



NEW HOME

16472 BARNSTABLE CIRCLE
HUNTINGTON BEACH, CA 92649

DANIEL HA

16472 BARNSTABLE CIRCLE
HUNTINGOTN BEACH, CA 92649
Tel: (949) 735 8451
email: drdanielha@yahoo.com

BUILDING DEPARTMENT SUBMITTAL:

REVISIONS:	
03/01/2025	PLANNING DEPARTMENT
05/13/2025	PLANNING DEPARTMENT
07/10/2025	PLANNING DEPARTMENT
07/29/2025	PLANNING DEPARTMENT
09/22/2025	PLANNING DEPARTMENT

PROJECT DIRECTOR:
JOB CAPTAIN:
SENIOR ASSOCIATE:
ASSOCIATES:
PROJECT NUMBER:
PROJECT CAD FILE:

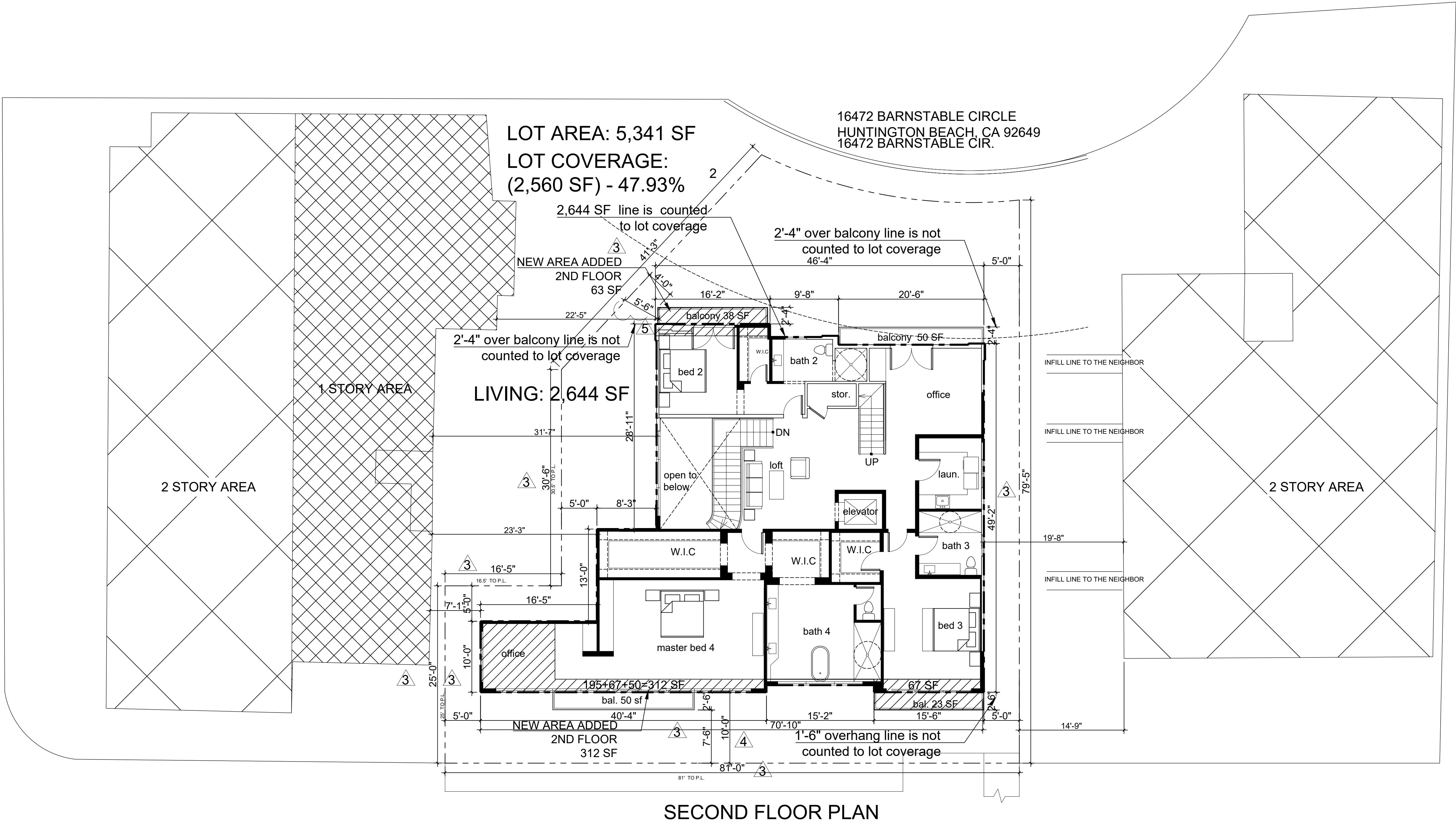
SHEET TITLE:
SITE PLAN
OVERLOOK
NEIGHBORHOOD

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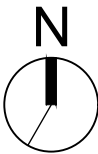
SHEET NUMBER:

A0.4

PLOT REFERENCE DATE: 01/28/2025



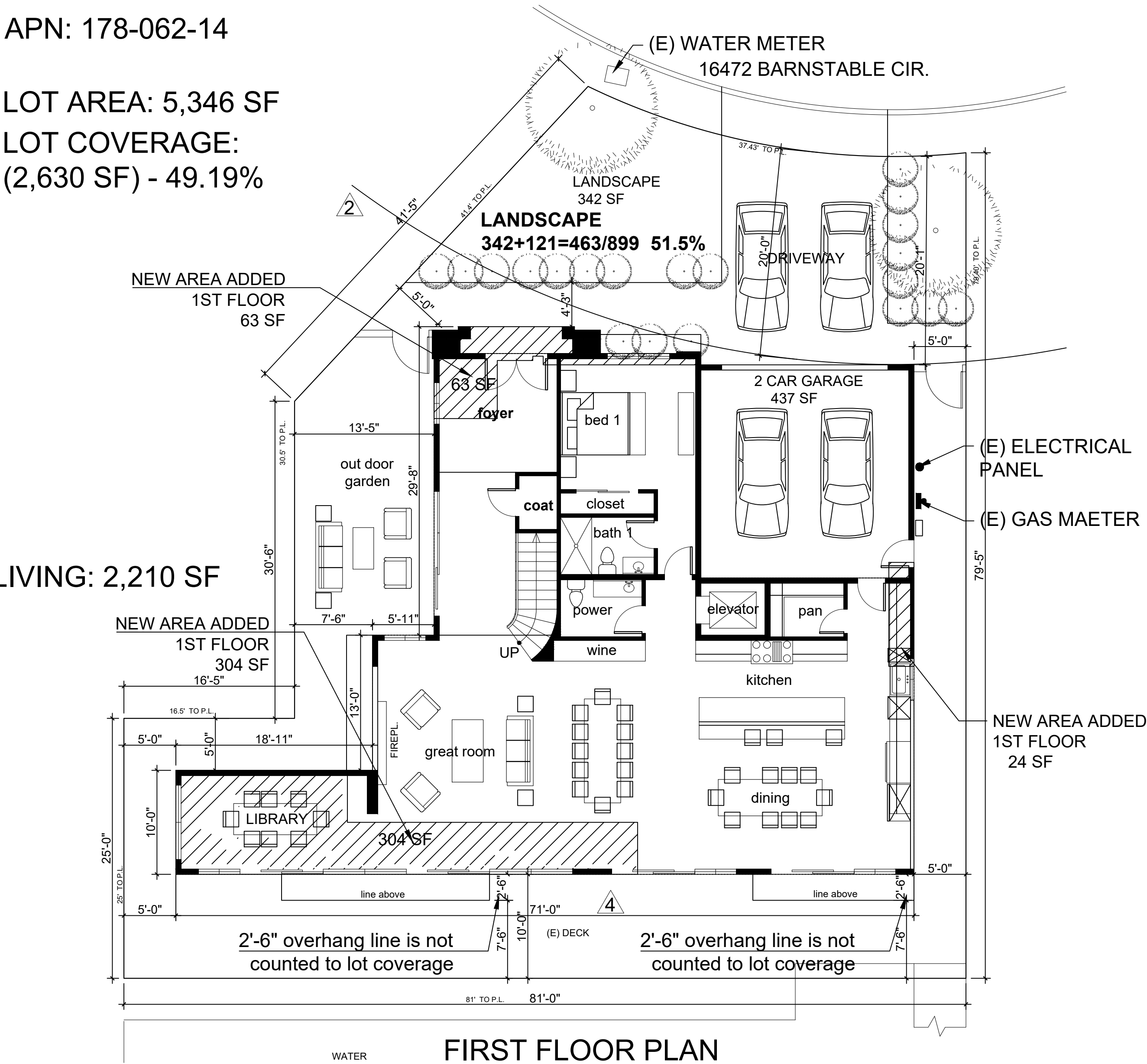
SITE PLAN OVERLOOK NEIGHBORHOOD
SCALE: 1/8" = 1' - 0"



APN: 178-062-14

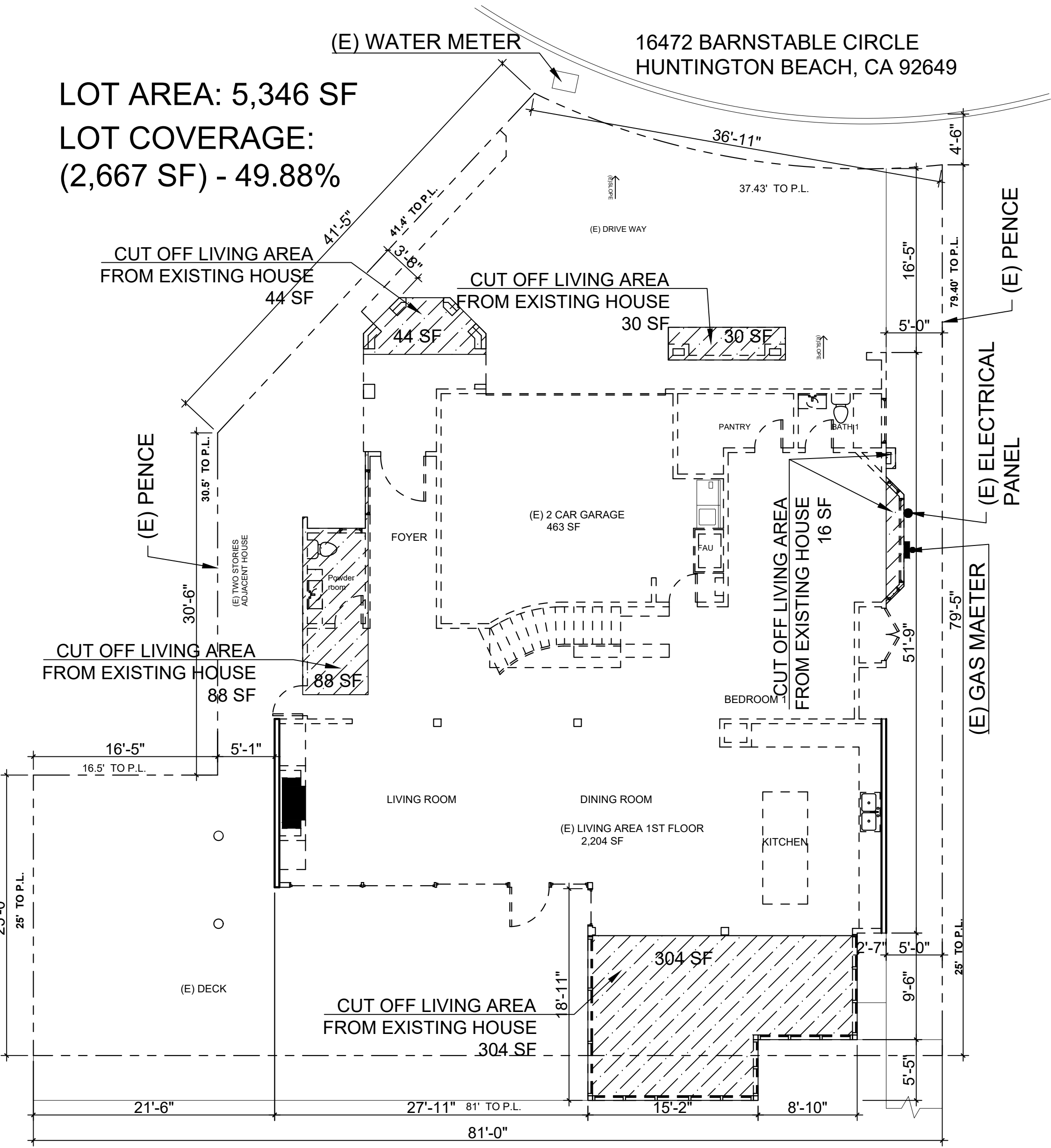
LOT AREA: 5,346 SF
LOT COVERAGE:
(2,630 SF) - 49.19%

