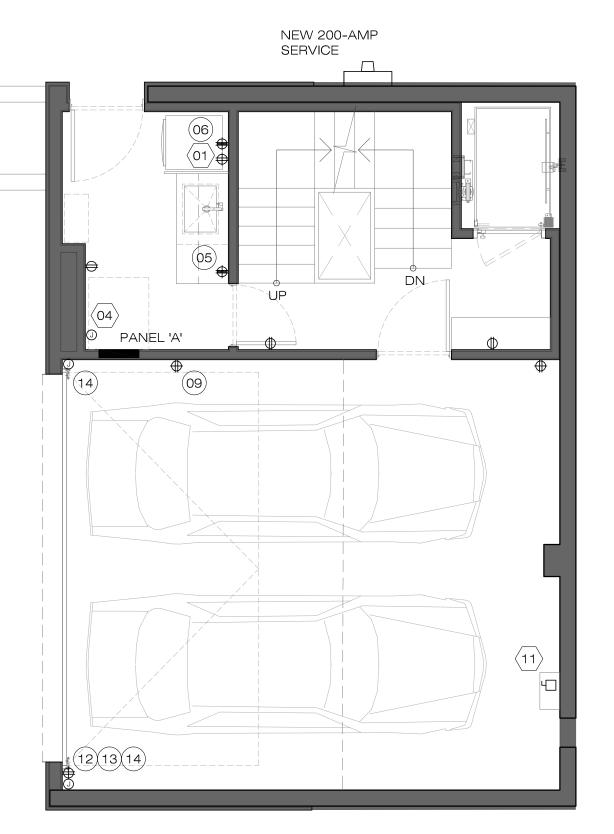
- 1. ELECTRIC CLOTHES DRYER
- 2. MICROWAVE
- 3. HVAC EQUIPMENT. COORDINATE REQUIREMENTS WITH
- MECHANICAL SUBCONTRACTOR
- 4. EXHAUST FAN / 300 CFM MAX 5. KITCHEN EXHAUST. ZEPHYR LUX ISLAND RANGE HOOD MODEL ALU-E43CSX W/ EXTERNAL BLOWER. FAN TO BE INTERLOCKED WITH MOTORIZED DAMPER CONTROLLING FRESH AIR INTAKE SYSTEM PROVIDING MAKEUP AIR
- 6. 36" INDUCTION COOKTOP
- 7. 30" COLUMN REFRIGERATOR
- 8. 30" COLUMN FREEZER
- 9. UNDER COUNTER REFRIGERATOR
- 10. EJECTOR PUMP / SUMP PUMP. GENERAL CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS
- 11. TANKLESS WATER HEATER
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- 13. DISHWASHER
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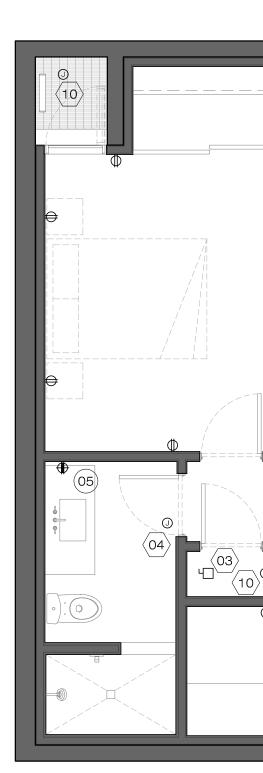
GENERAL NOTES

- NO ALUMINUM CONDUCTORS PERMITTED (NEC 310 AND 331 351) RECEPTACLE OUTLETS SHALL BE LOCATED 12" AFF U.N.O.
- ANY FIXED APPLIANCE SUCH AS DISPOSAL, DISHWASHER, CLOTHES W З. OTHER FIXED APPLIANCE WITH 1/4 H.P. MOTOR OR LARGER SHALL BE C WIRE BRANCH CIRCUIT. EACH DWELLING UNIT SHALL HAVE INSTALLED CIRCUIT WITH MIN. 12 AWG WIRE AND A 15-AMP INDICATING TYPE SWIT
- A MINIMUM OF (1) 20-AMP CIRCUIT SHALL BE PROVIDED FOR BATHROOM MAY SERVE MORE THAN ONE BATHROOM, BUT SHALL HAVE NO OTHEF
- ALL BRANCH CIRCUITS THAT SUPPLY 15- AND 20-AMP, SINGLE PHASE, 5. RECEPTACLES INSTALLED IN FAMILY, LIVING, BEDROOM, CLOSETS, HAL AREAS SHALL BE PROTECTED BY ARC-FAULT CIRCUIT INTERRUPTERS, (CEC 210-12(A)
- ALL RECEPTACLES IN BATHROOM SHALL BE PROTECTED WITH GFI PER 6. BATHROOM RECEPTACLES SHALL BE SERVED BY A DEDICATED 20-AMP 210.11(C)(3)
- ALL 125-V RECEPTACLES IN GARAGE (INCLUDING CEILING OUTLETS) SH 7. PROTECTION PER CEC SECTION 210.8(A)(2)
- ALL RECEPTACLE OUTLETS SHALL BE LISTED TAMPER-RESISTANT RECE 9 PROVIDE A MINIMUM OF (2) 20-AMP SMALL APPLIANCE CIRCUITS FOR T COUNTERTOPS. SUCH CIRCUITS SHALL HAVE NO OTHER OUTLETS AND BALANCED (CEC 210-11(C))
- PROVIDE A MINIMUM OF (1) 20-AMP LAUNDRY BRANCH CIRCUIT. SUCH 10. OTHER OUTLETS (CEC 210-11(C))
- PROVIDE A MINIMUM OF (1) 20-AMP BATHROOM BRANCH CIRCUIT. SUCI 11. OTHER OUTLETS (CEC 210-11(C)) 12. RECEPTACLE OUTLETS IN HABITABLE ROOMS SHALL BE SPACED AT 12'
- LOCATED WITHIN 6' OF WALL ENDS, DOOR OPENINGS AND AT EVERY 2' 210.52(A)) PROVIDE UNDERGROUND ELECTRICAL AND COMMUNICATION SERVICE LATERALS PER CITY 13.
- ORDINANCE SECTION 9.12.050 14. PANEL CIRCUIT DIRECTORY SHALL COMPLY WITH CEC SECTION 408.4

	1.		DWELLING UNIT SHALL HAVE A DEI
	2.		DWELLING UNIT SHALL HAVE A DEI
/ASHER, DRYER OR ANY			DRYER
ON SEPARATE @12 AWG	З.		ENERGY STORAGE SYSTEM (ESS) P
D AN INDIVIDUAL DISPOSAL			INCLUDE ONE OR TWO DWELLING
ITCH (NEC 210-23 AND 220)		3.1.	AT LEAST ONE OF THE FOL
OM OUTLETS. THIS CIRCUIT			ESS READY INTERCONN
R OUTLETS (CEC 210-11(C))			60 AMPS AND A MINIMU
, 15 AND 20-AMP			
LLWAYS OR OTHER LIVING			A DEDICATED 1" MINIMU
COMBINATION-TYPE PER			SUPPLIES THE BRANCH
			SUBPANEL SHALL INCL
R CEC ARTICLE 210.8(A).			ARE PERMITTED TO BE S
P CIRCUIT PER SECTION			INSTALLATION OF AN ES
		3.2.	A MINIMUM OF FOUR BRAN
HALL HAVE GFCI			OF SUPPLY CO-LOCATED A
			BY THE ESS. AT LEAST ONE
CEPTACLE PER CEC 406.12(A)			CIRCUIT NEAR THE PRIMAR
THE KITCHEN			SLEEPINNG ROOM RECEPT
D LOADS SHALL BE			SUPPLIED BY THE FOURTH
		3.3.	THE MAIN PANEL BOARD S
I CIRCUIT SHALL HAVE NO		3.4.	
		0111	ISOLATION EQUIPMENT/TRA
CH CIRCUIT SHALL HAVE NO			RACEWAYS SHALL BE INST
			ISOLATION EQUIPMENT TRA
2' O.C. MAX AND SHALL BE			BACKUP POWER SOURCE.
2' OR WIDER WALL (CEC			BACKOLI OWEN SOURCE.

ENEF	RGY EFFICIENCY NOTES
1. 2.	DWELLING UNIT SHALL HAVE A DEDICATED 240 VOLT BRANCH CIRCUIT SERVING THE COOKTOP DWELLING UNIT SHALL HAVE A DEDICATED 240 VOLT BRANCH CIRCUIT SERVING AN ELECTRIC DRYER
3.	ENERGY STORAGE SYSTEM (ESS) PER SECTION 150.0(S): ALL SINGLE FAMILY RESIDENCES THAT INCLUDE ONE OR TWO DWELLING UNITS SHALL MEET THE FOLLOWING:
3.1.	AT LEAST ONE OF THE FOLLOWING SHALL BE PROVIDED: ESS READY INTERCONNECTION EQUIPMENT WITH A MINIMUM BACKED UP CAPACITY OF 60 AMPS AND A MINIMUM OF FOUR ESS SUPPLIED BRANCH CIRCUITS
	A DEDICATED 1" MINIMUM RACEWAY FROM THE MAIN SERVICE TO A SUBPANEL THAT SUPPLIES THE BRANCH CIRCUITS IN #3.2 BELOW. THE SUBPANEL MUST BE LABELED "SUBPANEL SHALL INCLUDE ALL BACKED UP LOAD CIRCUITS." ALL BRANCH CIRCUITS ARE PERMITTED TO BE SUPPLIED TO THE MAIN SERVICE PANEL PRIOR TO THE INSTALLATION OF AN ESS
3.2.	A MINIMUM OF FOUR BRANCH CIRCUITS SHALL BE IDENTIFIED AND HAVE THEIR SOURCE OF SUPPLY CO-LOCATED AT THE SUBPANEL REFERENECED IN 3.1 ABOVE TO BE SUPPLIED BY THE ESS. AT LEAST ONE CIRCUIT MUST SUPPLY THE REFRIGERATOR, ONE LIGHTING CIRCUIT NEAR THE PRIMARY EGRESS, AND AT LEAST ONE CIRCUIT SHALL SUPPLY A SLEEPINNG ROOM RECEPTACLE OUTLET. THERE IS NO REQUIREMENT FOR WHAT IS TO BE SUPPLIED BY THE FOURTH CIRCUIT.
3.3. 3.4.	THE MAIN PANEL BOARD SHALL HAVE A MINIMUM BUSBAR RATING OF 225 AMPS SUFFICIENT SPACE SHALL BE RESERVED TO ALLOW FUTURE INSTALLATION OF A SYSTEM ISOLATION EQUIPMENT/TRANSFER SWITCH WITHIN 3 FEET OF THE MAIN PANEL BOARD. RACEWAYS SHALL BE INSTALLED BETWEEN THE PANEL BOARD AND THE SYSTEM ISOLATION EQUIPMENT TRANSFER SWITCH LOCATION TO ALLOW THE CONNECTION OF





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

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

1

2.

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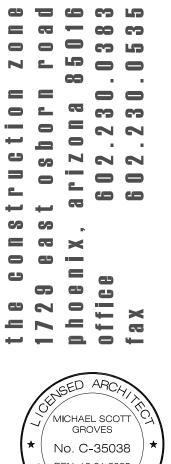
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0' 2' 4'







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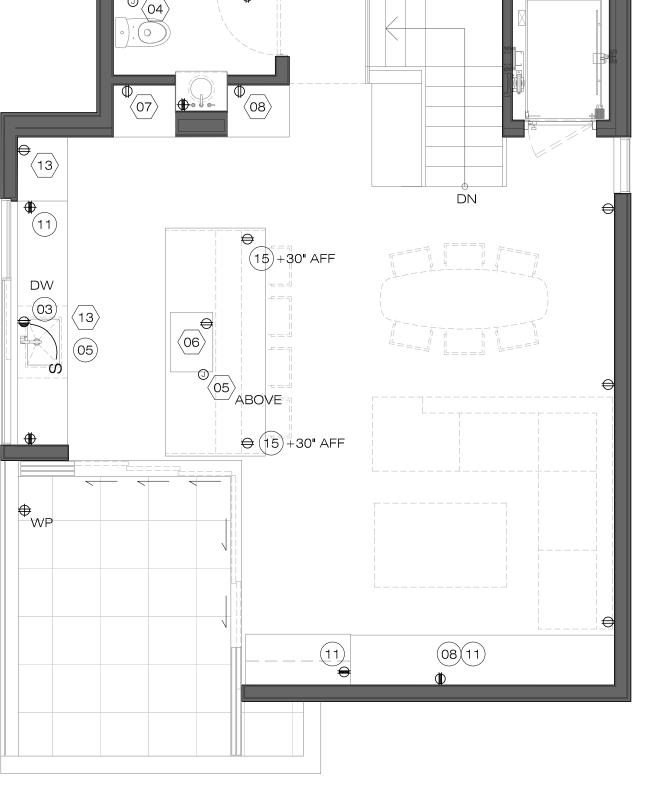
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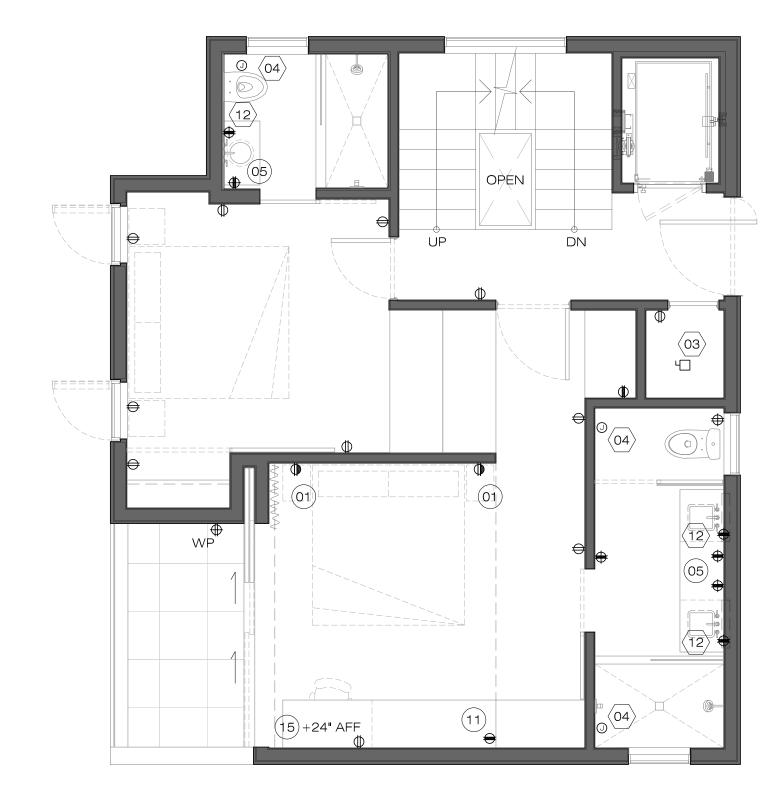
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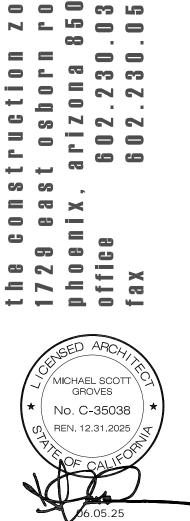
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2 THIRD FLOOR POWER PLAN SCALE: 1/4"=1'-0"









 $c_1, c_2, \ldots, c_n = c_n$





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0' 2' 4'





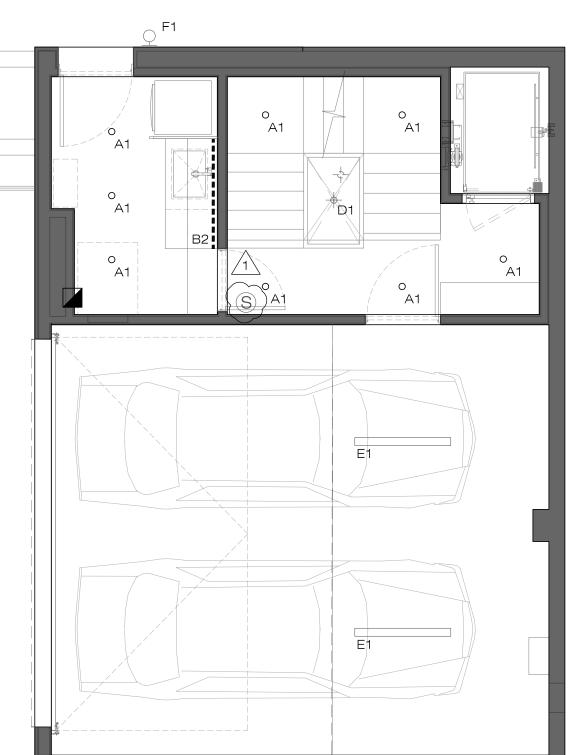
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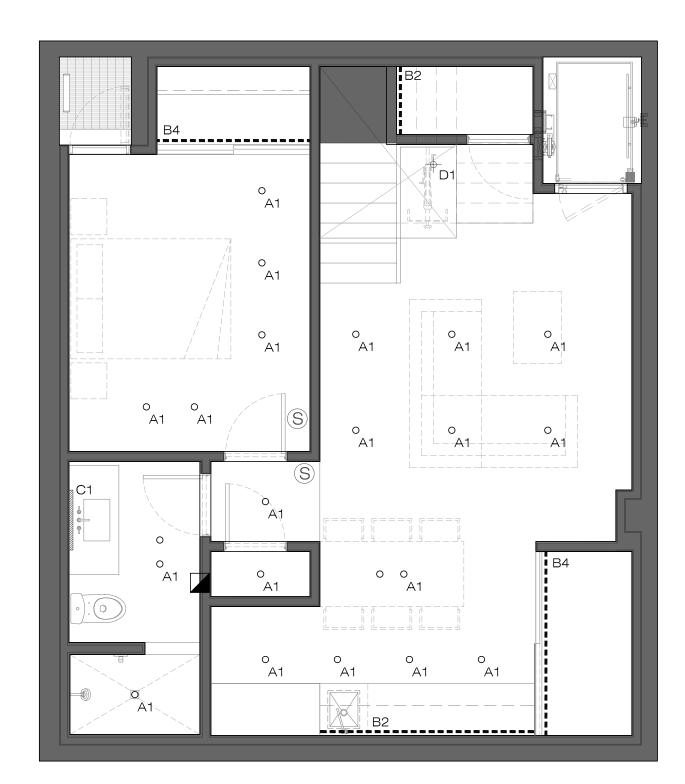
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- 2. PROVIDE POWER AT ALL SHADE / CURTAIN LOCATIONS FOR ROLLER SHADE SYSTEM 3. ALL INTERIOR FIXTURES NOT IN STORAGE OR UTILITY AREAS SHALL BE DIMMABLE
- SEE POWER PLAN FOR SWITCHED OUTLETS 4.
- LOCATION OF ALL LIGHTING AND SWITCHES TO BE VERIFIED IN WALKTHROUGH WITH ARCHITECT AND 5.
- OWNER PRIOR TO RUNNING WIRES. 6. OUTDOOR LIGHTING ATTACHED TO THE BUILDING SHALL BE HIGH EFFICACY AND CONTROLLED BY A MANUAL ON/OFF SWITCH AND BY A MOTION SENSOR WITH INTEGRAL PHOTO CONTROL PER SECTION
- 150.0(K)3 7. ALL NE W CONSTRUCTION SHALL BE PROVIDED WITH CARBON MONOXIDE AND SMOKE DETECTORS INSTALLED IN THE FOLLOWING LOCATIONS: IN EACH SLEEPING ROOM; OUTSIDE EACH SLEEPING AREA IN THE VICINITY OF THE BEDROOMS; ON EACH HABITABLE STORY OF THE DWELLING, INCLUDING BASEMENTS. DEVICES SHALL BE INTERCONNECTED IN SUCH A MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL THE ALARMS WITHIN THE DWELLING UNIT.

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GRAPHIC	TAG	MOUNTING	DESCRIPTION	WET-RATED
0	A1	RECESSED	2" DOWNLIGHT / GIMBLE	YES
	B1	SURFACE	LED TAPE LIGHT	NO
	B2	SURFACE	LED TAPE LIGHT IN ALUMINUM CHANNEL W/ FROSTED LENS	YES
	B3	SURFACE	LED TAPE LIGHT	YES
	B4	SURFACE	LED TAPE LIGHT IN ALUMINUM CHANNEL W/ FROSTED LENS	NO
	C1	RECESSED	INTEGRAL MIRROR LIGHT	YES
-\$-	D1	PENDANT	DECORATIVE FIXTURE TBD	NO
	E1	SURFACE	FLUSH PANEL LED	DAMP
Ю	F1	SURFACE	WALL SCONCE	YES
J	G1	SURFACE	DECORATIVE FIXTURE TBD	NO
		RECESSED	EXHAUST FAN	N/A
S		SURFACE	CO / SMOKE DETECTOR	N/A



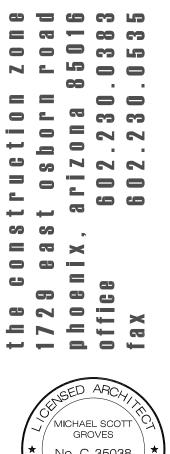


2 GROUND FLOOR LIGHTING PLAN SCALE: 1/4"=1'-0"

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

LIGHT FIXTURE LEGEND

REMARKS
NORA IOLITE 2 OR APPROVED EQ.
MOUNT TO UNDERSIDE OF SHELF / UPPER CAB
MOUNT IN LIGHT COVE
MOUNT TO TOP OF STL TRIM (CLNG WASH)
MOUNT FLUSH WITH CEILING
ROBERN OR APPROVED EQ
DECORATIVE FIXTURE TBD / FULL CUTOFF
80 CFM
SEE NOTES











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ELECTRICAL NOTES

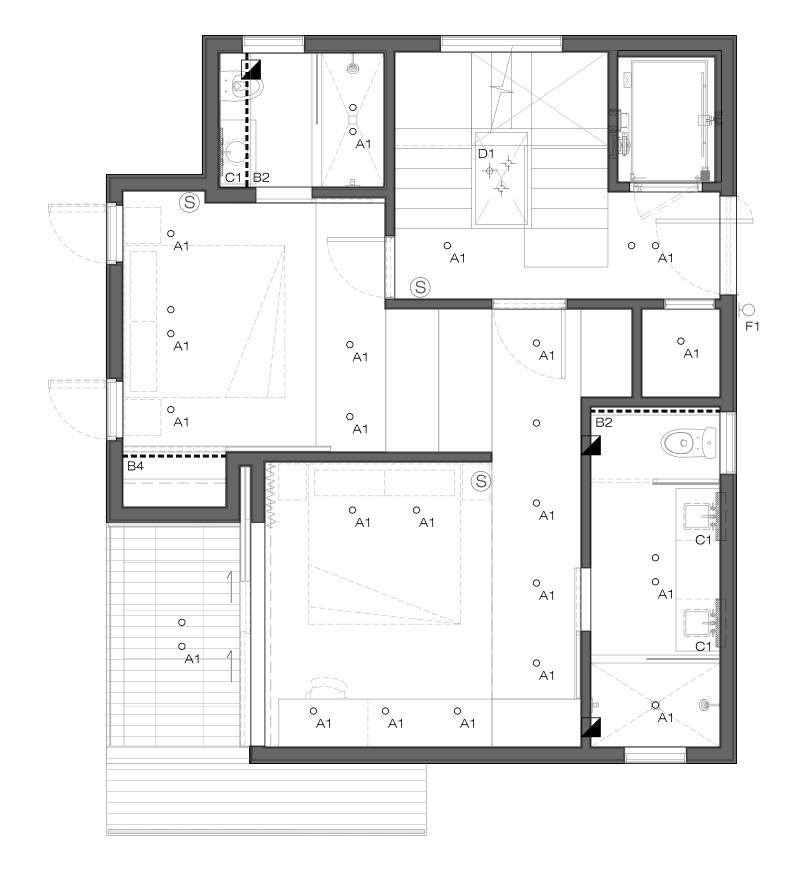
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	C1	RECESSED	INTEGRAL MIRROR LIGHT	YES
	D1	PENDANT	DECORATIVE FIXTURE TBD	NO
	E1	SURFACE	FLUSH PANEL LED	DAMP
Ю	F1	SURFACE	WALL SCONCE	YES
J	G1	SURFACE	DECORATIVE FIXTURE TBD	NO
		RECESSED	EXHAUST FAN	N/A
S		SURFACE	CO / SMOKE DETECTOR	N/A

B2	B3	O A1 O A1		
	0 A1	B3		©
				0 A1
			0 C	 0 A1
0			o c	o A1
A1		B1		

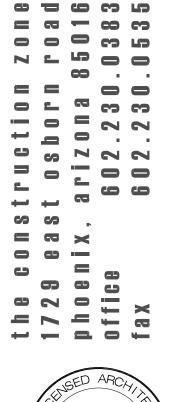


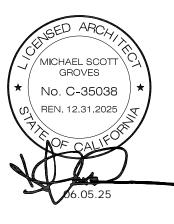
2 THIRD FLOOR LIGHTING PLAN SCALE: 1/4"=1'-0"

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

REMARKS	
NORA IOLITE 2 OR APPROVED EQ.	
MOUNT TO UNDERSIDE OF SHELF / UPPER CAE	3
MOUNT IN LIGHT COVE	
MOUNT TO TOP OF STL TRIM (CLNG WASH)	
MOUNT FLUSH WITH CEILING	
ROBERN OR APPROVED EQ	
DECORATIVE FIXTURE TBD / FULL CUTOFF	
80 CFM	

SEE NOTES













2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y N/A RESPON. PARTY	CHAPTER 3 GREEN BUILDING	⋎		RESPON. PARTY	4.106.4.2 New mult
	SECTION 301 GENERAL				When parking is prov requirements of Sect whole number. A par
	301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the				space shall count as applicable minimum
	application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.		_		for further details. 4.106.4.2.1Multifam
	301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the specific area of the addition or alteration.				than 20 sleeping up The number of dwel this section.
	The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking facilities or the addition of new parking facilities serving existing multifamily buildings. See Section 4.106.4.3 for application.				1.EV Capable of parking fac EVSE. Electric system, includ EVs at all req
	Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing lighting fixtures are not considered alterations for the purpose of this section. Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or				The service p for future EV
	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, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.				Exceptions 1.When EV of EV capa 2.When EV
	301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of 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 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.				spaces EV cha Notes: a.Construc
	SECTION 302 MIXED OCCUPANCY BUILDINGS				future EV b.There is EV charge
	302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.				2.EV Ready . Level 2 EV ch
	Exceptions: 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable.				dwelling unit v
	2. [HCD] For purposes of <i>CAL</i> Green, live/work units, complying with Section 419 of the <i>California Building Code</i> , shall not be considered mixed occupancies. Live/Work units shall comply with Chapter 4 and Appendix A4, as applicable.				Exception: Arc 4.106.4.2.2 Multifar sleeping units or g The number of dwel
	DIVISION 4.1 PLANNING AND DESIGN ABBREVIATION DEFINITIONS:				this section.
	HCDDepartment of Housing and Community DevelopmentBSCCalifornia Building Standards CommissionDSA-SSDivision of the State Architect, Structural Safety				of parking fac EVSE. Electric
	OSHPD Office of Statewide Health Planning and Development LR Low Rise HR High Rise				system, incluc EVs at all requ
	AA Additions and Alterations N New				The service pa for future EV o
	CHAPTER 4 RESIDENTIAL MANDATORY MEASURES				Exception: parking spa reduced by
	SECTION 4.102 DEFINITIONS				Notes: a.Construc
	4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)				b.There is EV charge
	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.				2.EV Ready. ⁻ Level 2 EV ch
	WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials 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.				dwelling unit v Exception:
	 4.106 SITE DEVELOPMENT 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation 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. 				3.EV Charger Where common area and shal
	4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less 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 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.				When low pov an automatic l capacity to ea shall have suf served by the have a capaci
	 Retention basins of sufficient size shall be utilized to retain storm water on the site. Where storm water is conveyed to a public drainage system, collection point, gutter or similar disposal method, water shall be filtered by use of a barrier system, wattle or other method approved 				capacity to the 4.106.4.2.2.1 Ele Electric vehicle c
	by the enforcing agency. 3. Compliance with a lawfully enacted storm water management ordinance. Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or are part of a larger common plan of development which in total disturbs one acre or more of soil.				Exception: Elec shall not be req requirements.
	(Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html)				4.106.4.2.2.1.1 L EVCS shall comp
	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:				1.The chargi the Californi 2.The charg
	 Swales Water collection and disposal systems French drains 				Chapter 2, to
	 French drains Water retention gardens Other water measures which keep surface water away from buildings and aid in groundwater recharge. 				Exception: E Building Coc 4.106.4.2.2.
	Exception : Additions and alterations not altering the drainage path.				4.106.4.2.2.1.2 E The charging sp
	4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 or 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 California Electrical Code, Article 625.				1.The minimum 2.The minimum
	 Exceptions: 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and infrastructure are not feasible based upon one or more of the following conditions: 				3.One in every 2 aisle. A 5-foot (* 12 feet (3658 m
	 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate power. 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 				a.Surface slope percent slope) i
	 4.106.4, may adversely impact the construction cost of the project. 2. Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional parking facilities. 				4.106.4.2.2.1.3 A In addition to the comply with the a spaces and EVCS 1109A.
	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 shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main				4.106.4.2.3 EV sj 1.Single EV space
	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 concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.				circuit. The racew originate at the m proximity to the lo raceway terminati have a 40-ampere
	Exemption: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in accordance with the <i>California Electrical Code</i> .				installed, or space Exception: A rac installed in close
	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				construction in a 2.Multiple EV spa
	location shall be permanently and visibly marked as "EV CAPABLE".				location of installe information on an
					electrical load cal