LIVING: 2,210 SF



PROPOSED 1ST FLOOR PLAN
SCALE: 1/8" = 1' - 0"

LOT AREA: 5,346 SF
LOT COVERAGE:
(2,667 SF) - 49.88%



EXISTING 1ST FLOOR PLAN AND DEMO
SCALE: 1/8" = 1' - 0"

[Signature]

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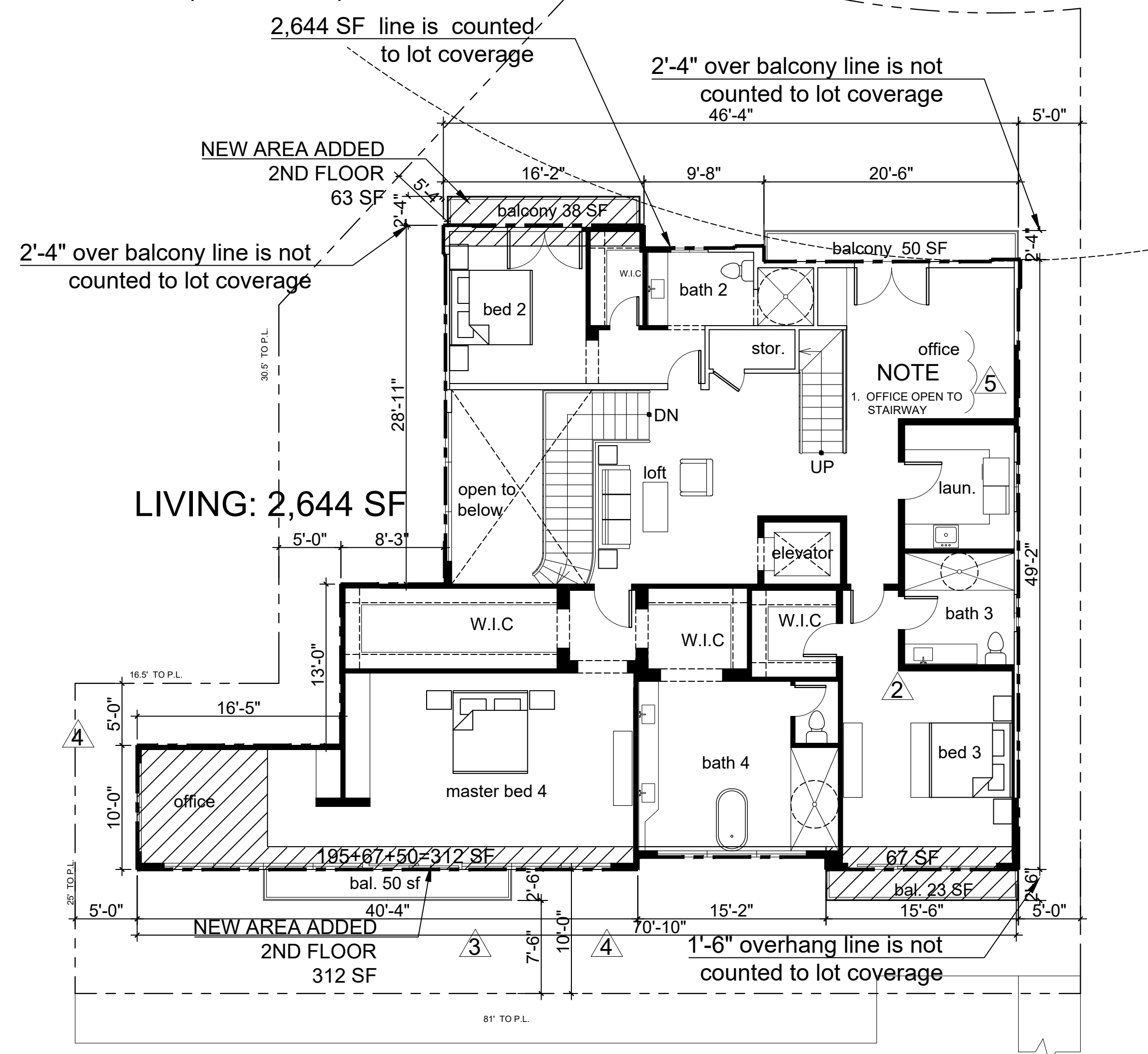
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PROPOSED 1ST
FLOOR PLAN
(E) 1ST FLOOR PLAN
AND DEMO
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PLOT REFERENCE DATE: 01/28/2025

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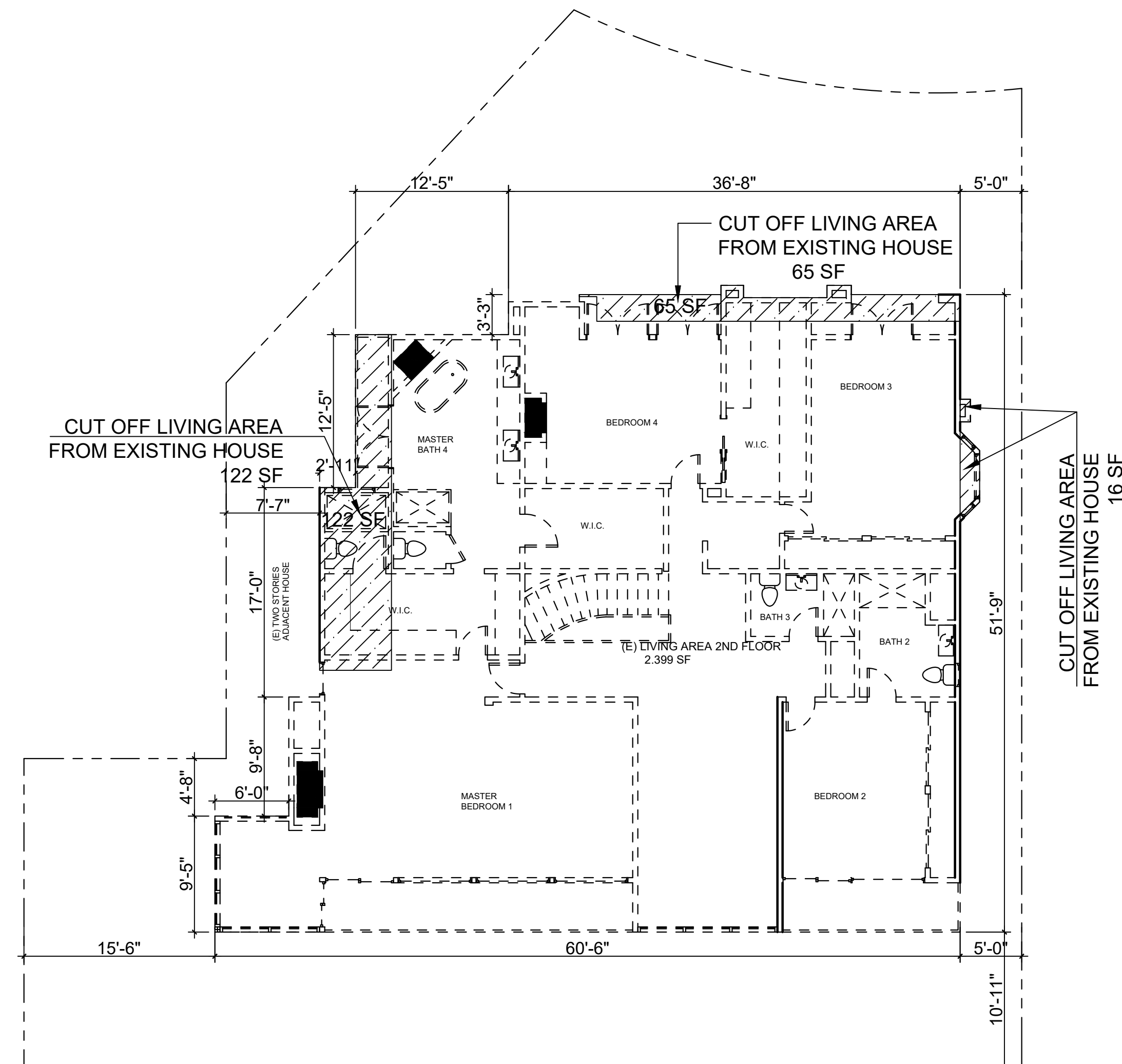
LEGEND	
(E) WALL TO BE REMAINED	(E) DOOR TO BE REMAINED
NEW WALL, PAINT TO MATCH WITH (E)	(N) DOOR
(E) WALL TO BE REMOVED	DOOR TO BE REMOVE
DEMO WINDOW	
(E) WINDOW	
(N) WINDOW	
NEW AREA ADDED	
PLUMBING WALL 2x6 WOOD STUD @ 16" OC. U.D.O.	