		-	- (••••••) -•-•)	
	Y N/4	A RESPON. PARTY	Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the location or the proposed location of the EV space at the time of original construction in accordance with the California Electrical Code.	
vellings, hotels and motels and new residential parking facilities. king spaces for new multifamily dwellings, hotels and motels shall meet the 6.4.2.1 and 4.106.4.2.2. Calculations for spaces shall be rounded up to the nearest ce served by electric vehicle supply equipment or designed as a future EV charging one standard automobile parking space only for the purpose of complying with any			4.106.4.2.4 Identification. 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 with the California Electrical Code.	for
pace requirements established by a local jurisdiction. See Vehicle Code Section 22511.2			4.106.4.2.5 Electric Vehicle Ready Space Signage . Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its	
est rooms. sleeping units or guest rooms shall be based on all buildings on a project site subject to		1	successor(s). 4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing	
) percent of the total number of parking spaces on a building site, provided for all types Il be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 alculations shall demonstrate that the electrical panel service capacity and electrical n-site distribution transformer(s), have sufficient capacity to simultaneously charge all paces at a minimum of 40 amperes.			 multifamily buildings. When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Notes: 	
bpanel circuit directory shall identify the overcurrent protective device space(s) reserved purposes as "EV CAPABLE" in accordance with the California Electrical Code.			 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 EV chargers are installed for use. 	е
(Level 2 EVSE) are installed in a number equal to or greater than the required number as.			DIVISION 4.2 ENERGY EFFICIENCY 4.201 GENERAL	
s (Level 2 EVSE) are installed in a number less than the required number of EV capable ber of EV capable spaces required may be reduced by a number equal to the number of			4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.	
alled. ments are intended to demonstrate the project's capability and capacity for facilitating		1	 DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION 4.303 INDOOR WATER USE 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and fittings (faucets and fitting	,
ement for EV spaces to be constructed or available until receptacles for EV charging or alled for use.			and 4.303.4.4. Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conservin plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final	•
e (25) percent of the total number of parking spaces shall be equipped with low power eptacles. For multifamily parking facilities, no more than one receptacle is required per e than one parking space is provided for use by a single dwelling unit.			completion, certificate of occupancy, or final permit approval by the local building department. See Civil Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and other important enactment dates.	
king facilities served by parking lifts. opment projects with 20 or more dwelling units, hotels and motels with 20 or more ns.			 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 Specification for Tank-type Toilets. 	•
sleeping units or guest rooms shall be based on all buildings on a project site subject to) percent of the total number of parking spaces on a building site, provided for all types			 Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush. 4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush 	
Il be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 alculations shall demonstrate that the electrical panel service capacity and electrical n-site distribution transformer(s), have sufficient capacity to simultaneously charge all paces at a minimum of 40 amperes.			 The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush. 4.303.1.3 Showerheads. 4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 	1
bpanel circuit directory shall identify the overcurrent protective device space(s) reserved ourposes as "EV CAPABLE" in accordance with the California Electrical Code.			gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.	ΡA
c chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of ired by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be or equal to the number of EV chargers installed over the five (5) percent required.			 4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 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. Note: A hand-held shower shall be considered a showerhead. 	
ments shall show locations of future EV spaces.			4.303.1.4 Faucets.	
ement for EV spaces to be constructed or available until receptacles for EV charging or alled for use. we (25) percent of the total number of parking spaces shall be equipped with low power			4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shan not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.	
parking facilities served by parking lifts.			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 buildings shall not exceed 0.5 gallons per minute at 60 psi.	
) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. rking is provided, at least one EV charger shall be located in the common use parking ible for use by all residents or guests.			4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not delive more than 0.2 gallons per cycle.	
2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, agement system (ALMS) may be used to reduce the maximum required electrical served by the ALMS. The electrical system and any on-site distribution transformers bacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) ne branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall ess than 30 amperes. ALMS shall not be used to reduce the minimum required electrical EV capable spaces.			 4.303.1.4.4 Kitchen Faucets. 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 n 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. Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction. 	not
icle charging stations (EVCS). ations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1.			4.303.1.4.5 Pre-rinse spray valves. When installed, shall meet the requirements in the <i>California Code of Regulations</i> , Title 20 (Appliance Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7) and shall be equipped with an integral automatic shutoff.	
e charging stations serving public accommodations, public housing, motels and hotels omply with this section. See California Building Code, Chapter 11B, for applicable			FOR REFERENCE ONLY: The following table and code section have been reprinted from the <i>California Code of Regulations</i> , Title 20 (Appliance Efficiency Regulations),Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).	ia
least one of the following options:			TABLE H-2	
shall be located adjacent to an accessible parking space meeting the requirements of Code, Chapter 11A, to allow use of the EV charger from the accessible parking space.			STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019	
ling. nicle charging stations designed and constructed in compliance with the California er 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section			PRODUCT CLASS [spray force in ounce force (ozf)] MAXIMUM FLOW RATE (gpm)	
3. hicle charging stations (EVCS) dimensions.			Product Class 1 (\leq 5.0 ozf)1.00Design 1 (\leq 5.0 ozf)1.00	
Il be designed to comply with the following: each EV space shall be 18 feet (5486 mm).			Product Class 2 (> 5.0 ozf and \leq 8.0 ozf) 1.20 Product Class 3 (> 8.0 ozf) 1.28	
each EV space shall be 9 feet (2743 mm). ng spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum			Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray values manufactured on or after January 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)[113 grams-force(gf)]	
wide minimum aisle shall be permitted provided the minimum width of the EV space is			4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial buildings. Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the California Plumbing Code.	e
V space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 ction.			4.303.3 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the <i>California Plumbing Code</i> , and shall meet the applicable standards referenced in Table	
E EV spaces. ents in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall ty provisions for EV chargers in the California Building Code, Chapter 11B. EV ready amily developments shall comply with California Building Code, Chapter 11A, Section			1701.1 of the California Plumbing Code. NOTE:	
uirements.			THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.	
I. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall			TABLE - MAXIMUM FIXTURE WATER USE FIXTURE TYPE FLOW RATE	
e or subpanel and shall terminate into a listed cabinet, box or enclosure in close the proposed location of the EV space. Construction documents shall identify the receptacle or charger location, as applicable. The service panel and/ or subpanel shall n dedicated branch circuit, including branch circuit overcurrent protective device			SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI	
ved to permit installation of a branch circuit overcurrent protective device. not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is			LAVATORY FAUCETS (RESIDENTIAL) MAX. 1.2 GPM @ 60 PSI_MIN. 0.8 GPM @ 20 PSI	
y to the location or the proposed location of the EV space, at the time of original be with the California Electrical Code.			LAVATORY FAUCETS IN COMMON & PUBLIC0.5 GPM @ 60 PSIUSE AREAS1.8 GPM @ 60 PSI	
red. Construction documents shall indicate the raceway termination point and the e EV spaces, receptacles or EV chargers. Construction documents shall also provide f installed or future receptacles or EVSE, raceway method(s), wiring schematics and			METERING FAUCETS 0.2 GAL/CYCLE	
Plan design shall be based upon a 40-ampere minimum branch circuit. Required ponents that are planned to be installed underground, enclosed, inaccessible or in			WATER CLOSET 1.28 GAL/FLUSH URINALS 0.125 GAL/FLUSH	
es shall be installed at the time of original construction.				

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.

	Y	= YES		OVIDED	
	N/A RESPON. PARTY	= RESP	APPLICABLE ONSIBLE PARTY (ie: ARC ER, CONTRACTOR, INSPE	HITECT, ENGINEER, CTOR ETC.)	ו ב
04 OUTDOOR WATER USE	1000	_			L N C
04.1 OUTDOOR POTABLE WATER USE IN LAN ocal water efficient landscape ordinance or the cur cient Landscape Ordinance (MWELO), whichever	rent California Depa				l s t
NOTES: 1. The Model Water Efficient Landscape Ordin	ance (MWELO) is	located in th	e California Code I	Regulations	0 0
Title 23, Chapter 2.7, Division 2. MWELO a available at: https://www.water.ca.gov/					8
IVISION 4.4 MATERIAL CO FFICIENCY	NSERVAT	ION AN	ND RESOU	RCE	- -
406 ENHANCED DURABILITY AND 06.1 RODENT PROOFING. Annular spaces arou				as in	
sole/bottom plates at exterior walls shall be pro openings with cement mortar, concrete mason agency.	otected against the	passage of r	rodents by closing	such	
408 CONSTRUCTION WASTE RED 08.1 CONSTRUCTION WASTE MANAGEMENT.	Recycle and/or sa	lvage for reu	use a minimum of 6	65	
percent of the non-hazardous construction and 4.408.2, 4.408.3 or 4.408.4, or meet a more st management ordinance.				'n	
Exceptions:					
 Excavated soil and land-clearing debris. Alternate waste reduction methods develop recycle facilities capable of compliance wit close to the jobsite. 				oly	
 Close to the jobsite. The enforcing agency may make exception jobsites are located in areas beyond the h 				t	
08.2 CONSTRUCTION WASTE MANAGEMENT in conformance with Items 1 through 5. The connecessary and shall be available during constructions of the statement of the	onstruction waste m	anagement	plan shall be upda		
 Identify the construction and demolition wa reuse on the project or salvage for future u 	ste materials to be se or sale.	diverted fron	n disposal by recyc	-	
 Specify if construction and demolition wast bulk mixed (single stream). Identify diversion facilities where the constr 	e materials will be s		· ·		
taken.4. Identify construction methods employed to generated.	reduce the amount	of construct	tion and demolition	waste	
 Specify that the amount of construction and by weight or volume, but not by both. WASTE MANAGEMENT COMPANY Utilia 					
08.3 WASTE MANAGEMENT COMPANY. Utiliz enforcing agency, which can provide verifiable demolition waste material diverted from the lar	documentation that	t the percent	tage of construction		
Note: The owner or contractor may make the materials will be diverted by a waste managem		constructior	n and demolition w	aste	
08.4 WASTE STREAM REDUCTION ALTERNA weight of construction and demolition waste di lbs./sq.ft. of the building area shall meet the million of the statement	sposed of in landfill	s, which do i	not exceed 3.4		
Section 4.408.1 4.408.4.1 WASTE STREAM REDUCTION AL			·		
weight of construction and demolition waste di per square foot of the building area, shall meet requirement in Section 4.408.1	sposed of in landfill	s, which do i	not exceed 2 poun		
08.5 DOCUMENTATION . Documentation shall b compliance with Section 4.408.2, items 1 throu	e provided to the er Igh 5, Section 4.408	nforcing ager 3.3 or Sectio	ncy which demonst n 4.408.4	irates	
Notes:	ha California C	D منامان C	andorda Oral		
 Sample forms found in "A Guide to the (Residential)" located at www.hcd.ca documenting compliance with this set 2. Mixed construction and demolition d 	a.gov/CALGreen.htr ection.	ml may be u	sed to assist in	lifornia	
410 BUILDING MAINTENANCE ANI	and Recovery (Cal	Recycle).	ייייייייייייייייייייייייייייייייייייי		
10.1 OPERATION AND MAINTENANCE MANUA disc, web-based reference or other media according following shall be placed in the building:	L. At the time of fi	nal inspectio	on, a manual, comp which includes all	oact of the	
 Directions to the owner or occupant that the life cycle of the structure. 		ain with the I	building throughout	the	
 Operation and maintenance instructions fo a. Equipment and appliances, including photovoltaic systems, electric vehicl 	g water-saving devi				
appliances and equipment. b. Roof and yard drainage, including gu c. Space conditioning systems, includin	utters and downspo ng condensers and	uts. air filters.			
 d. Landscape irrigation systems. e. Water reuse systems. 3. Information from local utility, water and was resource consumption, including recycle place. 			ods to further reduc)e	
 4. Public transportation and/or carpool option 5. Educational material on the positive impaction and what methods an occupant may use to 	s available in the ar ts of an interior rela	ea. tive humidity			
 Information about water-conserving landsc water. Instructions for maintaining gutters and down 	ape and irrigation d	esign and co	ontrollers which co	nserve	
feet away from the foundation.8. Information on required routine maintenance painting, grading around the building, etc.					
 Information about state solar energy and ir A copy of all special inspections verificatio Information from the Department of Forest 	ns required by the e	enforcing ag		le	
space around residential structures. 12. Information and/or drawings identifying the	e location of grab ba	ar reinforcem	nents.		_!
10.2 RECYCLING BY OCCUPANTS. Where 5 or Iding site, provide readily accessible area(s) that s positing, storage and collection of non-hazardous	erves all buildings on materials for recycling	on the site a ng, including	and are identified fo g (at a minimum) pa	or the aper,	
rugated cardboard, glass, plastics, organic waster linance, if more restrictive.		-		-	
Exception: Rural jurisdictions that meet and a 42649.82 (a)(2)(A) et seq. are not this section.					
IVISION 4.5 ENVIRONMEN		ITY			(
ECTION 4.501 GENERAL 01.1 Scope					
e provisions of this chapter shall outline means of ating and/or harmful to the comfort and well being	reducing the quality of a building's insta	of air conta Illers, occup	minants that are or ants and neighbors	dorous, ទ.	
ECTION 4.502 DEFINITIONS					
02.1 DEFINITIONS e following terms are defined in Chapter 2 (and are	e included here for i	reference)			-
	wheatboard, strawl	board, panel		or	

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4.18.25

MICHAEL SCOTT GROVES No. C-35038 REN. 12.31.2025

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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Y N/A RESPON. PARTY

· · · · ·				
				·
	MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum cha			TAE
	compound to the "Base Reactive Organic Gas (ROG) Mixture" per v hundredths of a gram (g O^3/g ROC).	.		(Less
	Note: MIR values for individual compounds and hydrocarbon solver and 94701.	ts are specified in CCR, Title 1	7, Sections 94700	SEAL ARCH
	MOISTURE CONTENT. The weight of the water in wood expressed	l in percentage of the weight of	the oven-dry wood.	MARI
	PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MI	R for all ingredients in a produc	t subject to this	NON
	article. The PWMIR is the total product reactivity expressed to hund product (excluding container and packaging).	-	ed per gram of	ROAD
	Note: PWMIR is calculated according to equations found in CCR, T	tle 17, Section 94521 (a).		SING
	REACTIVE ORGANIC COMPOUND (ROC). Any compound that has ozone formation in the troposphere.	as the potential, once emitted, to	o contribute to	OTHE
	VOC. A volatile organic compound (VOC) broadly defined as a cher	mical compound based on carb	on chains or rings	SEAL
	with vapor pressures greater than 0.1 millimeters of mercury at roor hydrogen and may contain oxygen, nitrogen and other elements. Se	n temperature. These compour	nds typically contain	ARCH
	4.503 FIREPLACES		(u).	NC
	4.503 I GENERAL . Any installed gas fireplace shall be a direct-vel woodstove or pellet stove shall comply with U.S. EPA New Source			PC
	applicable, and shall have a permanent label indicating they are cer	tified to meet the emission limit		MARI
	pellet stoves and fireplaces shall also comply with applicable local c	numances.		OTHE
	4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF M			
	CONSTRUCTION. At the time of rough installation, during storage startup of the heating, cooling and ventilating equipment, all duct ar	d other related air distribution of	component	
	openings shall be covered with tape, plastic, sheet metal or other m reduce the amount of water, dust or debris which may enter the sys		cing agency to	
	4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish mate	rials shall comply with this sect	ion.	
	4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, se			TA
	requirements of the following standards unless more stringen management district rules apply:	tiocal or regional air pollution of	or air quality	GR
	1. Adhesives, adhesive bonding primers, adhesive pr			COL
	shall comply with local or regional air pollution com applicable or SCAQMD Rule 1168 VOC limits, as a	shown in Table 4.504.1 or 4.504	1.2, as applicable.	CO/ FLA
	Such products also shall comply with the Rule 116 compounds (chloroform, ethylene dichloride, methy	vlene chloride, perchloroethyler	ne and	FLA NOI
	tricloroethylene), except for aerosol products, as s	becified in Subsection 2 below.		NOI
	 Aerosol adhesives, and smaller unit sizes of adhes units of product, less packaging, which do not weight 	h more than 1 pound and do n	ot consist of more	SPE
	than 16 fluid ounces) shall comply with statewide v prohibitions on use of certain toxic compounds, of	OC standards and other requir	ements, including	ALU
	commencing with section 94507.			BAS
	4.504.2.2 Paints and Coatings. Architectural paints and coather the ARB Architectural Suggested Control Measure, as shown	atings shall comply with VOC lin i in Table 4.504.3. unless more	nits in Table 1 of stringent local limits	BIT
	apply. The VOC content limit for coatings that do not meet the listed in Table 4.504.3 shall be determined by classifying the	e definitions for the specialty c	patings categories	BIT
	coating, based on its gloss, as defined in subsections 4.21, 4 Board, Suggested Control Measure, and the corresponding F	.36, and 4.37 of the 2007 Califo	ornia Air Resources	BOI
	Table 4.504.3 shall apply.	iat, Hormat of Hormat High Cie		COI
	4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and Limits for POC in Section 04522(a)(2) and other requirement			DRI
	Limits for ROC in Section 94522(a)(2) and other requirement compounds and ozone depleting substances, in Sections 945	s, including prohibitions on use $522(a)(1)$ and $(f)(1)$ of California	or certain toxic	DR
	Redulations, Litle 17, commencing with Section 94520, and L			
	Quality Management District additionally comply with the per-	n areas under the jurisdiction of	the Bay Area Air	FAL
	Quality Management District additionally comply with the pere 8, Rule 49.	n areas under the jurisdiction of cent VOC by weight of product	f the Bay Area Air limits of Regulation	
	Quality Management District additionally comply with the per-	n areas under the jurisdiction of cent VOC by weight of product ection shall be provided at the r	f the Bay Area Air limits of Regulation	FAL
	 Quality Management District additionally comply with the perese, Rule 49. 4.504.2.4 Verification. Verification of compliance with this senforcing agency. Documentation may include, but is not lime 1. Manufacturer's product specification. 	n areas under the jurisdiction of cent VOC by weight of product ection shall be provided at the r	f the Bay Area Air limits of Regulation	FAL FIR FLC FOF
	 Quality Management District additionally comply with the pereset. 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this sentine enforcing agency. Documentation may include, but is not limed. 	n areas under the jurisdiction of cent VOC by weight of product ection shall be provided at the r	f the Bay Area Air limits of Regulation	FAL FIRI FLC FOF GR/
	 Quality Management District additionally comply with the perese, Rule 49. 4.504.2.4 Verification. Verification of compliance with this senforcing agency. Documentation may include, but is not lime 1. Manufacturer's product specification. 	n areas under the jurisdiction of cent VOC by weight of product ection shall be provided at the r	f the Bay Area Air limits of Regulation	FAL FIRI FLC FOF GR/ HIG
	 Quality Management District additionally comply with the perese, Rule 49. 4.504.2.4 Verification. Verification of compliance with this senforcing agency. Documentation may include, but is not lime 1. Manufacturer's product specification. 	n areas under the jurisdiction of cent VOC by weight of product ection shall be provided at the r ited to, the following:	f the Bay Area Air limits of Regulation	FAL FIRI FLC FOF GR/ HIG IND
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	Quality Management District additionally comply with the peres 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this s enforcing agency. Documentation may include, but is not lim 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIN (Less Water and Less Exempt Compounds in Gra ARCHITECTURAL APPLICATIONS	n areas under the jurisdiction of cent VOC by weight of product ection shall be provided at the r ited to, the following: MIT _{1,2} ms per Liter) VOC LIMIT	f the Bay Area Air limits of Regulation	FAL FIRI FLC FOF GR/ HIG IND
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	Quality Management District additionally comply with the perol 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this s enforcing agency. Documentation may include, but is not lim 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIN (Less Water and Less Exempt Compounds in Gra ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES	A areas under the jurisdiction of cent VOC by weight of product ection shall be provided at the r ited to, the following: MIT _{1,2} ms per Liter) VOC LIMIT 50 50 150 100	f the Bay Area Air limits of Regulation	FAL FIRI FLC FOF GR/ HIG IND LOV MAG MAG ME ^T MUI PRE PRI REA
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	Quality Management District additionally comply with the period, Rule 49. 4.504.2.4 Verification. Verification of compliance with this s enforcing agency. Documentation may include, but is not lime 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIN (Less Water and Less Exempt Compounds in Gra ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES DRYWALL & PANEL ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING ABS WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC	areas under the jurisdiction of cent VOC by weight of product ection shall be provided at the rited to, the following: MIT1,2 ms per Liter) VOC LIMIT 50 510 490 325 550	f the Bay Area Air limits of Regulation	FAL FIR FIC FOF GR/ HIG IND LOV MAC MAS ME ⁻ MUI PRE PRI RE/ REC ROC RUS SHE CLE OP/ SPE UNI STA STC SW TR/ TUE WA
	Quality Management District additionally comply with the period, Rule 49. 4.504.2.4 Verification. Verification of compliance with this s enforcing agency. Documentation may include, but is not lime 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LINess (Less Water and Less Exempt Compounds in Grader and Less Exempt Compounds in Grader and ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES RUBBER FLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES DRYWALL & PANEL ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING ABS WELDING ABS WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE	n areas under the jurisdiction of cent VOC by weight of product ection shall be provided at the rited to, the following: MIT1,2 ms per Liter) VOC LIMIT 50 510 490 325 250 550 80	f the Bay Area Air limits of Regulation	FAL FIR FIC FOF GR/ HIG IND LOV MAG MAS ME ⁻ MUI PRE PRI RE/ REC ROC RUS SHE CLE OP/ SPE UNI STA STC SW TR/ TUE WA UNI STA STC SW TR/ TUE WA UNI
	Quality Management District additionally comply with the period, Rule 49. 4.504.2.4 Verification. Verification of compliance with this senforcing agency. Documentation may include, but is not lime in the period of the product specification. 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LINer (Less Water and Less Exempt Compounds in Graen are compounded in Graen are compou	areas under the jurisdiction of cent VOC by weight of product ection shall be provided at the rited to, the following: MIT1,2 ms per Liter) VOC LIMIT 50 510 490 325 250 50 80 250	f the Bay Area Air limits of Regulation	FAL FIRI FLC FOF GR/ HIG IND LOV MAG MAS ME ⁻ MUI PRI PRI REA REC ROC RUS SHE CLE OP/ SPE UNI STA STC SW TRA TUE WA
	Quality Management District additionally comply with the pers 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this senforcing agency. Documentation may include, but is not lim 1. Manufacturer's product specification. 2. Field verification of on-site product containers. TABLE 4.504.1 - ADHESIVE VOC LIN (Less Water and Less Exempt Compounds in Gra ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES VCT & ASPHALT TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES COVE BASE ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING ABS WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE STRUCTURAL WOOD MEMBER ADHESIVE	areas under the jurisdiction of cent VOC by weight of product ection shall be provided at the rited to, the following: MIT1,2 ms per Liter) VOC LIMIT 50 50 150 100 60 50 50 50 100 60 510 490 325 250 80 250 140 250	f the Bay Area Air limits of Regulation	FAL FIR FIC FOF GR/ HIG IND LOV MAG MAS ME ⁻ MUI PRE PRI RE/ REO ROG RUS SHE CLE OP/ SPE UNI STA STO SV UNI STA STO SV UNI STA STO SV UNI STA STO SV UNI STA STO STA STO SV UNI STA STO SV STA STO SV STA STO SV STA STO STA STA STO STA STO STA STO STA STO STA STO STA STO STA STO STA STO STA STO STA STO STA STO STA STO STA STO STA STA STO STA STA STO STA STA STO STA STA STO STA STA STO STA STA STO STA STA STA STA STA STA STA STA STA STA
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ABLE 4.504.2 - SEALANT VOC LIMIT						
ess Water and Less Exempt Compounds in Grams per Liter)						
EALANTS	VOC LIMIT					
RCHITECTURAL	250					
IARINE DECK	760					
ONMEMBRANE ROOF	300					
OADWAY	250					
INGLE-PLY ROOF MEMBRANE	450					
THER	420					
EALANT PRIMERS						
RCHITECTURAL						
NON-POROUS	250					
POROUS	775					
IODIFIED BITUMINOUS	500					
IARINE DECK	760					
ITHER	750					

TABLE 4.504.3 - VOC CONTENT LIMI	IS FOR				
ARCHITECTURAL COATINGS2,3 GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT					
COMPOUNDS					
COATING CATEGORY	VOC LIMIT				
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				
ROOF COATINGS	50				
RUST PREVENTATIVE COATINGS	250				
SHELLACS	200				
CLEAR	730				
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	230				
WOOD COATINGS	350				
ZINC-RICH PRIMERS					
1. GRAMS OF VOC PER LITER OF COATING, INC	340				

EXEMPT COMPOUNDS 2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS

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

	N/A	RESPON. PARTY			_
			TABLE 4.504.5 - FORMALDEHYDE L	MITS	
			MAXIMUM FORMALDEHYDE EMISSIONS IN PAR		
			PRODUCT		
			HARDWOOD PLYWOOD VENEER CORE	0.05	
			HARDWOOD PLYWOOD COMPOSITE CORE	0.05	
			PARTICLE BOARD	0.09	
				0.11	
			THIN MEDIUM DENSITY FIBERBOARD2 1. VALUES IN THIS TABLE ARE DERIVED FROM		
			BY THE CALIF. AIR RESOURCES BOARD, AIR T MEASURE FOR COMPOSITE WOOD AS TESTED	OXICS CONTROL	
			WITH ASTM E 1333. FOR ADDITIONAL INFORM	ATION, SEE CALIF.	
			CODE OF REGULATIONS, TITLE 17, SECTIONS 93120.12.	93120 THROUGH	
			THIN MEDIUM DENSITY FIBERBOARD HAS A THICKNESS OF 5/16" (8 MM).	MAXIMUM	
I			DIVISION 4.5 ENVIRONMENTAL QUA 4.504.3 CARPET SYSTEMS. All carpet installed in the building interio Department of Public Health, "Standard Method for the Testing and Eve from Indoor Sources Using Environmental Chambers," Version 1.2, Jac	r shall meet the requirements of the C aluation of Volatile Organic Chemical	Emissions
			California Specification 01350)		
			See California Department of Public Health's website for certification p	ograms and testing labs.	
			https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Page	s/VOC.aspx.	
1			4.504.3.1 Carpet cushion. All carpet cushion installed in the bu California Department of Public Health, "Standard Method for the Chemical Emissions from Indoor Sources Using Environmental ((Emission testing method for California Specification 01350)	e Testing and Evaluation of Volatile O	rganic
			See California Department of Public Health's website for certifica		
1			4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the r	0	
1			4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring i		receivina
			resilient flooring shall meet the requirements of the California Departme Testing and Evaluation of Volatile Organic Chemical Emissions from In Version 1.2, January 2017 (Emission testing method for California Spe	ent of Public Health, "Standard Metho door Sources Using Environmental C	d for the
			See California Department of Public Health's website for certification p		
			hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Page	es/VOC.aspx.	
1			4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, partic		ard
1			composite wood products used on the interior or exterior of the building formaldehyde as specified in ARB's Air Toxics Control Measure for Con by or before the dates specified in those sections, as shown in Table 4	mposite Wood (17 CCR 93120 et seq	.),
'			4.504.5.1 Documentation. Verification of compliance with this s by the enforcing agency. Documentation shall include at least or		d
			1. Product certifications and specifications.		
			 Chain of custody certifications. Product labeled and invoiced as meeting the Composition 02100 setup. 	te Wood Products regulation (see	
			 CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 of Wood Association, the Australian AS/NZS 2269, Euro 		
			0121, CSA 0151, CSA 0153 and CSA 0325 standards 5. Other methods acceptable to the enforcing agency.		
			5. 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	-	
			4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floors California Residential Code, Chapter 5, shall also comply with this sect	s required to have a vapor retarder by	
1			4.505.2.1 Capillary break. A capillary break shall be installed ir following:	compliance with at least one of the	
			 A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) of a vapor barrier in direct contact with concrete and a contact with contact with concrete and a contact with contact with contact with concrete and a contact with contact with concrete and a contact with contact with concrete and a contact with conta	oncrete mix design, which will address	s bleeding,
			shrinkage, and curling, shall be used. For additional in ACI 302.2R-06.		
			 Other equivalent methods approved by the enforcing a A slab design specified by a licensed design profession 		
I			4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be verified in compliance with	n the framing members exceed 19 pe	
			1. Moisture content shall be determined with either a probe-type		
			moisture verification methods may be approved by the enfor found in Section 101.8 of this code.		
			 Moisture readings shall be taken at a point 2 feet (610 mm) t of each piece verified. At least three random mainture readings shall be performed. 		
			 At least three random moisture readings shall be performed acceptable to the enforcing agency provided at the time of a 		
			Insulation products which are visibly wet or have a high moisture conte enclosure in wall or floor cavities. Wet-applied insulation products shal		prior to
			recommendations prior to enclosure.	nonow the manufacturers drying	
1			4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanica following:	lly ventilated and shall comply with th	e
			 Fans shall be ENERGY STAR compliant and be ducted to te Unless functioning as a component of a whole house ventilat humidity control. 		by a
			 a. Humidity controls shall be capable of adjustment betw equal to 50% to a maximum of 80%. A humidity contr adjustment. 		
			 A humidity control may be a separate component to th integral (i.e., built-in) 	e exhaust fan and is not required to b	be
			Notes:		
			 For the purposes of this section, a bathroom is a room tub/shower combination. 		
			2. Lighting integral to bathroom exhaust fans shall comp	y with the California Energy Code.	
			4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heat sized, designed and have their equipment selected using the following		all be
			 The heat loss and heat gain is established according to ANS Load Calculation), ASHRAE handbooks or other equivalent of 	design software or methods.	al
			Duct systems are sized according to ANSI/ACCA 1 Manual I ASHRAE handbooks or other equivalent design software or	D - 2014 (Residential Duct Systems), methods.	
			 Select heating and cooling equipment according to ANSI/AC Equipment Selection), or other equivalent design software or 	CA 3 Manual S - 2014 (Residential	
			Exception: Use of alternate design temperatures necessary to		
			acceptable.		
15	s TC	BE USEL	O ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USE	R TO MEET THOSE INDIVIDUAL NEEDS.	THE END USER