LOT AREA: 5,341 SF
LOT COVERAGE:
(2,644 SF) - 49.50%



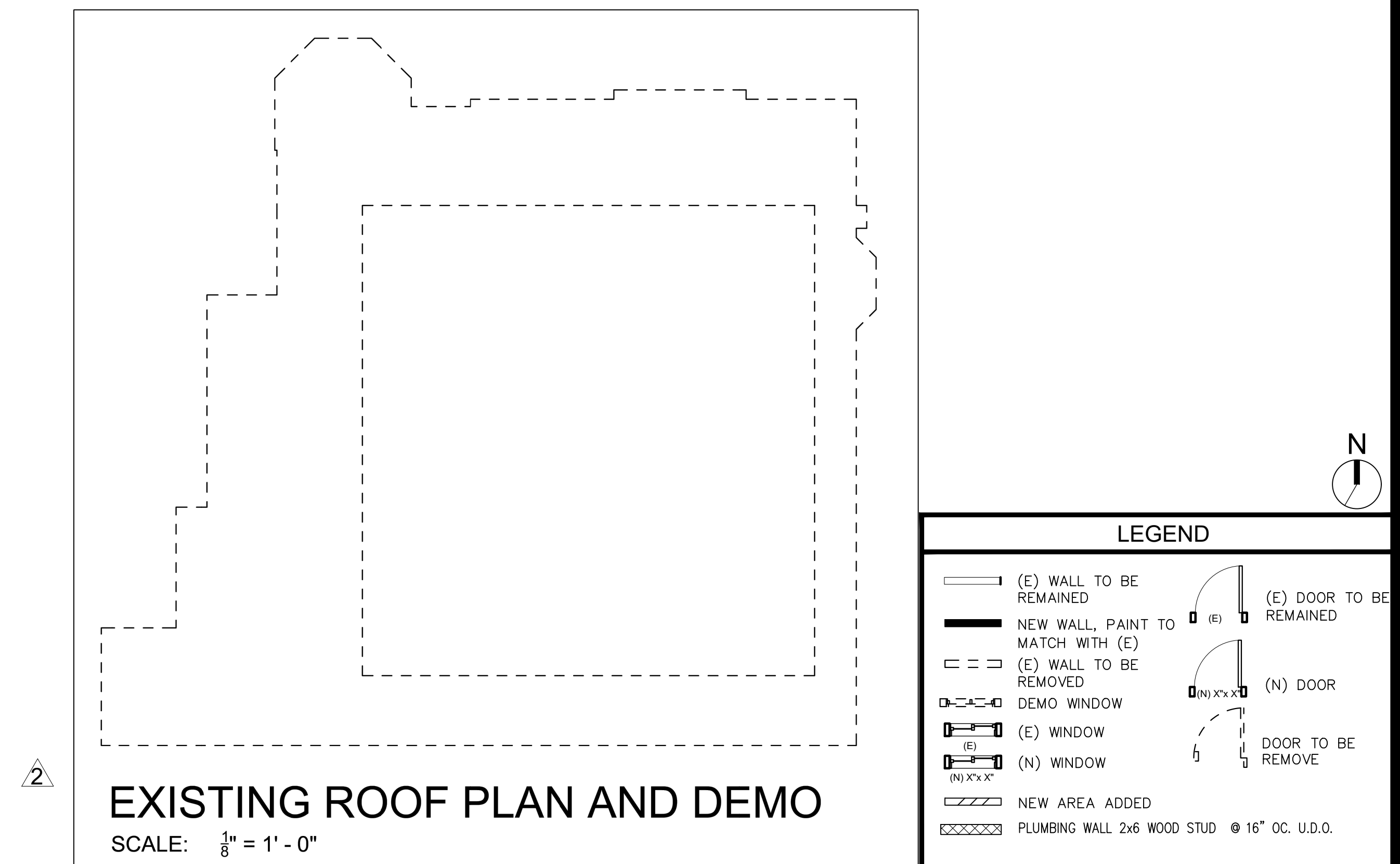
PROPOSED 2ND FLOOR PLAN

SCALE: $\frac{1}{8}" = 1' - 0"$



EXISTING 2ND FLOOR PLAN AND DEMO

SCALE: $\frac{1}{8}" = 1' - 0"$



anha
S T U D I O

386 Via Monterey
Westminster
CA 92683
Tel: (714) 200 4122
Email: aha@anha-studio.com

ANHA studio Email: aha@anha-studio.com

Handwritten signature: *Handwritten signature*

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PROPOSED 2ND
FLOOR PLAN,
(E) 2ND FLOOR PLAN
AND DEMO

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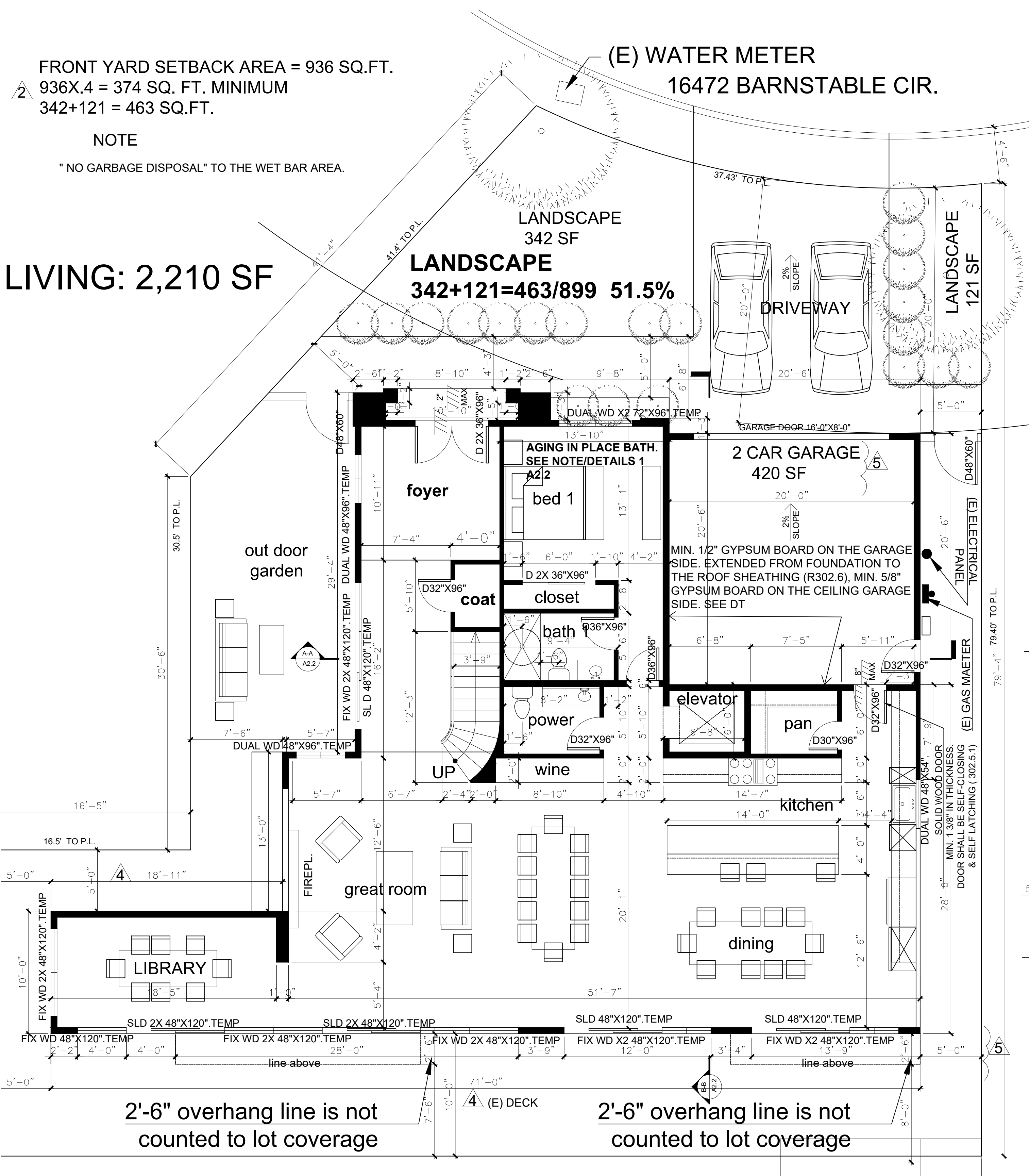
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FRONT YARD SETBACK AREA = 936 SQ.FT.
936X.4 = 374 SQ. FT. MINIMUM
342+121 = 463 SQ.FT.

NOTE
" NO GARBAGE DISPOSAL " TO THE WET BAR AREA.

LIVING: 2,210 SF

LANDSCAPE
342+121=463/899 51.5%



1ST FLOOR PLAN

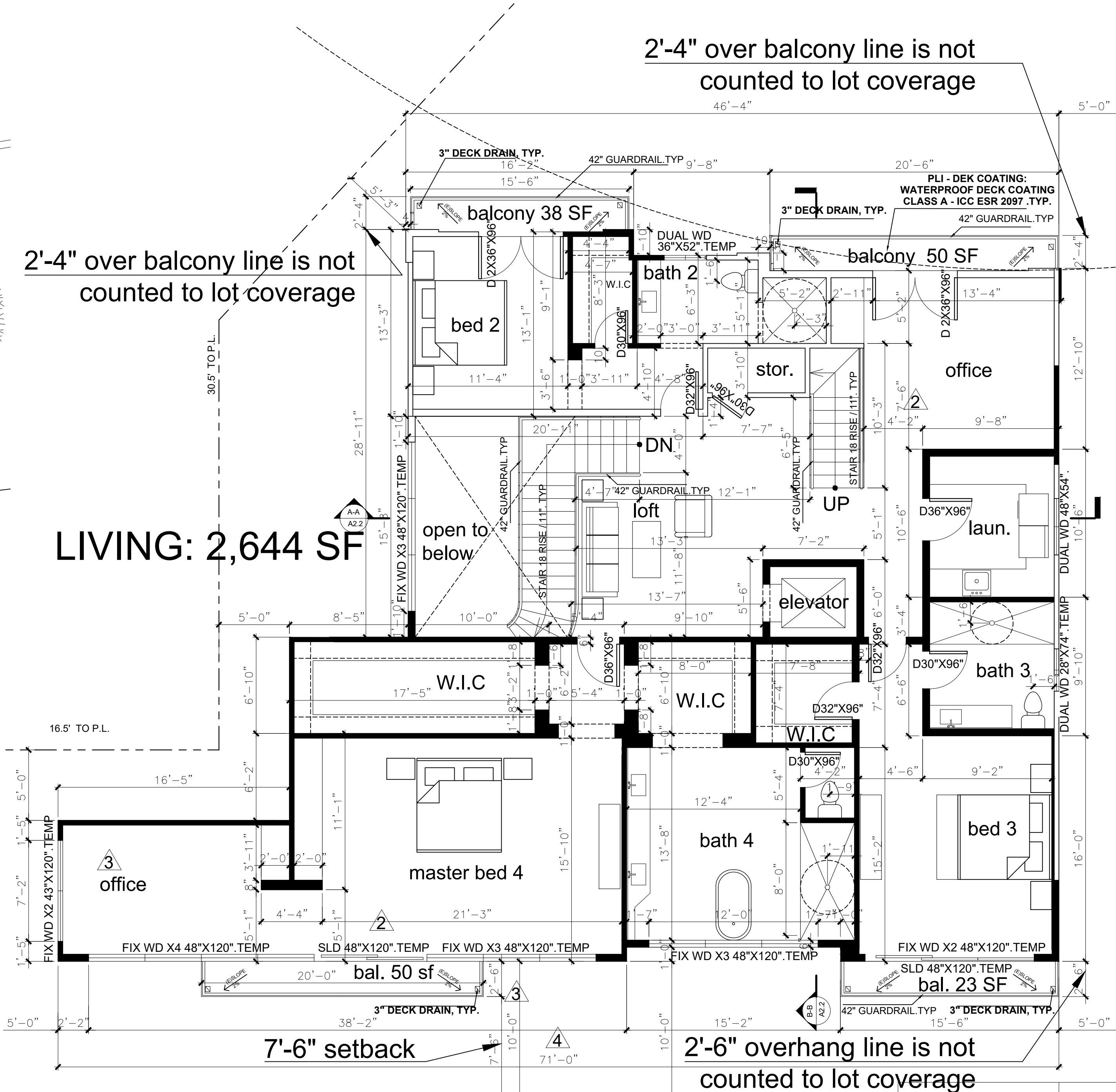
SCALE: 3/16" = 1' - 0"

NOTES:

- B, AGING-IN-PLACE REQUIREMENTS IN ACCORDANCE WITH CRC R327. ADDRESS THE FOLLOWING COMMENTS:
- SPECIFY THE REINFORCEMENT TO BE SOIL LUMBER AND NOT LESS THAN 2X8.
 - THE REINFORCEMENT SHALL BE LOCATED BETWEEN 32" AND 39 1/4" ABOVE THE FINISHED FLOOR.
 - SPECIFY THE WATER CLOSET REINFORCEMENT TO BE INSTALLED ON BOTH SIDE WALLS OF THE FIXTURE, OR ONE SIDE WALL AND THE BACK WALL.
 - WHERE THE WATER CLOSET IS NOT LOCATED ADJACENT TO THE SIDE WALL, GRAB BAR REINFORCEMENT FOR A GROUND-MOUNTED INSTALLATION IS ACCEPTABLE.
 - SPECIFY THE SHOWER REINFORCEMENT SHALL BE CONTINUOUS WHERE WALL FRAMING IS PROVIDED.
 - BATHTUB AND COMBINATION BATHTUB/SHOWER REINFORCEMENT SHALL BE CONTINUOUS ON EACH END OF THE BATHTUB AND THE BACK WALL. ADDITIONALLY, BACK WALL REINFORCEMENT FOR A LOWER GRAB BAR SHALL BE PROVIDED WITH THE BOTTOM EDGE LOCATED NO MORE THAN 6" ABOVE THE BATHTUB RIM.

2'-4" over balcony line is not counted to lot coverage

LIVING: 2,644 SF



2ND FLOOR PLAN

SCALE: 3/16" = 1' - 0"

DOOR SCHEDULE

DOOR TYPE	Width	Height	Count	U Factor
GARAGE DOOR 16080	16' - 0"	8' - 0"	1	0.29
SLD 48"x120".TEMP	4' - 0"	10' - 0"	9	0.29
D36"x96"	3' - 0"	8' - 0"	10	0.29
D32"x96"	2' - 8"	8' - 0"	8	0.29
D30"x96"	2' - 6"	8' - 0"	4	0.29

WINDOW SCHEDULE

WINDOW TYPE	Width	Height	Count	U Factor	SHGC
FWD48"x120".TEMP	4' - 0"	10' - 0"	30	0.29	0.21
DUALWD 72"x96".TEMP	6' - 0"	8' - 0"	5	0.29	0.21
DUALWD 48"x96". TEMP	4' - 0"	8' - 0"	2	0.29	0.21
DUALWD 48"x54". TEMP	4' - 0"	4' - 6"	1	0.29	0.21
DUAL WD 36"x52". TEMP	3' - 0"	4' - 4"	1	0.29	0.21
DUAL WD 28"x52". TEMP	2' - 4"	6' - 2"	1	0.29	0.21

LEGEND

(E) WALL TO BE REMAINED	(E) DOOR TO BE REMAINED
NEW WALL, PAINT TO MATCH WITH (E)	(N) DOOR
(E) WALL TO BE REMOVED	DOOR TO BE REMOVE
DEMO WINDOW	
(E) WINDOW	
(N) WINDOW	
NEW AREA ADDED	
PLUMBING WALL 2x6 WOOD STUD @ 16" OC. U.D.O.	

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1ST FLOOR PLAN AND
2ND FLOOR PLAN

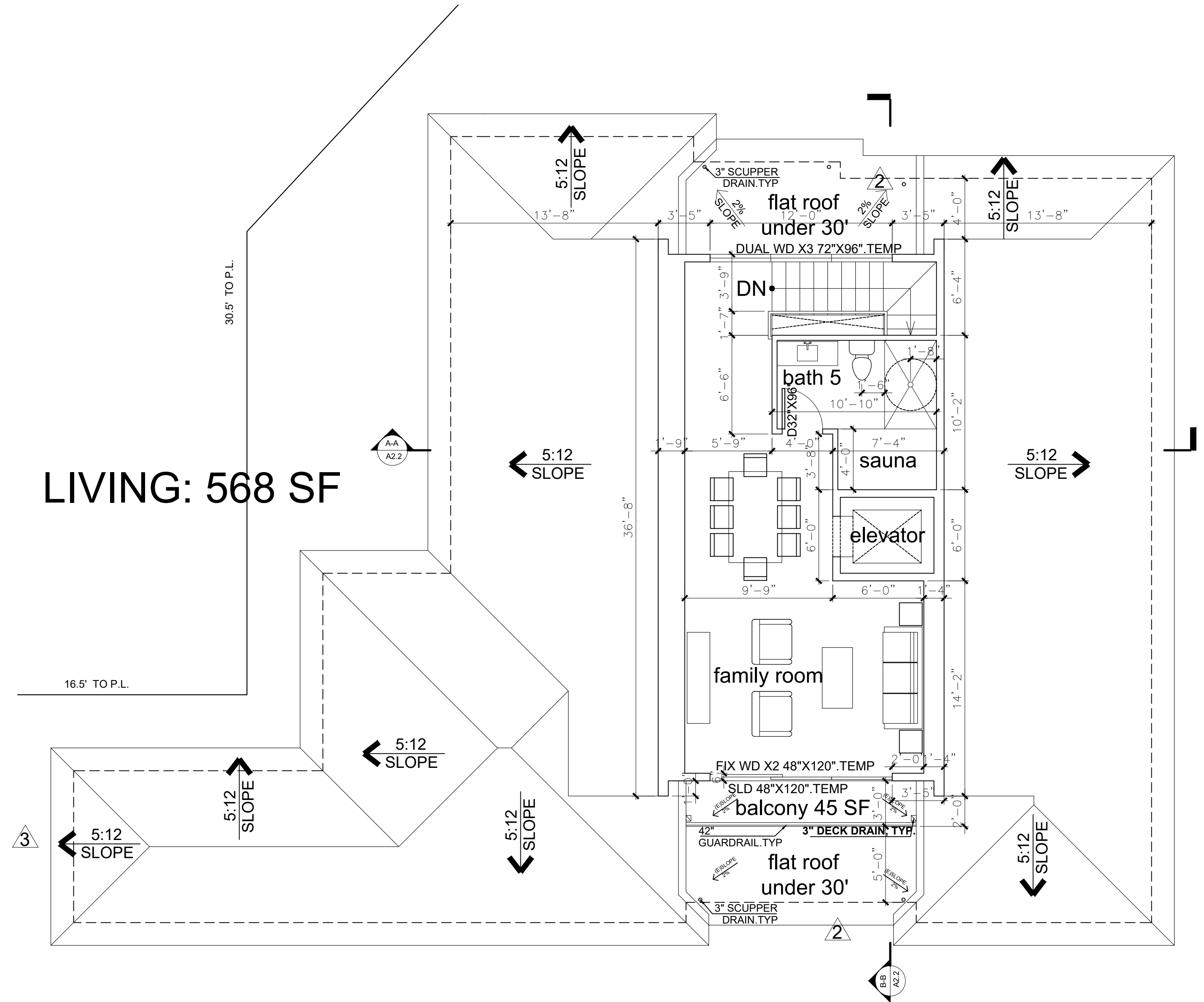
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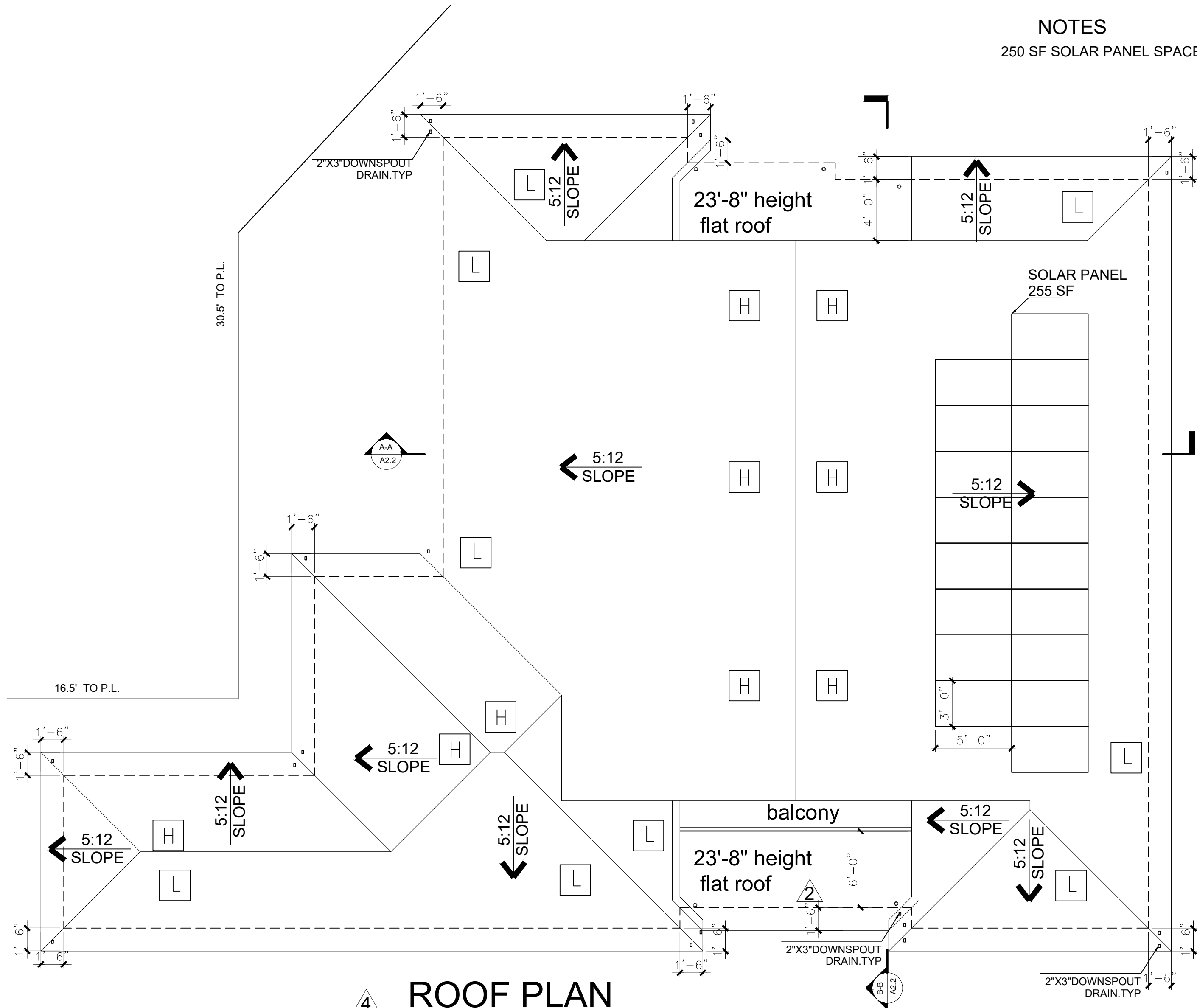
PLOT REFERENCE DATE: 01/28/2025