MARK YES ON BO			
REFERENCE WHER	E, ON I	HE PLAN SET, COMPLIANCE PROVIDED	
Y N/A RESPON. PARTY	= = =	YES NOT APPLICABLE RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEEF OWNER, CONTRACTOR, INSPECTOR ETC.)	२ ,

CHAPTER 7 INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702 QUALIFICATIONS

Y N/A RESPON. PARTY

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

- State certified apprenticeship programs. 2. Public utility training programs.
- 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations.
- 5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

- 1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building
- performance contractors, and home energy auditors.
- 3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency.

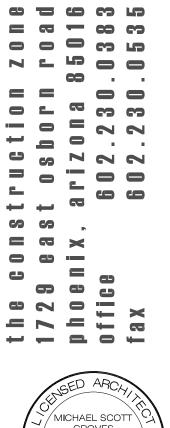
1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

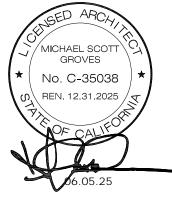
[BSC] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

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

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.





DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AN A MEANS TO INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.



(04/2022)

2022 Single-Family Residential Mandatory Requirements Summary



(04/2022)	
Building Envelop	
§ 110.6(a)1:	Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 101/I.S.2/A440-2011. *
§ 110.6(a)5:	Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a).
§ 110.6(b):	Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped.*
§ 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 must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS).
§ 110.8(g):	Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g).
§ 110.8(i):	Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF1R.
§ 110.8(j):	Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs.
§ 150.0(a):	Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 8-16 area-weighted average U-factor not exceeding U-0.184. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling; or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling.
§ 150.0(b):	Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value.
§ 150.0(c):	Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B. *
§ 150.0(d):	Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. *
§ 150.0(f):	Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.3 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light deterioration; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g).
§ 150.0(g)1:	Vapor Retarder. In climate zones 1 through 16, the earth floor of unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to §150.0(d).
§ 150.0(g)2:	Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation.
§ 150.0(q):	Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45; or area-weighted average U-factor of all fenestration must not exceed 0.45.
Fireplaces, Decor	ative Gas Appliances, and Gas Log:
§ 110.5(e)	Pilot Light. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces.
§ 150.0(e)1:	Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox.
§ 150.0(e)2:	Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device.
§ 150.0(e)3:	Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control. *
Space Conditioni	ng, Water Heating, and Plumbing System:
§ 110.0-§ 110.3:	Certification. Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission.
§ 110.2(a):	HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N.*
§ 110.2(b):	Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating.
§ 110.2(c):	Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat. *
§ 110.3(c)3:	Insulation. Unfired service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating.
8 110 3(c)6·	Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with

2022 Single-Family Residential Mandatory Requirements Summary

§ 110.3(c)6: hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

ENERGY COMMISSION	
§ 150.0(k)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. *
§ 150.0(k)1H:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(k)1I:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or lines along the sensor.
§ 150.0(k)2A:	linen closet is closed. Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(k)2A: § 150.0(k)2B:	· · · · · · · · · · · · · · · · · · ·
3 100.0(K)2D.	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems. Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned
§ 150.0(k)2A:	on and off. *
§ 150.0(k)2B:	Multiple Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the dimmer or sensor is installed to comply with § 150.0(k).
§ 150.0(k)2C:	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(k)2D:	Energy Management Control Systems. An energy management control system (EMCS) may be used to comply with dimming, occupancy, and control requirements if it provides the functionality of the specified control per § 110.9 and the physical controls specified in § 150.0(k)2A.
§ 150.0(k)2E:	Automatic Shutoff Controls. In bathrooms, garages, laundry rooms, utility rooms and walk-in closets, at least one installed luminaire must be controlled by an occupancy or vacancy sensor providing automatic-off functionality. Lighting inside drawers and cabinets with opaque fronts or doors must have controls that turn the light off when the drawer or door is closed.
§ 150.0(k)2F:	Dimmers. Lighting in habitable spaces (e.g., living rooms, dining rooms, kitchens, and bedrooms) must have readily accessible wall- mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces must comply with NEMA SSL 7A.
§ 150.0(k)2K:	Independent controls. Integrated lighting of exhaust fans shall be controlled independently from the fans. Lighting under cabinets or shelves, lighting in display cabinets, and switched outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(k)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control) or an astronomical time clock. An energy management control system that provides the specified control functionality and meets applicable requirements may be used to meet these requirements.
§ 150.0(k)4:	Internally illuminated address signs. Internally illuminated address signs must either comply with § 140.8 or consume no more than 5 watts of power.
§ 150.0(k)5:	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with th applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
Solar Readiness:	
§ 110.10(a)1:	Single-family Residences. Single-family residences located in subdivisions with 10 or more single-family residences and where the application for a tentative subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photovoltaic system installed, must comply with the requirements of § 110.10(b)-(e).
§110.10(b)1A:	Minimum Solar Zone Area. The solar zone must have a minimum total area as described below. The solar zone must comply with access, pathway, smoke ventilation, and spacing requirements as specified in Title 24, Part 9 or other parts of Title 24 or in any requirements adopted by a local jurisdiction. The solar zone total area must be comprised of areas that have no dimension less than 5 feet and are no less than 80 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 160 square feet each for buildings with roof areas greater than 10,000 square feet. For single-family residences, the solar zone must be located on the roof or overhang of the building and have a total area no less than 250 square feet. *
§ 110.10(b)2:	Azimuth. All sections of the solar zone located on steep-sloped roofs must have an azimuth between 90-300° of true north.
§ 110.10(b)3A:	Shading. The solar zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment.
§ 110.10(b)3B:	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.*
§ 110.10(b)4:	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate: a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system. Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must b
§ 110.10(d):	provided to the occupant.
§ 110.10(e)1:	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)2:	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."



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

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§ 150.0(o)1:	Venti
§ 150.0(o)1B:	Cent dwell preve ventil comp
§ 150.0(o)1C:	Who and a space
§ 150.0(o)1G:	Loca contro contir §150.
§ 150.0(o)1H&I:	Airflo be me Resion minin
§ 150.0(o)2:	Field and H must rates
Pool and Spa Sys	
§ 110.4(a):	Certi with t the he use e
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§ 110.4(b)2:	Cove
§ 110.4(b)3:	Direc switcl
§ 110.5:	Pilot
§ 150.0(p):	Pool sizing
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§ 150.0(k)1A:	Lumi range closet
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§ 150.0(k)1F:

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

*Exceptions may apply.

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2022 Single-Family Residential Mandatory Requirements Summary

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

ir Quality: uirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, tilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1.* tral Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the wholelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that rents all airflow through the space conditioning duct system when the damper(s) is closed and controlled per §150.0(o)1Biii&iv. CFI tilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for pliance with §150.0(o)1C.

le-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses . Single-family detached dwelling units, attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial ces must have mechanical ventilation airflow specified in § 150.0(o)1Ci-iii.

al Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demandtrolled exhaust system meeting requirements of §150.0(o)1Giii,enclosed kitchens and bathrooms can use demand-controlled or inuous exhaust meeting §150.0(o)1Giii-iv. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per 0.0(o)1Gvi. *

low Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must neasured by using a flow hood, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference idential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 §7.2 at no less than the mum airflow rate required by §150.0(o)1C.

I Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods t be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow s and sound requirements per §150.0(o)1G

and Equipment: rtification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off the Appliance Efficiency Regulations and listing in MAEDbS; an on-off switch mounted outside of the heater that allows shutting off heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not

electric resistance heating. * ing. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or cated suction and return lines, or built-in or built-up connections to allow for future solar heating. rers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.

ctional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time ch that will allow all pumps to be set or programmed to run only during off-peak electric demand periods.

Light. Natural gas pool and spa heaters must not have a continuously burning pilot light. Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump g, flow rate, piping, filters, and valves.

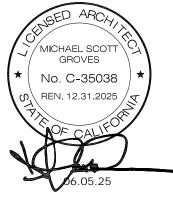
nting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable irements of § 110.9. *

ninaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen e hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen ets with an efficacy of at least 45 lumens per watt.

ew based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8. st essed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met. t Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JA8

ated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires. Ink Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a naire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or fan speed control. Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k).*

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: 3 Story + Basement New Construction Calculation Description: 3 Story + Basement New Construction

GENER	AL INFORMATION				
01	Project Name	3 Story + Basement New Construction			
02	Run Title	3 Story + Basement New Construction			
03	Project Location	2800 Ocean Drive			
04	City	Manhattan Beach, CA	05	Standards Version	2022
06	Zip code	90266	07	Software Version	CBECC-Res 2022.3.0
08	Climate Zone	6	09	Front Orientation (deg/ Cardinal)	70
10	Building Type	Single family	11	Number of Dwelling Units	1
12	Project Scope	Newly Constructed	13	Number of Bedrooms	3
14	Addition Cond. Floor Area (ft ²)	0	15	Number of Stories	3
16	Existing Cond. Floor Area (ft ²)	n/a	17	Fenestration Average U-factor	0.34
18	Total Cond. Floor Area (ft ²)	2150	19	Glazing Percentage (%)	23.51%
20	ADU Bedroom Count	n/a	21	ADU Conditioned Floor Area	n/a
22	Fuel Type	Natural gas	23	No Dwelling Unit:	No
COMPL	IANCE RESULTS				
(01 Building Complies with Computer	Performance			

Building Complies with Computer Performance 02 This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider. 03 This building incorporates one or more Special Features shown below

 Registration Number:
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 Registration Date/Time:
 03/27/2025
 HERS Provider:
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 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901

Project Name: 3 Story + Basement New Construction

Calculation Description: 3 Story + Basement New Construction

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Calculation Date/Time: 2025-03-27T13:21:57-04:00 Input File Name: 2800 Ocean Dr..ribd22

Calculation Date/Time: 2025-03-27T13:21:57-04:00

Input File Name: 2800 Ocean Dr..ribd22

ENERGY USE INTER	NSITY										
		Standard Design (kBtu	/ft ² - yr)	Proposed Design (kBtu/f	t ² - yr)	Complian	ce Margin	ı (kBtu/ft ² - yr)) r	Margin Percen	tage
Gros	s EUI ¹	13.7		11.31			2.39			17.45	
Net	EUI ²	7.22		4.83 2.39					33.1	3.1	
		t including PV) / Total Build ding PV) / Total Building An									
REQUIRED PV SYS	TEMS										
01	02	03	04	05	06	07	08	09	10	11	12
DC System Size (kWdc)	Exception	Module Type	Array Type	Power Electronics	CFI	Azimuth (deg)	Tilt Input	Array Angle (deg)	Tilt: (x in 12)	Inverter Eff. (%)	Annual Solar Acces (%)
2.42	NA	Standard (14-17%)	Fixed	none	true	150-270	n/a	n/a	<=7:12	96	98
REQUIRED SPECIA	L FEATURES										
The following are f	eatures that must b	e installed as condition for	meeting the mod	leled energy performance	e for this o	computer ana	lysis.				
 PV System: Cool roof											

Non-standard duct location (any location other than attic) Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed

Project Name: 3 Sto

HERS FEATURE SUMMARY							
The following is a summary of detail is provided in the buildi						gy performance for this comp	outer analysis. Additional
Quality insulation insta Indoor air quality venti Kitchen range hood Minimum Airflow Verified Refrigerant Ch Fan Efficacy Watts/CFN Verified heat pump rate Duct leakage testing	llation (QII) lation arge 1						
BUILDING - FEATURES INFOR							
01 Project Name	02 Conditioned Floor Are	03 a (ft ²) Number of Unit	Dwelling	04 Number of Bedrooms	05 Number of Zones	06 Number of Ventilation Cooling Systems	07 Number of Water Heating Systems
3 Story + Basement New Construction	2150	1		3	2	0	1
01	02	03		04	05	06	07
Zone Name	Zone Type	HVAC System Nar	ne Zo	one Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status
Basement-Zone 1- 705	Conditioned	HVAC-Zone 1		705	8	DHW System	New
1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Conditioned	HVAC-Zone 2		1445	9.3	DHW System	New