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3RD FLOOR PLAN

SCALE: 3/16" = 1' - 0"



ROOF PLAN

SCALE: 3/16" = 1' - 0"

DOOR SCHEDULE					
DOOR TYPE	Width	Height	Count	U Factor	
GARAGE DOOR 16080	16' - 0"	8' - 0"	1	0.29	
SLD 48"X120".TEMP	4' - 0"	10' - 0"	9	0.29	
D36"X96"	3' - 0"	8' - 0"	10	0.29	
D32"X96"	2' - 8"	8' - 0"	8	0.29	
D30"X96"	2' - 6"	8' - 0"	4	0.29	
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DUAL WD 28"x52". TEMP	2' - 4"	6' - 2"	1	0.29	0.21

REQUIRED ATTIC VENTIVATION

ATTIC VENTILATION CACULATIONS PER C.R.C. R806.2 AS FOLLOWS:

(A) ATTIC AREA (SQUARE FEET)
(B) DIVIDE (A) BY 300 AND MUTPLY BY 144 TO CACULATE THE TOTAL REQUIRED NET FREE VENTING AREA IN SQUARE INCHES. DIVIDE TOTAL BY 2 TO GET THE NET FREE VENTING REQUIRED BOTH HIGH AND LOW. (MUST PROVIDE VAPOR RETARDER HAVING TRANSMISSION RATE NOT EXCEEDING 1 PERM INSTALLED ON WARM SIDE OF INSULATION.)
* DIVIDE (A) BY 150 AND MUTIPLY BY 144 CACULATE THE TOTAL REQUIRED NET FREE VENTING AREA IN SQUARE INCHES. DIVIDE TOTAL BY 2 TO GET THE NET FREE VENTING REQUIRED BOTH HIGH AND LOW.

(C) TOTAL SQUARE INCHES OF NET FREE VENTILATING AREA PROVIDED BY GABLE END ATTIC VENTS. (SEE ATTIC VENT CHART FREE AREA FOR EACH VENT)

▨ = GABLE END VENT = AREA / 150 VENT

(D) TOTAL SQUARE INCHES OF NET FREE VENTILATION AREA PROVIDED BY UNDER AIR VENTS. (95 SQ. IN. OF FREE AREA MIN. EACH VENT)

H = HIGH VENT L = LOW VENT *

(E) TOTAL SQUARE INCHES OF NET FREE VENTILATING AREA PROVIDED BY UNDER EAVE VENT BLOCKS. (12 SQ. IN. OF FREE AREA MIN. EA.)

□ = VENT BLOCK AT TRUSS BAY
□ = VENT BLOCK AT RAFTER BAY

(F) TOTAL SQUARE INCHES OF NET FREE VENTLATING AREA PROVED

□ PROVIDE ACCESS AND VENTILATIOAN FROM CALIFORNIA FRAMED AREAS TO ADJACENT ATTIC SPACES. REFER TO STRUCTURAL DRAWINGS FOR SHEATHING PENETRATIONS.

NOTE: FOR ADDITIONAL GENERAL ATTIC / ROOF AIR VENTING REQUIREMENTS REFER TO GENERAL NOTE SHEETS.

ATTIC VENTILATION CALCULATIONS					
(REFER TO "REQUIRED ATTIC VENTILATION" NOTES FOR ADDITIONAL INFORMATION)					
UNIT 1	A ATTIC AREA (SQ.FT.)	B REQ'D VENTING (SQ.IN.)	C GABLE END VENTS (SQ.IN.)	D O'HAGIN ROOF VENTS (SQ.IN.)	E EAVE VENTS (SQ.IN.)
AREA - 1	3,731	(3,731 / 300) x 144 = 1,790	N/A	(9)97.5= 895 HIGH (9)97.5= 895 LOW	N/A

- ATTIC F.A.U. NOTES**
- FURNACE SHALL BE LISTED FOR INSTALLATION IN ATTIC OR IN A FURRED SPACE.
 - FURNACE SHALL BE LISTED FOR USE ON COMBUSTIBLE FLOORING.
 - ATTIC OPENING AND PASSAGEWAY SHALL BE LARGE ENOUGH FOR REMOVAL OF FURNACE.
 - PROVIDE MINIMUM 24" WIDE SOLID CONTINUOUS FLOOR FOR PASSAGEWAY.
 - FURNACE SHALL BE NOT MORE THAN 20 FT. FROM ATTIC OPENING.
 - PROVIDE UNOBSTRUCTED LEVEL WORK SPACE OF 30"x30" MINIMUM IN FRONT OF EQUIPMENT.
 - VENT THROUGH ROOF A MIN. OF 5 FT. ABOVE THE HIGHEST VENT COLLAR WHICH IT SERVES.
 - FURNACE INSTALLATION SHALL MEET ALL LISTED CLEARANCES.
 - RAISE PLATFORM AND PASSAGEWAY FLOOR SUFFICIENTLY SO INSULATION BENEATH WILL NOT BE COMPRESSED.

- GENERAL SECTION NOTES**
- REFER TO STRUCTURAL ENGINEERS DRAWINGS, DETAILS AND NOTES FOR INFORMATION NOT SHOWN HERE.
 - REFER TO TRUSS DRAWINGS FOR INFORMATION NOT SHOWN HERE.
 - SECTIONS REFLECT THE 'A' ELEVATION (UNLESS NOTED OTHERWISE).
 - ROOF SLOPE(S) AND OVERHANG (S) MAY VARY PER ELEVATION. REFER TO THE ROOF NOTES AND ROOF PLANS AT EACH ELEVATION FOR MORE INFORMATION.
 - TYPICAL DIMENSIONS FOR A HEEL TRUSS. (DIMENSION FROM TOP PLATE TO THE TOP OF TOP CHORD).

MATERIAL NOTE

ROOF MATERIAL:
TORCH DOWN RUBBER ROOFING BITUMEN ROOF
COVERING ICC-ES. ESR 3672

LEGEND	
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— NEW WALL, PAINT TO MATCH WITH (E)	(E) DOOR TO BE REMAINED
— (E) WALL TO BE REMOVED	(N) DOOR
— DEMO WINDOW	(N) DOOR
(E) WINDOW	DOOR TO BE REMOVE
(N) WINDOW	
— NEW AREA ADDED	
— PLUMBING WALL 2x6 WOOD STUD @ 16" OC. U.D.O.	

NOTES
250 SF SOLAR PANEL SPACE

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3RD FLOOR PLAN
ROOF PLAN

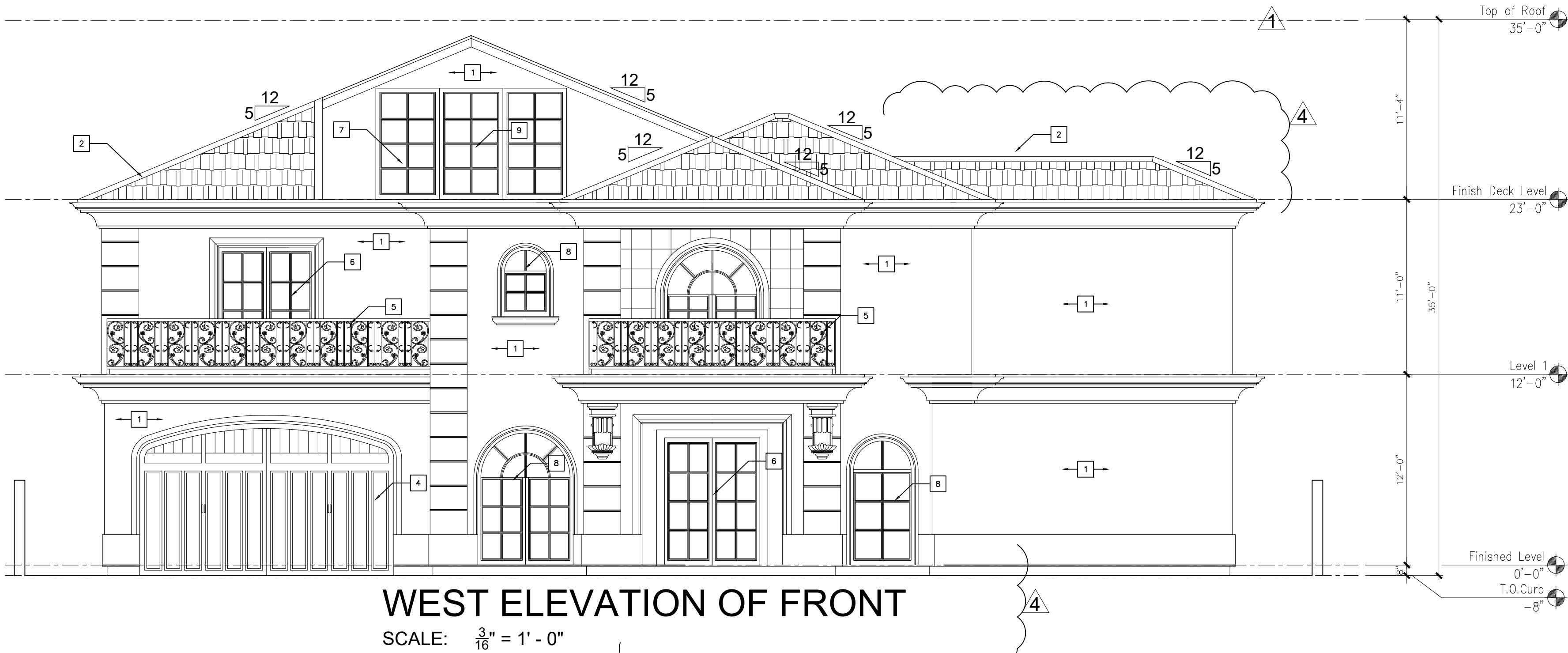
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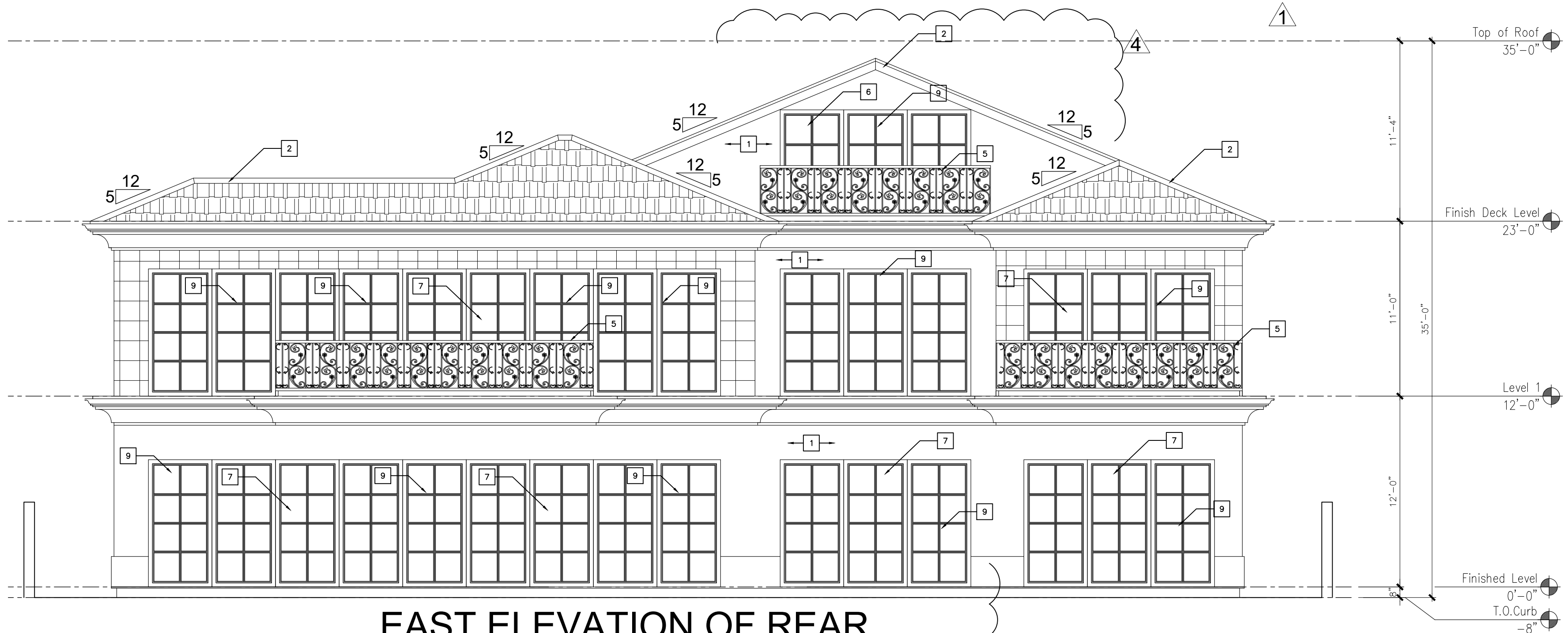
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WEST ELEVATION OF FRONT