HERS FEATURE SUMMARY							
The following is a summary c detail is provided in the build						gy performance for this comp	uter analysis. Additional
Quality insulation insta Indoor air quality vent Kitchen range hood Minimum Airflow Verified Refrigerant Ch Fan Efficacy Watts/CFP Verified heat pump rat Duct leakage testing Ducts located within t	ilation harge M ted heating capacity he conditioned space (exc	ept < 12	ineal ft)				
01	02		03	04	05	06	07
Project Name	Conditioned Floor A	rea (ft ²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
3 Story + Basement New Construction	2150		1	3	2	0	1
ZONE INFORMATION							·
01	02		03	04	05	06	07
Zone Name	Zone Type	HVA	C System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status
Basement-Zone 1- 705	Conditioned		HVAC-Zone 1	705	8	DHW System	New
1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Conditioned		HVAC-Zone 2	1445	9.3	DHW System	New

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CERTIFICATE OF COM

Calculation Descrip

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: 3 Story + Basement New Construction

Calculation Description: 3 Story + Basement New Construction

Calculation Date/Time: 2025-03-27T13:21:57-04:00 Input File Name: 2800 Ocean Dr..ribd22

		Energy Design Ratings			Compliance Margins	
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
Standard Design	39.7	44	31.6		1 1	
Proposed Design	33.1	38.3	29.1	6.6	5.7	2.5
		RESULT ³	3: PASS		• • •	
Building complies when source energy, efficin Standard Design PV Capacity: 2.42 kWdd PV System resized to 2.42 kWdc (a facto	:			imet load hour limits are r		

	Registration Date/Time: 03/27/2025 14:57	HERS Provider: CHEERS
locument.	using information uploaded by third parties not affiliated with or rel	ated to CHEERS. Therefore, CHEERS IS h
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COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD		CF1R-PRF-01-E
Story + Basement New Construction	Calculation Date/Time: 2025-03-27T13:21:57-04:00	(Page 5 of 16)
ription: 3 Story + Basement New Construction	Input File Name: 2800 Ocean Drribd22	

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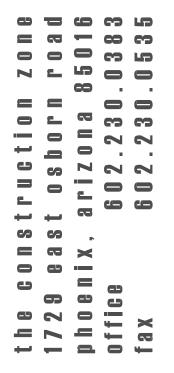
CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: 3 Story + Basement New Construction Calculation Description: 3 Story + Basement New Construction

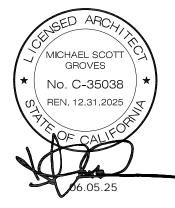
····	. S Story + Basement New Co		input ne nume. 2000			
ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	3.35	15.02	1.93	13.83	1.42	1.19
Space Cooling	0.03	2.43	0	0.12	0.03	2.31
IAQ Ventilation	0.33	3.51	0.33	3.51	0	0
Water Heating	1.12	12.26	0.92	11.47	0.2	0.79
Self Utilization/Flexibility Credit				0		0
Efficiency Compliance Total	4.83	33.22	3.18	28.93	1.65	4.29
Photovoltaics	-1.28	-34.92	-1.28	-35.11		
Battery			0	0		
Flexibility						
Indoor Lighting	0.74	7.46	0.74	7.46		
Appl. & Cooking	2.8	19.39	2.82	19.55		
Plug Loads	2.55	26.61	2.55	26.61		
Outdoor Lighting	0.19	1.73	0.19	1.73		
TOTAL COMPLIANCE	9.83	53.49	8.2	49.17		

CA Building Energy Efficiency Standards - 2022 Residential Compliance

		PERFORMANCE COMPLIA					CF1R-PRF-01-E
	+ Basement New Const		C	Calculation Date/Ti	me: 2025-03-27T13:21	:57-04:00	(Page 6 of 16)
Calculation Description	on: 3 Story + Basement N	lew Construction	I	nput File Name: 28	00 Ocean Drribd22		
OPAQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft2)	Tilt (deg)
Front Wall-Z2-336.1+303.4	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Ext Wall- 2x6 R21	70	Front	639.5	253.58	90
Left Wall-Z2-290.9+262.6	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Ext Wall- 2x6 R21	160	Left	553.5	41.62	90
Back Wall-Z2-336.2+303.4	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Ext Wall- 2x6 R21	250	Back	639.6	61	90
Right Wall-Z2-289.1+261	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Ext Wall- 2x6 R21	340	Right	550.1	111.29	90
Front Wall-1st Floor	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Ext Wall- 2x6 R21	70	Front	118.4	0	90
Left Wall-1st Floor	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Ext Wall- 2x6 R21	160	Left	230.6	38.04	90
Back Wall-1st Floor	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Ext Wall- 2x6 R21	250	Back	458.1	0	90
Right Wall-1st Floor	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Ext Wall- 2x6 R21	340	Right	626.8	0	90
HouseToGarage	Garage>>Basement- Zone 1- 705	R21 IntWall Cons	n/a	n/a	208	21.6	n/a
Garage Below	Garage	Ext Floor Cons	n/a	n/a	420	n/a	n/a
Underground Wall-Front	Basement-Zone 1- 705	Below Grade Walls	n/a	n/a	282.5	n/a	n/a
Underground Wall-Left	Basement-Zone 1- 705	Below Grade Walls	n/a	n/a	228.8	n/a	n/a

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: 3 Story + Basement New Construction

Calculation Date/Time: 2025-03-27T13:21:57-04:00 Calculation Description: 3 Story + Basement New Construction Input File Name: 2800 Ocean Dr..ribd22

AQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft2)	Tilt (deg)
Underground Wall-Back	Basement-Zone 1- 705	Below Grade Walls	n/a	n/a	228.8	n/a	n/a
Underground Wall-Right	Basement-Zone 1- 705	Below Grade Walls	n/a	n/a	245.1	n/a	n/a
Garage Above	Basement-Zone 1- 705	Garage Ceiling	n/a	n/a	420	n/a	n/a
GarWallFront	Garage	Garage Ext Wall 1	70	Front	195	128	90
GarWallBack	Garage	Garage Ext Wall 1	250	Back	42	0	90
GarWallRight	Garage	Garage Ext Wall 1	340	Right	120	0	90

OPAQUE SURFAC	ES - CATHEDRAL C	EILINGS								
01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Area (ft ²)	Skylight Area (ft ²)	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Cool Roof
FSlope5:12	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Low Slope Cathedral	70	Front	662	0	0.5	0.2	0.85	Yes
LSlope5:12	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Low Slope Cathedral	160	Left	28.5	0	0.5	0.2	0.85	Yes
RSlope5:12	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200	Low Slope Cathedral	340	Right	96	0	0.5	0.2	0.85	Yes

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Schema Version: rev 20220901

Input File Name: 2800 Ocean Dr..ribd22 Calculation Description: 3 Story + Basement New Construction SLAB FLOORS 01 02 03 04 06 07 08 05 Edge Insul. R-value Edge Insul. R-value Perimeter (ft) **Carpeted Fraction** Heated Name Zone Area (ft²) and Depth and Depth GarSlab Garage 420 58.8 none 0% No 0 1st, 2nd + 3rd Slab On Grade Floor-Zone 2-661 + 2107 196 none 0 80% No 584 +200 Basement-Zone 1-Underground Floor 1 705 n/a n/a 80% No n/a 705

Calculation Date/Time: 2025-03-27T13:21:57-04:00

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Surface Type Construction Type Framing		Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
Ext Wall- 2x6 R21	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / None	0.062	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Sheathing / Insulation: Wood Siding/sheathing/decking Exterior Finish: Wood Siding/sheathing/decking
Garage Ext Wall 1	Exterior Walls	Concrete / ICF / Brick	None	n/a	None / None	0.461	Inside Finish: Gypsum Board Mass Layer: 8 in. Concrete Exterior Finish: All Other Siding
Low Slope Cathedral	Cathedral Ceilings	Built-up Roof	2x10 @ 16 in. O. C.	R-30	None / None	0.037	Roofing: Light Roof (Asphalt Shingl Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-30 / 2x10 Inside Finish: Gypsum Board

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: 3 Story + Basement New Construction

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FENESTRATION / GLAZING

02

01	
Name	
FWall-Kitchen- SGD	5
FWall-Kitchen- OP	v
FWall-Kitchen- FX	v
FWall-Primary Bedroom-DR	\$
FWall-Guest Bedroom-OP	\$
LWall-Powder- FX	v
LWall-Stair-FX 1	W

LWall-Guest Bath-OP BWall-Dining-FX

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: 3 Story + Basement New Construction **Calculation Descri** OPAQUE SURFACE (01 Construction Nar

BUILDING ENVELOPE - HERS VERIFICATION Quality Insulation

Requi

WATER HEATING SY 01

> Name DHW System

CA Building Energy Efficiency Standards - 2022 Residential Compliance

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

04

05

Project Name: 3 Story + Basement New Construction

03

Calculation Description: 3 Story + Basement New Construction

Calculation Date/Time: 2025-03-27T13:21:57-04:00 Input File Name: 2800 Ocean Dr..ribd22

11

12

13

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14

Exterior Shading

CF1R-PRF-01-E

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: 3 Story + Basement New Construction Calculation Description: 3 Story + Basement New Cons FENESTRATION / GLAZING

			04
Name	Туре	Surface	Orientation
BWall-Entry Hall-DR	Window	Back Wall-Z2- 336.2+303.4	Back
BWall-Primary Bath-OP	Window	Back Wall-Z2- 336.2+303.4	Back
RWall-Kitchen- SGD	Window	Right Wall-Z2- 289.1+261	Right
RWall-Primary Bath-FX	Window	Right Wall-Z2- 289.1+261	Right
LWall-Laundry- DR	Window	Left Wall-1st Floor	Left
LWall-Guest Bedroom-OP	Window	Left Wall-1st Floor	Left
OPAQUE DOORS		· · · · · · · · · · · · · · · · · · ·	
	01		
	Name		
	GarDoor		
Fire	-Rated Door-I	4	

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2.7 5.2

CERTIFICATE OF CO	MPLIANCE - RESID	ENTIAL PERFORI	MANCE		METHOD								CF1R-PRF-01-E
Project Name: 3 St	ory + Basement Ne	w Construction				Calculation Date/Time: 2025-03-27T13:21:57-04:00 (Page 12 o							(Page 12 of 16)
Calculation Descri	otion: 3 Story + Base	ement New Cons	structio	on		Input File	Name: 2800	Ocean	n Drribd	22			
WATER HEATERS - N	EEA HEAT PUMP												
01	02	(03	()4		05		06		07		08
Name	# of Units	Tank V	/ol. (gal)		eat Pump and		eat Pump odel	Tar	nk Locatio	on Duo	ct Inlet Air Sour	ce D	uct Outlet Air Source
Heat Pump	1	٤	30	Ger	neric	Tier3G	eneric80	ľ	FankZone		1st, 2nd + 3rd por-Zone 2- 661 584 +200	+	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200
WATER HEATING - H	ERS VERIFICATION												
01	02	2		03	0	4		05	-		06		07
Name	Pipe Ins	ulation	Parall	lel Piping	Compact D	listribution	Compact	: Distrik Type	bution	Recircula	ation Control	Shov	ver Drain Water Heat Recovery
DHW System - 1,	/1 Not Red	quired	Not F	Required	Not Re	quired	Ν	None		Not	Required		Not Required
	IG SYSTEMS												
01	02	03		04	0	5	06			07	08		09
Name	System Type	Heating Unit Na	ame He	eating Equipmen Count	t Cooling U	nit Name	Cooling Equip Count	ment	Fan	Name	Distribution N	lame	Required Thermostat Type
HVAC-Zone 1	Heat pump heating cooling	Heat Pump Syst	em	1	Heat Pum	np System L			HVAC F	an System 1	Distributic System-Z		Setback
HVAC-Zone 2	Heat pump heating cooling	Heat Pump Syst 2	em	1		np System 2	1	0	HVAC F	an System 2	Distributio System-Z		Setback

CERTIFICATE OF CO	MPLIANCE - RESIDI	ENTIAL PERFORM	ANCE CO	MPLIANCE I	METHOD							CF1R-PRF-01-E
Project Name: 3 Sto	ory + Basement Nev	w Construction			Calc	ulatior	n Date/Time: 20	25-03-27	T13:21:57-04	4:00		(Page 12 of 16)
Calculation Descrip	tion: 3 Story + Base	ement New Const	ruction		Inpu	t File I	Name: 2800 Oce	ean Drrik	od22			
WATER HEATERS - NE	EA HEAT PUMP											
01	02	03		0	4	0	5	06		07		08
Name	# of Units	Tank Vo	l. (gal)		at Pump Ni and	NEEA Heat Pump Model		Tank Loca	tion Du	ct Inlet Air Sour	ce D	uct Outlet Air Source
Heat Pump	1	80		Gen	ieric T	ier3Ge	eneric80	TankZor	ne Fl	1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200		1st, 2nd + 3rd Floor-Zone 2- 661 + 584 +200
WATER HEATING - HE	RS VERIFICATION											
01	02		03		04		05			06		07
Name	Pipe Inst	ulation	Parallel Pi	ping	Compact Distrib	ution	Compact Dis Typ		Recircul	irculation Control		ver Drain Water Heat Recovery
DHW System - 1/2	1 Not Rec	Juired	Not Requ	ired	Not Require	d	Non	e	Not	Required		Not Required
	G SYSTEMS					-	-1					
01	02	03		04	05		06		07	08		09
Name	System Type	Heating Unit Nam	he Heatin	g Equipment Count	Cooling Unit Na	ame	Cooling Equipme Count	^{nt} F	an Name	Distribution Name		Required Thermostat Type
HVAC-Zone 1	Heat pump heating cooling	Heat Pump Syster 1	n	1	Heat Pump Sys	tem	1	HVAC Fan Systen 1		System Distribution System-Z1		Setback
HVAC-Zone 2	Heat pump heating cooling	Heat Pump Syster 2	n	1	Heat Pump Sys	tem	1	HVA	Fan System 2	Distributic System-Z		Setback

Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shadir
Window	Front Wall-Z2- 336.1+303.4	Front	70	13	8	1	104	0.35	NFRC	0.25	NFRC	Bug Screen
Window	Front Wall-Z2- 336.1+303.4	Front	70	10	5.2	1	52	0.4	NFRC	0.29	NFRC	Bug Screen
Window	Front Wall-Z2- 336.1+303.4	Front	70	2.7	5	1	13.5	0.29	NFRC	0.23	NFRC	Bug Screen
Window	Front Wall-Z2- 336.1+303.4	Front	70	7	8	1	56	0.35	NFRC	0.25	NFRC	Bug Screen
Window	Front Wall-Z2- 336.1+303.4	Front	70	2.7	5.2	2	28.08	0.4	NFRC	0.22	NFRC	Bug Screen
Window	Left Wall-Z2- 290.9+262.6	Left	160	2.7	2.7	1	7.29	0.29	NFRC	0.23	NFRC	Bug Screen
Window	Left Wall-Z2- 290.9+262.6	Left	160	5.2	5.2	1	27.04	0.27	NFRC	0.23	NFRC	Bug Screen
Window	Left Wall-Z2- 290.9+262.6	Left	160	2.7	2.7	1	7.29	0.29	NFRC	0.23	NFRC	Bug Screen
Window	Back Wall-Z2- 336.2+303.4	Back	250	2.5	8	1	20	0.29	NFRC	0.23	NFRC	Bug Screen

06 07 08 09

CA Building Energy Efficiency Standards - 2022 Residential Compliance

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 Report Version: 2022.0.000 Schema Version: rev 20220901

Report Generated: 2025-03-27 10:22:40

roject Name: 3 Story +	Basement New Const	ruction	Calcul	Calculation Date/Time: 2025-03-27T13:21:57-04:00 (Page 11 of 16)						
alculation Description:	3 Story + Basement N	New Construction	Input	Input File Name: 2800 Ocean Drribd22						
PAQUE SURFACE CONSTR	RUCTIONS									
01	02	03	04	05	06	07	08			
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers			
R21 IntWall Cons	Interior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-21	None / None	0.064	Inside Finish: Gypsum Board Cavity / Frame: R-21 / 2x6 Other Side Finish: Gypsum Board			
Ext Floor Cons	Exterior Floors	Wood Framed Floor	2x10 @ 16 in. O. C.	R-21	None / None	0.044	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-21 / 2x10			
Below Grade Walls	Underground Walls	Concrete / ICF / Brick	None	n/a	15 / None	0.073	Inside Finish: Gypsum Board Insulation/Furring: R-15 / 3.5in. wd Mass Layer: 8 in. Concrete			
Garage Ceiling	Interior Ceiling	Wood Framed Ceiling	2x12 @ 16 in. O. C.	R-19	None / None	0.047	Floor Surface: Hardwood Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 / 2x12 Ceiling Below Finish: Gypsum Board			

01	02	03	04	05
on Installation (QII)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50	CFM50
quired	Not Required	N/A	n/a	n/a

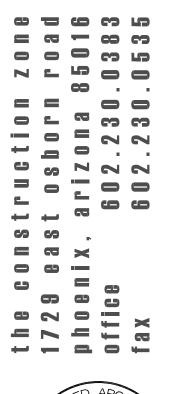
i SYS	TEMS							
	02	03	04	05	06	07	08	09
	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)
1	Domestic Hot Water (DHW)	Standard	Heat Pump	1	n/a	None	n/a	Heat Pump (1)

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8

CF1R-PRF-01-E

Bug Screen

Bug Screen

Bug Screen





T7/L-2

340

160

160

02

Side of Building

GarWallFront

HouseToGarage

Calculation Date/Time: 2025-03-27T13:21:57-04:00 (Pa										
nstruc	tion			Input Fi	le Name	: 2800 Ocear	Drribd22			
4	05	06	07	08	09	10	11	12	13	14
tation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
ck	250	4	8	1	32	0.31	NFRC	0.23	NFRC	Bug Screen
ck	250	3	3	1	9	0.29	NFRC	0.23	NFRC	Bug Screen
t	340	13	8	1	104	0.35	NFRC	0.25	NFRC	Bug Screen

0.29

0.31

0.4

03

Area (ft²)

128

21.6

7.29

24

14.04

1

NFRC

NFRC

NFRC

0.23

0.23

0.22

NFRC

NFRC

NFRC

04

U-factor

1

0.5

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: 3 Story + Basement New Construction

Calculation Description: 3 Story + Basement New Construction

HVAC - HEAT PUMPS	5											
01	02	03	04	05	06	07	08	09	10	11	12	13
			Heating		Cooling							
Name	System Type	Number of Units	Heating Efficiency Type	HSPF/HS PF2/COP		Cap 17	Cooling Efficiency Type	SEER/SE ER2	EER/EER 2/CEER	Zonally Controlled	Compressor Type	HERS Verification
Heat Pump System 1	Central split HP	1	HSPF2	7.5	24000	18000	EER2SEER2	14.3	11.7	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump
Heat Pump System 2	Central split HP	1	HSPF2	7.5	24000	18000	EER2SEER2	14.3	11.7	Not Zonal	Single Speed	Heat Pump System 2-hers-htpump

,								
IVAC HEAT PUMPS -	HERS VERIFICATION							
01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER/EER2	Verified SEER/SEER2	Verified Refrigerant Charge	Verified HSPF/HSPF2	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Required	350	Not Required	Not Required	Yes	No	Yes	Yes
Heat Pump System 2-hers-htpump	Required	350	Not Required	Not Required	Yes	No	Yes	Yes
HVAC - DISTRIBUTION	N SYSTEMS							
01	02	03	04 05	06 07	08 09	10	11	12

Name Type		Design Type	Duct Ins. R-value		Duct Location		Surfac	e Area	Bypass Duct	Duct Leakage	HERS Verification
Name	туре	Design Type	Supply Return Supply Return Su		Supply	Return	Bypass Duct	Duct Leakage	HERS VERIfication		
Distribution System-Z1	Conditioned space - except 12ft	Non-Verified	R-6	R-6	Conditi oned Zone	Conditi oned Zone	n/a	n/a	No Bypass Duct	Sealed and Tested	Distribution System-Z1-hers- dist
Distribution System-Z2	Conditioned space - except 12ft	Non-Verified	R-6	R-6	Conditi oned Zone	Conditi oned Zone	n/a	n/a	No Bypass Duct	Sealed and Tested	Distribution System-Z2-hers- dist

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: 3 Story + Basement New Construction

Calculation Date/Time: 2025-03-27T13:21:57-04:00 Input File Name: 2800 Ocean Dr..ribd22

Calculation Date/Time: 2025-03-27T13:21:57-04:00

Input File Name: 2800 Ocean Dr..ribd22

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

Calculation Description: 3 Story + Basement New Construction

Documentation Author Name:	Documentation Author Signature:
Melissa Alves	Melíssa Alves
Company:	Signature Date:
Melissa Alves Drafting	03/27/2025
Address:	CEA/ HERS Certification Identification (If applicable):
922 Coquina Lane #3	
City/State/Zip:	Phone:
Vero Beach, FL 32963	5623627922
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State	of California:
certify the following under penalty of perjury, under the laws of the State	of California: ode to accept responsibility for the building design identified on this Certificate of Compliance.
 certify the following under penalty of perjury, under the laws of the State 1. I am eligible under Division 3 of the Business and Professions C 2. I certify that the energy features and performance specification 	ode to accept responsibility for the building design identified on this Certificate of Compliance. Is identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulation
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 certify the following under penalty of perjury, under the laws of the State I am eligible under Division 3 of the Business and Professions C I certify that the energy features and performance specificatio The building design features or system design features identific calculations, plans and specifications submitted to the enforce 	ode to accept responsibility for the building design identified on this Certificate of Compliance. In identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulation and on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, ment agency for approval with this building permit application.
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 certify the following under penalty of perjury, under the laws of the State I am eligible under Division 3 of the Business and Professions 0 I certify that the energy features and performance specificatio The building design features or system design features identific calculations, plans and specifications submitted to the enforce Responsible Designer Name: michael groves 	The second secon
 I certify the following under penalty of perjury, under the laws of the State I am eligible under Division 3 of the Business and Professions O I certify that the energy features and performance specificatio The building design features or system design features identific calculations, plans and specifications submitted to the enforce Responsible Designer Name: 	ode to accept responsibility for the building design identified on this Certificate of Compliance. In a identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulation and on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, ment agency for approval with this building permit application. Responsible Designer Signature:
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 I certify the following under penalty of perjury, under the laws of the State I am eligible under Division 3 of the Business and Professions C I certify that the energy features and performance specificatio The building design features or system design features identific calculations, plans and specifications submitted to the enforce Responsible Designer Name: michael groves Company: the construction zone 	ode to accept responsibility for the building design identified on this Certificate of Compliance. ns identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulation ed on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, ment agency for approval with this building permit application. Responsible Designer Signature: <i>Múchael groves</i> Date Signed:
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Project Name: 3 Story + Basement New Construction Calculation Description: 3 Story + Basement New Construction

HVAC DISTRIBUTION
01
Name
Distribution System-Z1-hers- dist
Distribution System-Z2-hers- dist

HVAC - FAN SYSTEM

HVAC FAN SYSTEMS

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: 3 Story + Basement New Construction Calculation Description: 3 Story + Basement New Construction

01	02	03	04	05	06	07	08	09
Dwelling Unit	Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE/ASRE	Includes Fault Indicator Display?	HERS Verification	Status
SFam IAQVentRpt	91	0.35	Exhaust	No	n/a / n/a	No	Yes	
PROJECT NOTES								
CONTACT DOCUMEN ⁻ CONSTRUCTION AT E/	TATION AUTHOR REGA ARLIEST DATE POSSIBI		S THAT MAY EFFECT T2 OT REPORTED CONSTR					
(562) 362-7922								

DISTRIBUTION	- HERS VERIFICATION							
01	02	03	04	05	06	07	08	09
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified Duct Location	Verified Duct Design	Buried Ducts	Deeply Buried Ducts	Low-leakage Air Handler	Low Leakage Ducts Entirely in Conditioned Space
tribution m-Z1-hers- dist	Yes	5.0	Required	Not Required	Not Required	Credit not taken	Not Required	No
tribution m-Z2-hers- dist	Yes	5.0	Required	Not Required	Not Required	Credit not taken	Not Required	No
FAN SYSTEMS	i							

01	02	03	04	
Name	Туре	Fan Power (Watts/CFM)	Name	
HVAC Fan System 1	HVAC Fan	0.45	HVAC Fan System 1-hers-fan	
HVAC Fan System 2	HVAC Fan	0.45	HVAC Fan System 2-hers-fan	
STEMS - HERS VERIFICATION				
01	02		03	
Name	Verified Fan Watt Draw	Required Far	Required Fan Efficacy (Watts/CFM)	
HVAC Fan System 1-hers-fan	Required		0.45	
HVAC Fan System 2-hers-fan	Required		0.45	

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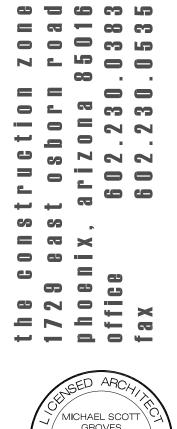
CF1R-PRF-01-E				
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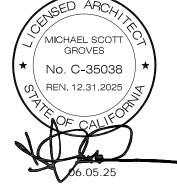
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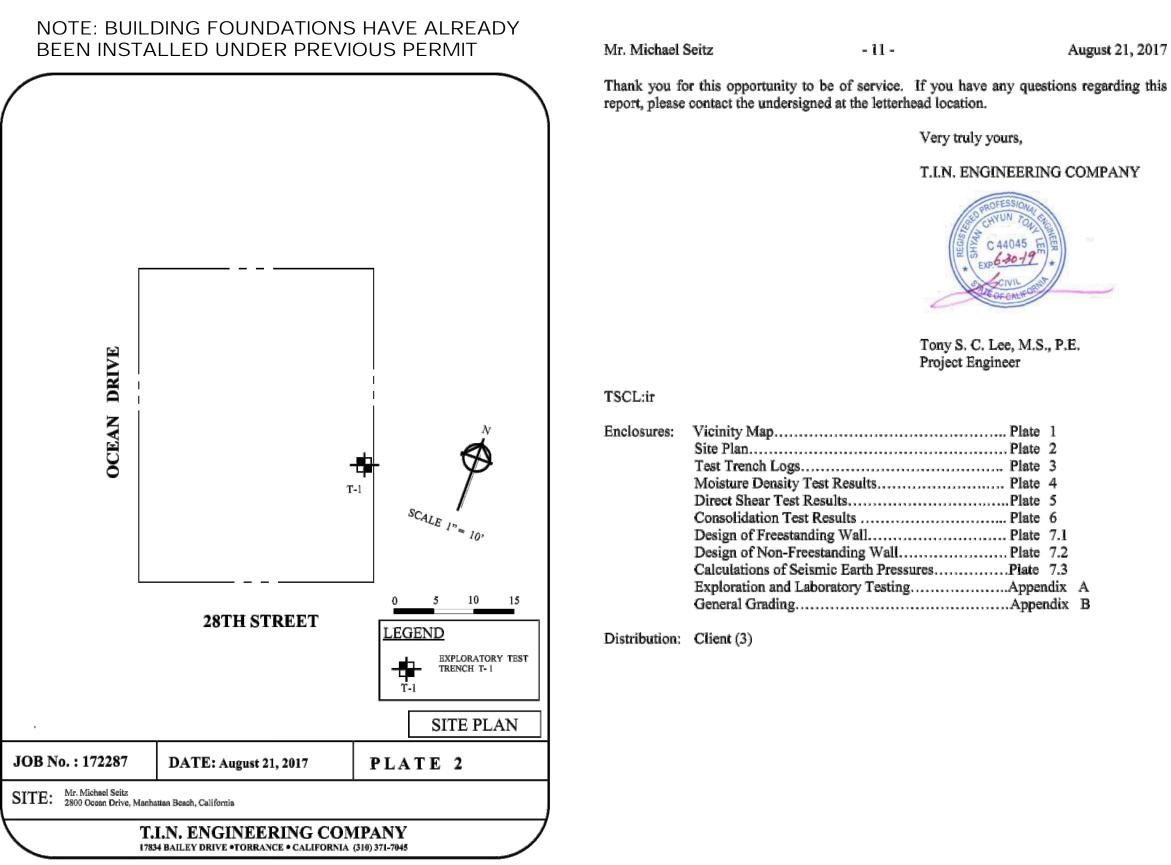
Report Generated: 2025-03-27 10:22:40











Mr.	Michael	Seitz
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August 21, 2017

at least one percent, preferably two percent to daylight, with perforations pointing down and out to the side. Open head joints in concrete block are often inadequate as grout flow may seal them off. The 4-inch perforated pipe, encased in at least one cubic foot of 3/4" crushed rock for the subdrain system behind walls, should be wrapped with geo-textile filter cloth.