SCALE: $\frac{3}{16}'' = 1' - 0''$



EAST ELEVATION OF REAR

SCALE: $\frac{3}{16}'' = 1' - 0''$

DRYER EXHAUST DUCT NOTE

A EXHAUST DUCT TERMINATION IS AS FOLLOWS PER CMC 502.2

- 3 FEET FROM A PROPERTY LINE
- 10 FEET FROM A FORCED AIR INLET, AND
- 3 FEET FROM OPENINGS INTO THE BUILDING

B EXHAUST DUCT SHALL NOT DISCHARGE ONTO A PUBLIC WAY. CMC 502.2

C UNLESS OTHERWISE PERMITTED OR REQUIRED BY THE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPROVED BY THE CITY, DOMESTIC DRYER MOISTURE EXHAUST DUST SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF FOURTEEN FEET, INCLUDING TWO 90-DEGREE ELBOWS. TWO FEET SHALL BE DEDUCTED FOR EACH 90-DEGREE ELBOW IN EXCESS OF TWO. CMC 502.4.2.

DRYER GAS LINE NOTE

- 1/2" GAS PIPE, 1/2" INLET GAS VALVE, W/ 3/8" FLARE OUTPUT
- 100 SQIN LOUVER AT LAUNDRY'S DOOR FOR AIR COMBUSTION

NOTE

P1. PER CALIFORNIA CIVIL CODE ARTICLE 1101.4 AND CALGREEN SECTION 301.1, ALL BUILDING ALTERATIONS TO A SINGLE-FAMILY HOME, EXISTING PLUMBING FIXTURES IN THE ENTIRE HOUSE THAT DO NOT MEET COMPLIANT FLOW RATES NEED TO BE UPGRADED. WATER CLOSETS WITH A FLOW RATE IN EXCESS OF 1.6 GPF WILL NEED TO BE REPLACED WITH WATER CLOSETS WITH A MAXIMUM FLOW RATE OF 1.28 GPF. SHOWERS WITH A FLOW RATE IN EXCESS OF 2.5 GPM WILL NEED TO BE REPLACED WITH SHOWERHEADS WITH A MAXIMUM FLOW RATE OF 1.8 GPM. LAVATORY WITH A FLOW RATE IN EXCESS OF 2.2 GPM WILL NEED TO BE REPLACED WITH LAVATORY WITH A MAXIMUM FLOW RATE OF 1.2 GPM / 1.8 GPM FOR KITCHEN FAUCETS.)

P4. WATER-CONSERVING PLUMBING FIXTURE FLOW RATES:

- WATER CLOSET TO BE 1.28 GALLONS PER FLUSH MAXIMUM OR DUAL FLUSH PER CPC 411.2
- KITCHEN FAUCET TO BE 1.8 GALLONS PER MINUTE, MAXIMUM, PER CPC 420.2.1 & 420.2.2
- RESIDENTIAL LAVATORY FAUCET TO BE 1.2 GALLONS PER MINUTE, MAXIMUM, CPC 407.2.2
- SHOWERHEADS TO BE 1.8 GALLONS PER MINUTE, MAXIMUM, PER CPC 406.2

EXTERIOR FINISHES

- STUCCO, LIGHT SAND FINISH
- STANDING SEAM METAL ROOF
- VINYL GLAZING WINDOWS
- CLOPAY CLASSIC STEEL GARAGE DOOR
- METAL RAILINGS
- EXTERIOR WOOD DOOR
- SLIDING DOORS
- SLIDING WINDOW
- FIX WINDOW

ELEVATION/ROOF NOTES

- ESTATE EAGLE ROOFING TILE
- 2X6 BARGE, SEE DETAIL
- X EXPOSED RAFTER TAILS WITH SHAPED ENDS, SEE DETAIL. ALL RAFTER TAIL TO BE EQUALLY SPACED, FRAMER TO COORDINATE WITH TRUSS ENGINEER
- EXTERIOR PLASTER OVER PAPER BACKED WITH WIRE MESH.
- EXTERIOR PLASTER SOFFIT OVER EXPANDED METAL LATH.
- COAT STUCCO SYSTEM
- EXTERIOR SIDING, SEE EXTERIOR FINISHES NOTES.
- EXTERIOR GRADE PLYWOOD SOFFIT.
- TONGUE AND GROOVE SOFFIT
- SPACED 1 X 3 VERTICAL HARDIE TRIM AT 24" O.C. OVER EXTERIOR GRADE PLYWOOD OR M.D.D.O. BOARD.
- EXPOSED HARDIE PLYWOOD OR M.D.O. BOARD.
- EXTERIOR GRADE PLYWOOD GRAIN FINISH.
- HIGH DENSITY FOAM TRIM, SEE ELEV. OR DETAIL FOR ACTUAL SIZE
- HIGH DENSITY FOAM WITH, SEE ELEVATION OR DETAIL FOR ACTUAL SIZE
- EXPOSED HARDIE TRIM, TREE ELEVATION OR DETAIL FOR ACTUAL SIZE.
- BUILT-UP CURVED PLYWOOD TRIM OR M.D.O. BOARD.
- FIXED SHUTTERS, SEE ELEVATION FOR SIZE..
- POTSHELF, SEE DETAIL
- PROVIDE G.I. FLASHING AT ALL EXPOSED WOOD TRIM
- CONTINUOUS G.I. EXTERIOR PLASTER SCREED, SEE DETAIL.
- G.I. FLASHING ROOF TO WALL.
- G.I. FLASHING AND SADDLE / CRICKET.
- APPROVED TERMINATION CAP WITH SPARK ARRESTER FROM FIRE-PLACE MANUFACTURER.
- LINE OF INTERIOR CEILING OR INTERIOR WALL
- THIN-SET MASONRY VENEER.
- LIGHTED ADDRESS SIGN.
- SHAPED FOAM CORBEL, SEE DETAIL.
- SHARPE WOOD CORBEL, SEE DETAIL.
- WOOD POST(S), SEE PLAN FOR SIZE.
- EXPOSED WOOD BEAM
- MANUFACTURED COLUMN
- PRE-CAST CONCRETE COMPONENT / TRIM, SEE DETAIL.
- DECORATED
- NEVEL POST FALSE TILE VENTS, SEE ELEVATION FOR LOCATION.
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- REPEAT DETAIL AT OPPOSITE SIDE OF OPENING.
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- (A) ATTIC AREA (SQUARE FEET)
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- * DIVIDE (A) BY 150 AND MULTIPLY BY 144 CALCULATE THE TOTAL REQUIRED NET FREE VENTING AREA IN SQUARE INCHES. DIVIDE TOTAL BY 2 TO GET THE NET FREE VENTING REQUIRED BOTH HIGH AND LOW.
- (C) TOTAL SQUARE INCHES OF NET FREE VENTILATING AREA PROVIDED BY GABLE END ATTIC VENTS. (SEE ATTIC VENT CHART FREE AREA FOR EACH VENT)
- ▤ = GABLE END VENT
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- ▣ = HIGH END ▢ = HIGH END
- (E) TOTAL SQUARE INCHES OF NET FREE VENTILATING AREA PROVIDED BY UNDER EAVE VENT BLOCKS. (12 SQ. IN. OF FREE AREA MIN. EA.)
- ▤▤▤ = VENT BLOCK AT TRUSS BAY
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- (F) TOTAL SQUARE INCHES OF NET FREE VENTILATING AREA PROVIDED ACCESS AND VENTILATION FROM CALIFORNIA FRAMED AREAS TO ADJACENT ATTIC SPACES. REFER TO STRUCTURAL DRAWINGS FOR SHEATHING PENETRATIONS.

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anha

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email: drdaniela@yahooc.com

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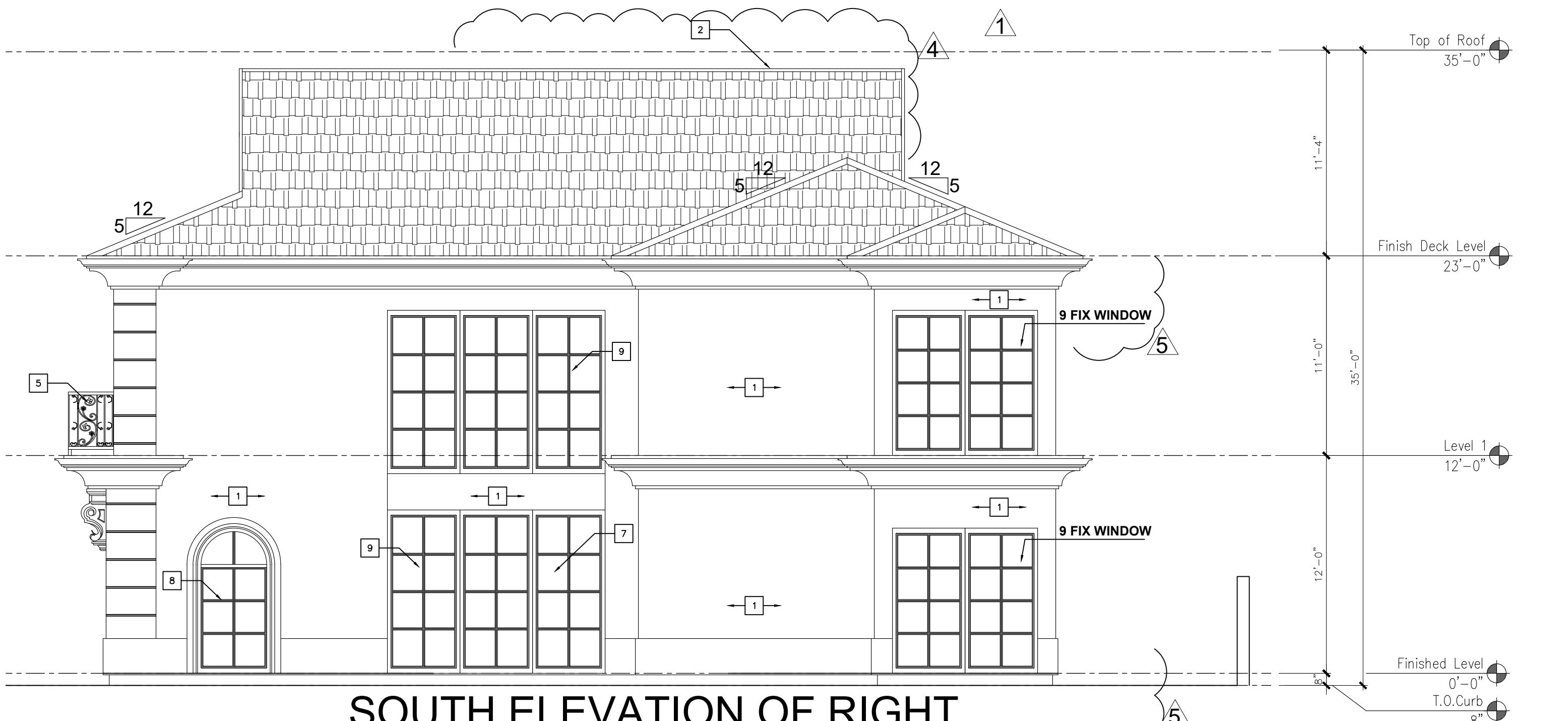
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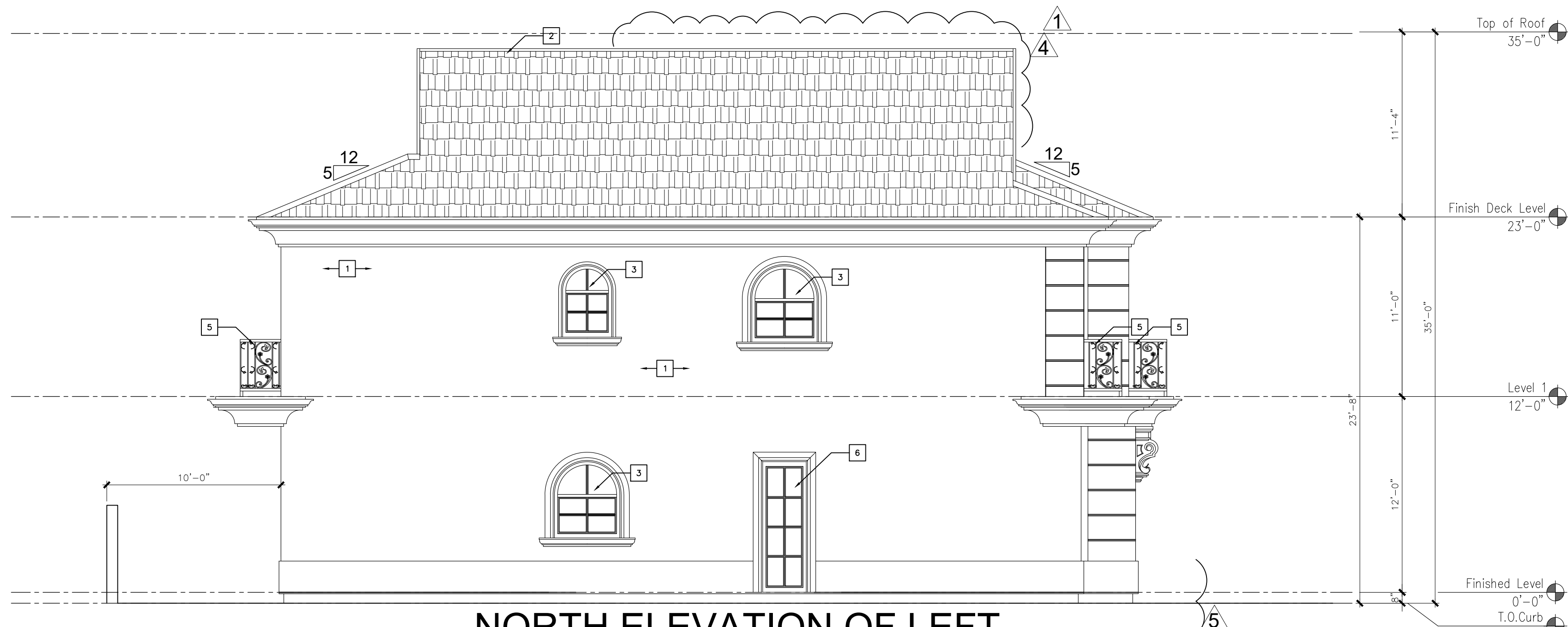
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SOUTH ELEVATION OF RIGHT

SCALE: $\frac{3}{16}$ " = 1' - 0"



NORTH ELEVATION OF LEFT

SCALE: $\frac{3}{16}$ " = 1' - 0"

DRYER EXHAUST DUCT NOTE

A EXHAUST DUCT TERMINATION IS AS FOLLOWS PER CMC 502.2

- 3 FEET FROM A PROPERTY LINE
- 10 FEET FROM A FORCED AIR INLET, AND
- 3 FEET FROM OPENINGS INTO THE BUILDING

B EXHAUST DUCT SHALL NOT DISCHARGE ONTO A PUBLIC WAY. CMC 502.2

C UNLESS OTHERWISE PERMITTED OR REQUIRED BY THE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPROVED BY THE CITY, DOMESTIC DRYER MOISTURE EXHAUST DUST SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF FOURTEEN FEET, INCLUDING TWO 90-DEGREE ELBOWS. TWO FEET SHALL BE DEDUCTED FOR EACH 90-DEGREE ELBOW IN EXCESS OF TWO. CMC 502.4.2.

DRYER GAS LINE NOTE

- 1/2" GAS PIPE, 1/2" INLET GAS VALVE, W/ 3/8" FLARE OUTPUT
- 100 SQIN LOUVER AT LAUNDRY'S DOOR FOR AIR COMBUSTION

NOTE

P1. PER CALIFORNIA CIVIL CODE ARTICLE 1101.4 AND CALGREEN SECTION 301.1, ALL BUILDING ALTERATIONS TO A SINGLE-FAMILY HOME, EXISTING PLUMBING FIXTURES IN THE ENTIRE HOUSE THAT DO NOT MEET COMPLIANT FLOW RATES NEED TO BE UPGRADED. WATER CLOSETS WITH A FLOW RATE IN EXCESS OF 1.6 GPF WILL NEED TO BE REPLACED WITH WATER CLOSETS WITH A MAXIMUM FLOW RATE OF 1.28 GPF. SHOWERS WITH A FLOW RATE IN EXCESS OF 2.5 GPM WILL NEED TO BE REPLACED WITH SHOWERHEADS WITH A MAXIMUM FLOW RATE OF 1.8 GPM. LAVATORY WITH A FLOW RATE IN EXCESS OF 2.2 GPM WILL NEED TO BE REPLACED WITH LAVATORY WITH A MAXIMUM FLOW RATE OF 1.2 GPM (1.8 GPM FOR KITCHEN FAUCETS.)

P4. WATER-CONSERVING PLUMBING FIXTURE FLOW RATES:

- WATER CLOSET TO BE 1.28 GALLONS PER FLUSH MAXIMUM OR DUAL FLUSH PER CPC 411.2
- KITCHEN FAUCET TO BE 1.8 GALLONS PER MINUTE, MAXIMUM, PER CPC 420.2.1 & 420.2.2
- RESIDENTIAL LAVATORY FAUCET TO BE 1.2 GALLONS PER MINUTE, MAXIMUM, CPC 407.2.2
- SHOWERHEADS TO BE 1.8 GALLONS PER MINUTE, MAXIMUM, PER CPC 406.2

EXTERIOR FINISHES

- STUCCO, LIGHT SAND FINISH
- STANDING SEAM METAL ROOF
- VINYL GLAZING WINDOWS
- GLOPAY CLASSIC STEEL GARAGE DOOR
- METAL RAILINGS
- EXTERIOR WOOD DOOR
- SLIDING DOORS
- SLIDING WINDOW
- FIX WINDOW

ELEVATION/ROOF NOTES

- ESTATE EAGLE ROOFING TILE
- 2X6 BARGE, SEE DETAIL
- X EXPOSED RAFTER TAILS WITH SHAPED ENDS, SEE DETAIL. ALL RAFTER TAIL TO BE EQUALLY SPACED. FRAMER TO COORDINATE WITH TRUSS ENGINEER.
- EXTERIOR PLASTER OVER PAPER BACKED WITH WIRE MESH.
- EXTERIOR PLASTER SOFFIT OVER EXPANDED METAL LATH.
- COAT STUCCO SYSTEM
- EXTERIOR SIDING, SEE EXTERIOR FINISHES NOTES.
- EXTERIOR GRADE PLYWOOD SOFFIT.
- TONGUE AND GROOVE SOFFIT
- SPACED 1 X 3 VERTICAL HARDIE TRIM AT 24" O.C. OVER EXTERIOR GRADE PLYWOOD OR M.D.D.O. BOARD.
- EXPOSED HARDIE PLYWOOD OR M.D.O. BOARD.
- EXTERIOR GRADE PLYWOOD GRAIN FINISH.
- HIGH DENSITY FOAM TRIM, SEE ELEV. OR DETAIL FOR ACTUAL SIZE
- HIGH DENSITY FOAM WITH, SEE ELEVATION OR DETAIL FOR ACTUAL SIZE
- EXPOSED HARDIE TRIM, TREE ELEVATION OR DETAIL FOR ACTUAL SIZE.
- BUILT-UP CURVED PLYWOOD TRIM OR M.D.O. BOARD.
- FIXED SHUTTERS, SEE ELEVATION FOR SIZE..
- POTSHELF, SEE DETAIL
- PROVIDE G.I. FLASHING AT ALL EXPOSED WOOD TRIM
- CONTINUOUS G.I. EXTERIOR PLASTER SCREED, SEE DETAIL.
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ANHA studio Email: aha@anha-studio.com