Where penetration of moisture or water through walls is undesirable, the designer should take appropriate measures. As a minimum the designer should give consideration to treatment of the backfill side of the wall with a bituminous coating for resistance to penetration of water vapor. Troweled mortar coats, particularly for masonry surfaces, may be required to level irregular wall surfaces before application of bituminous coatings. In more critical applications, particularly where there may be a hydrostatic head of water, a bituminous membrane or similar system should be considered. All concrete and masonry should be of durable materials and carefully constructed to obtain a watertight member.

Shoring

Shoring may consist of steel soldier piles, placed in drilled holes are to be filled with concrete. For the design of soldier piles, a minimum of two diameters on center, the allowable lateral bearing value of the soils below the excavated level may be assumed to be equal to the pressure developed by a fluid with a density of 250 pounds per square foot per foot of depth, up to a maximum of 2,500 pounds per square foot, assuming firm contact between the soldier piles and the undisturbed soils. Structural concrete should be used for that portion of soldier pile which is below the excavated level; lean mix concrete may be used above the level. Frictional resistance between the soldier piles and the retained earth may be used in resisting the downward component of the anchor load. The coefficient of friction between the soldier piles and the retained earth may be taken as 0.4 assuming that uniform full bearing will be developed between the steel soldier beam and the lean-mix concrete and between the lean mix concrete and the retained earth.

Continuous lagging will be required between the soldier piles within most existing soils, and where any water seepage occurs. The soldier piles should be designed for the full anticipated pressure. However, the pressure on the lagging will be less due to arching in the soil. We recommend that the lagging be designed for the recommended earth pressure but limited to maximum value of 400 pounds per square foot.

Some deflection of the shoring should be anticipated although it is difficult to predict. It could be on the order of one inch at the top of 30 foot high shoring. If greater deflections occur during construction, bracing should be added to minimize damage to adjacent buildings and utilities. A greater active pressure should be used in the shoring design during the planning stages if it is desirable to reduce deflections.

Shoring should be monitored during the entire construction by surveying methods of the top of the steel beams and periodic photographs taken of adjacent structural existing cracks to aid in the resolution of possible disputes.

T.I.N. ENGINEERING COMPANY GEOTECHNICAL • STRUCTURAL • ENVIRONMENTAL Mr. Michael Seitz -7-

The hydrostatic pressure of water where water is not drained should be added to the above described pressure.

Temporary drainage devices should be installed at the top of the shored banks to divert water away from the banks. Shoring should be monitored during the entire construction to detect incipient movement which may indicate possible failure. The contractor should be solely responsible for safety during construction.

We should review shoring plans and specifications before bidding and are available to assist further in their preparation.

Temporary Construction Excavations

T.I.N. ENGINEERING COMPANY

Excavations will be required for the proposed construction. The excavation is expected to expose on-site beach sand soil which is not suitable for vertical excavations over 1 foot. Portions of excavations over one foot should be trimmed to a 3:1 slope gradient. All excavations should be stabilized within 30 days of initial excavation. Water should not be allowed to pond on top of the excavation nor to flow toward it. No vehicular surcharge should be allowed within five feet of the top of cut.

All safety provisions of Cal OSHA and other related statutory agencies should be adhered to, especially as related to support of adjacent structures.

Temporary shoring should be designed for an active equivalent fluid pressure of 30 pounds per cubic foot.

Temporary excavations during the raining season are subject to potential hazards, such as caving, floods, erosion, raveling of the cuts and concentrated drainage. The potential damage from these hazards can be greatly reduced by maintenance of cuts and drainage facilities and erosion controls in the surrounding areas of the cuts. It is the responsibility of the owner or the project contractors to maintain the excavated areas and to improve any deficiencies found during the raining season.

<u>Slabs On-Grade</u>

The on-site soils are classified to be non-expansive. Slabs should be cast over a minimum of two inches of vibrated sand or miscellaneous base material placed on firm subgrade soil. The subgrade soil should be proof-rolled to remove any soft spots prior to covering of sand bedding and vapor barrier. Slabs should be reinforced with a minimum of #4 rebars at 24 inches on center each way. Slabs which will be provided with a floor covering should be protected by a polyethylene plastic vapor barrier. The barrier should be covered with a minimum two-inch layer of clean sand or miscellaneous base material to prevent punctures and aid in the concrete cure.

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August 21, 2017 Mr. Michael Seitz <u>Groundwater</u>

No groundwater was encountered, nor were any springs or seeps observed during the course of this investigation. However, it should be noted that fluctuations in the level of the ground water may occur due to variations in rainfall, temperature, and other factors not evident at the time of our study.

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Conclusions and Recommendations

<u>General</u>

Based upon our evaluation of the site and soil conditions, the foregoing data and information, the following conclusions and recommendations are made. Construction of the proposed residential building development is feasible from the standpoint of geotechnical engineering practice at the subject site, provided all recommendations and conditions made herein are incorporated into all design. The thickness of earth materials and the depths to foundation stratum indicated in this report are based on the data obtained from the exploratory trench. The actual thickness of earth materials and depths to foundation stratum beyond the exploratory trench may vary from that indicated herein. The design and construction procedures should take this into account.

- 1. The foundations of the proposed residential building should be founded on spread footings penetrating into firm beach sand as specified below. The depth to firm beach sand at the subject site is estimated to be approximately 1 foot below the existing grade, although it may be deeper.
- 2. The foundation trenches of the proposed residential building should be re-moistened prior to pouring of concrete.

Spread Footing Foundations

Spread footings founded into firm beach sand may be used for support of the proposed residential building and new basement retaining wall. The allowable bearing value for foundation placed as recommended may by calculated from the following. The allowable bearing value should not exceed 2,000 pounds per square foot.

Allowable Bearing Capacity...1,600 psf + 200d

d = depth of foundation into firm beach sand in feet, "d" measured from 1.5 feet below existing grade.

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Grading

are conveyed.

compound.

Ordinances.

Plan Reviews

representative of this office.

On-Site Construction Reviews

Drainage Control

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A minimum 4 inch concrete slab should be designed for interior and exterior concrete slabs.

As is typical in reinforced concrete construction, cracking of concrete can occur and is a

common process. Reinforcement and crack control joints are intended to minimize this risk. In addition, irregularities of new slabs are common. A completed slab is generally not

The General Earthwork Specifications, Appendix B, should be used in preparation of the

grading plans and job specifications where engineered fills are used and constitute our

definition of an engineered fill. We should review all documents prior to submittal for

statutory permits or contracting in order to ascertain that the intents of our recommendations

Slabs and planted areas immediately adjacent to the dwelling or appurtenant structures

should slope away from said structures to mitigate pooling of water. All slabs and planted

areas should be sloped to drain to a safe point of collection. Slabs should have a minimum

slope of one percent and planted areas a minimum of two percent. All roof drainage should

be collected in eave gutters that discharge directly into engineered non-erosive drainage

devices. All joints in slab and swales should be maintained sealed with an appropriate joint

Final development plans should be reviewed by this office to ascertain that the general

intents of the recommendations of this report have been incorporated into the plans.

Additional structures not analyzed during this investigation should be reviewed by a

On-site construction reviews of all grading, drainage, and foundation work should be

performed by a field representative of this office to ascertain compliance with the

recommendations of this report. Final grading and/or construction should be observed and a

perfectly level and not free of some type of cracking.

erosive devices to a safe point of discharge and to the streets.

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written observation form or report issued by this office stating that the recommendations of this report. The stages at which our on-site construct be performed should include, but are not necessarily limited to, the following

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- 1. Observation of footing excavations prior to placement of form boards
- 2. Observation of installation of shoring system.
- 3. As called for in Appendix B for on-site construction reviews and test work and of compacted earth backfilling behind new retaining walls.
- During proof rolling of subgrade soil before placement of base mater steel, and again following the placement of base material prior to placing
- 5. Observation of installation of subdrain perforated pipes before cover filter material, and again after placing the filter material over perfo covering with backfill.
- Observation of installation of drainage structures and completion of all

All work and materials should comply with the latest applicable specifica Manhattan Beach.

Permits 1 -

Design and construction should be carried out under applicable conditions City of Manhattan Beach Building Code and other concerned statutory auth

<u>Remark</u>

The conclusions and recommendations submitted in this report are base data obtained from one exploratory test trench excavated by this office and during the field exploration operations. The nature and extent of variation trench may not become evident until construction. If variations then app be necessary to reevaluate the recommendations of this report. No war should any be construed that deep-seated soil or geological weaknesses n the depths explored. This office shall be notified if any unusual condition that disclosed by this report are encountered during construction.

In the event of any change in the assumed nature, or design of the preplanned, the conclusions and recommendations contained in this reconsidered valid unless the changes are reviewed by this office and the report modified or verified in writing.

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Minimum Embedment Below Lowest Adjacent Grade and into Firm Beach Sand One-Story and Retaining Wall..... 12 inches Two-Story18 inches

- 4 -

. 24 inches Three-Story .. Minimum Width of Spread Foundation:

..15 inches One-Story Two-Story and Three-Story18 inches

All continuous footings should be reinforced with a minimum of two placed near the top, and one placed near the bottom of the footings.

Lateral Design

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Resistance to lateral loading may be provided by friction acting at the b and by passive earth pressure within firm beach sand. An allowable coeff 0.35 may be used with the dead load forces.

For spread footings in firm beach sand the allowable passive earth pressure as an equivalent fluid having a density of 250 pounds per square foo maximum earth pressure of 2,500 pounds per square foot.

When combining the passive and friction values for calculating the late passive component shall be reduced by one third.

frequently applied live loads and may be increased by one-third for shor

Foundation Settlement

Settlement of the foundation system is expected to occur on initial appl The settlement is expected to be 1/4 to 3/4 inch, depending upon final settlement is not expected to exceed 1/3 inch for a horizontal distance of 30

Beach sand was encountered at the subject site. The foundations of the p building are to be founded into firm beach sand. Therefore, the coefficients should be utilized for designs of the proposed structures at the

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Control of soil moisture is essential for the long term performance of improvements. All roof and surface drainage should be conducted away from the development in engineered non-

Drainage devices shall be provided as specified by the Building Code and Grading

The vertical and lateral bearing values indicated above are for the total which includes the effects of wind or seismic forces.

Seismic Coefficients

				the construction zone the construction zone	
August 21, 2017	Mr. Michael Seitz	- 5 -	August 21, 2017	; 0 n s t e a s t n i x , a	
S	 Site Class: D Site Coefficient, F_u Site Coefficient, F_u Spectral Accelerati Spectral Accelerati Maximum Spectral Maximum Spectral 	-	g .613g $S_{MS} = F_a S_s = 1.628g$ riod, $S_{M1} = F_v S_1 = 0.919g$	the C the C	
o #4 steel bars, one		cceleration at 1-Second Period, S tegory: D	_	★ No. C-35038 ★ 90 W REN. 12.31.2025 ★ 90 W REN. 12	
base of foundations efficient of friction of	Freestanding walls should be basement/retaining walls exce dynamic seismic lateral earth static lateral earth pressures.	designed for static earth pressure eed 6 feet in retained height, the pressures based on the Buildin Based upon the one-half of 2/3 of	e walls should be designed for g Code requirements plus the f the MCE_R value (0.613g), the		
ure may be computed foot per foot with a	seismic earth pressures used equivalent fluid pressure of 28 For allowable bearing values see "Lateral Design."	OF THE CONS			
ateral resistance, the otal of dead and all hort duration loading	deflecting outward under the be considered as non-freestan- by the foundation and the upp- earth pressures. The earth pre- block as shown in the attache	Ils retaining earth where the top lateral earth pressure, such as by ding walls. The wall should be er floor slabs with those elements essure may be computed as equiv ed Plate 7.2. The Engineer or Ar	y a concrete floor slab, should considered as being supported s being designed to support the valent to a trapezoidal pressure	S E E E E E E E E E E E E E E E E E E E	
plication of loading. l loads. Differential 30 feet.	"Grading", or with uniform of subdrains. If the wall is back with an impermeable layer of minimum diameter perforated	with on-site soil materials, co crushed rock vibrated into place kfilled with the latter, the upper of compacted earth. The subdra pipe placed within filter material ally to any soil and 2 inches clea	e, and provided with backfill two feet should be backfilled ains should consist of 4-inch 1 3 to 5 inches vertically above	EBBRIT BET BET BET BET BET FIS DRAWING IS AN INSTRUMENT OF SERVICE AND PROPERTY OF THE CONSTRU-	
proposed residential e following seismic ne subject site:	surface. The filter material s material should be two feet w placed up against the stem of of the wall to within 24 inche	should consist of ³ / ₄ inch crushed ide, or the width of the area to b the wall and a one-foot thicknes s of the finish grade surface. Th elow finished floor slab elevation	d rock. The base of the filter be backfilled whichever is less, as continued up along the stem he invert of the perforated pipe		
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the work meets the uction reviews are to wing stages of work:	their representative to insure called to the attention of the a	e understanding that it is the resp that the information and recomm architect and engineers for the pr teps are taken to see that the cont the field	nendations contained herein are roject and incorporated into the		
s or reinforcing steel. testing of all grading	This report has been prepared accordance with generally a warranties either expressed of the terms of this agreement ar				
aterial or reinforcing cing reinforcing.	design and specifications in	It is recommended that this office be provided the opportunity for a general review of final design and specifications in order that earthwork and foundation recommendations may be properly interpreted and implemented in the design specifications. As a condition for use of this report the above described "Plan Reviews" and "On-Site Construction Reviews" are to be performed. (If this office is not accorded the privilege of making the recommendations).			
ering with gravel or forated pipes before	this report the above describe be performed. (If this offic				
all work. cations of the City of	the conditions of a property natural processes or to the y changes in applicable or appr	his report are valid as of the pres can occur with the passage of works of man, on this or adjace ropriate standards occur, whether the conclusions of this report c of our control.	time, whether they be due to ent properties. In addition, if they result from legislation or		
ns and permits of the uthorities.				E E C E C E C	
ased in part upon the and site observations ariations beyond the ppear evident, it will varranty is made nor may not exist below litions differing from				ocean drive ma	
proposed project as report shall not be e conclusions of this					
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