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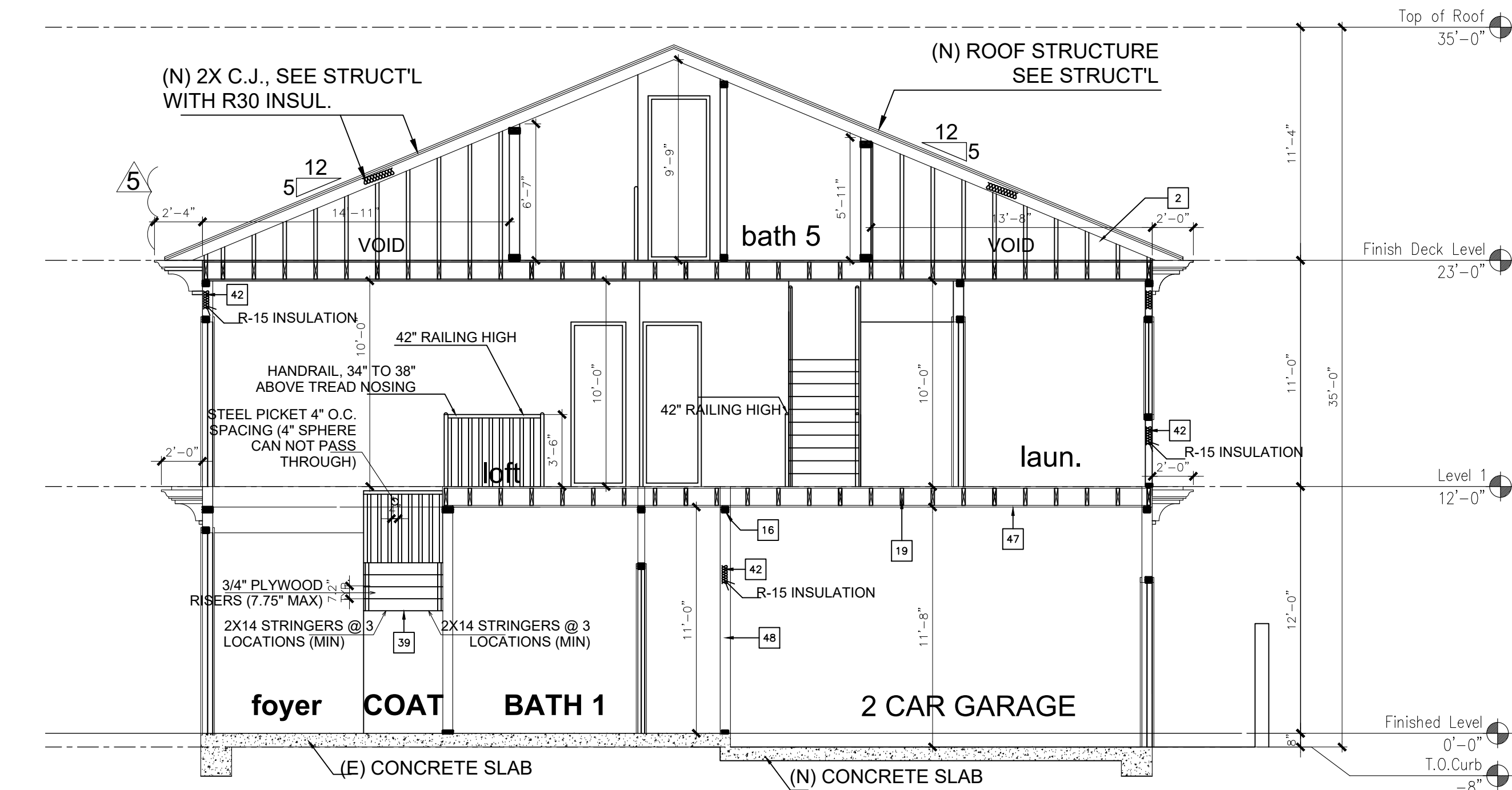
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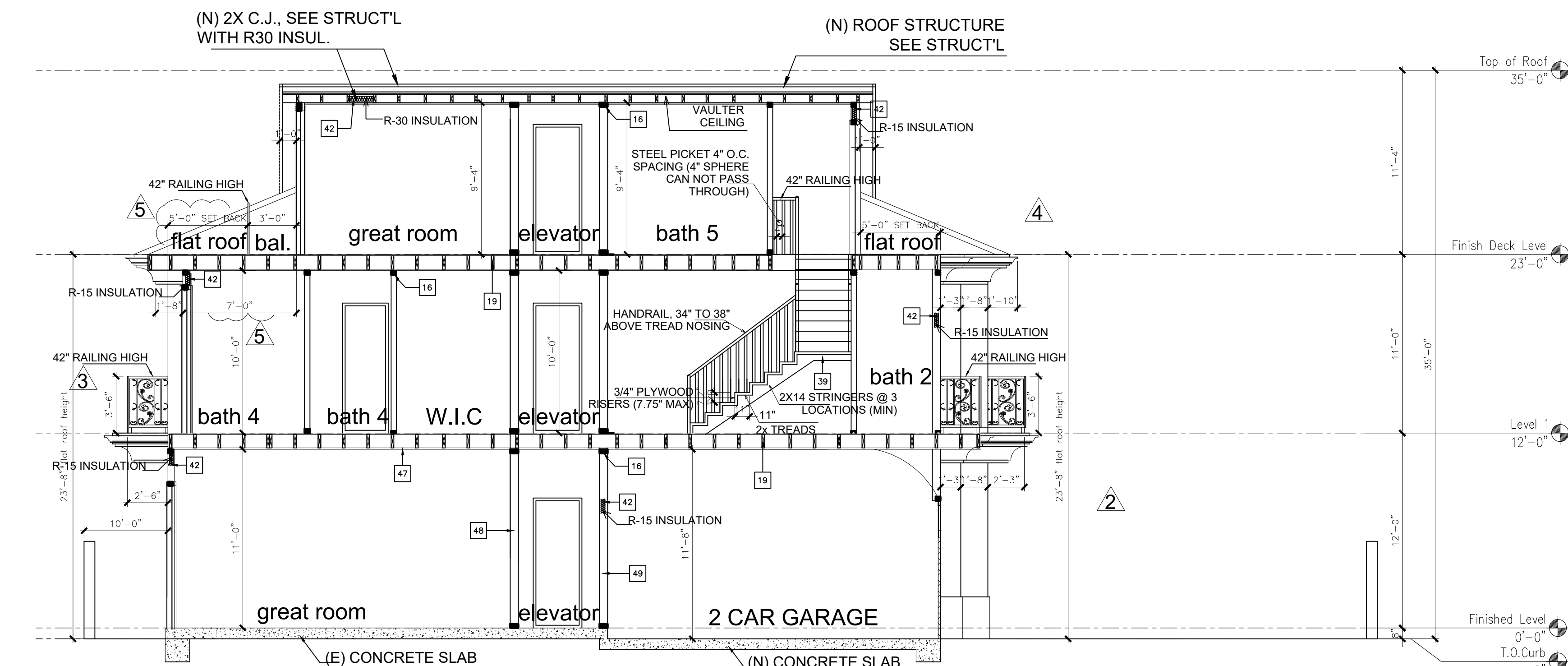
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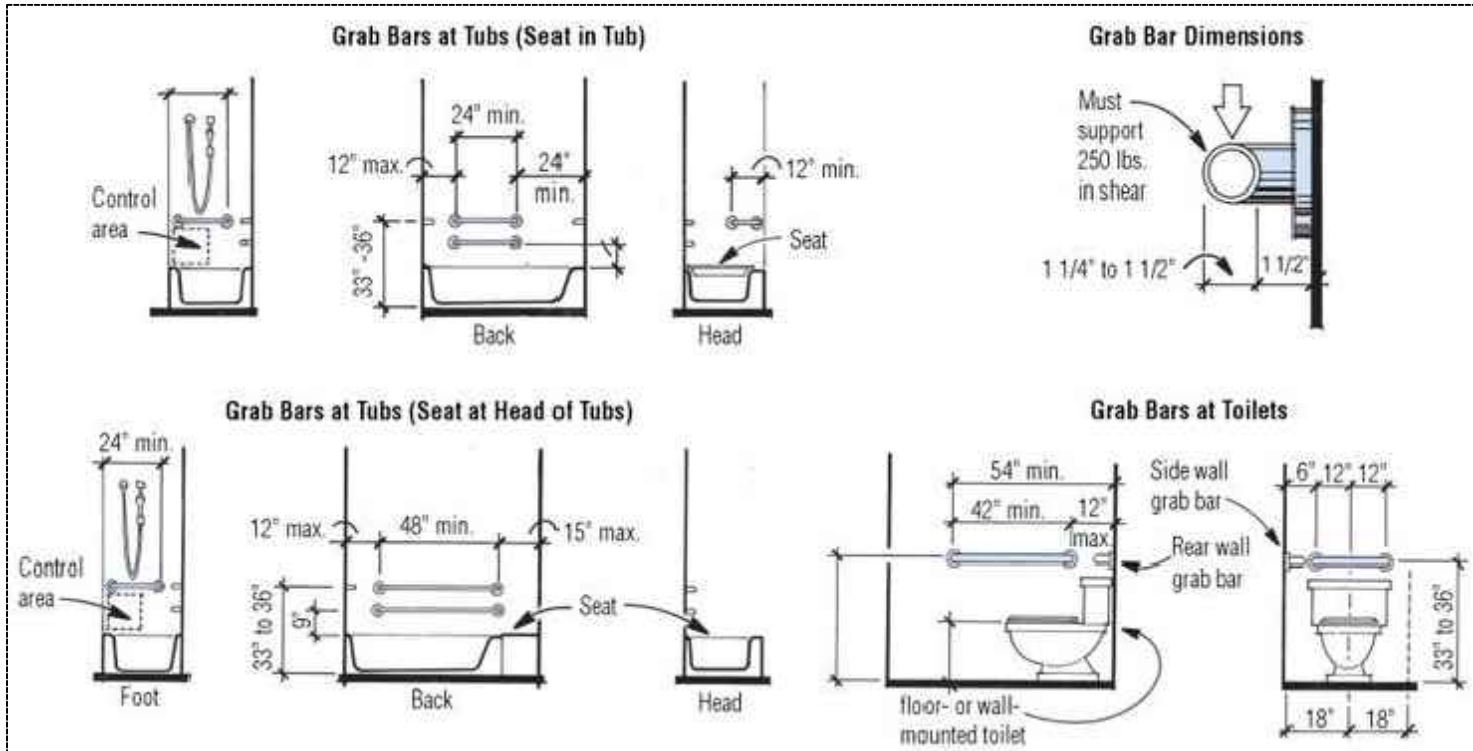
SECTION A-A

SCALE: $\frac{3}{16}'' = 1' - 0''$

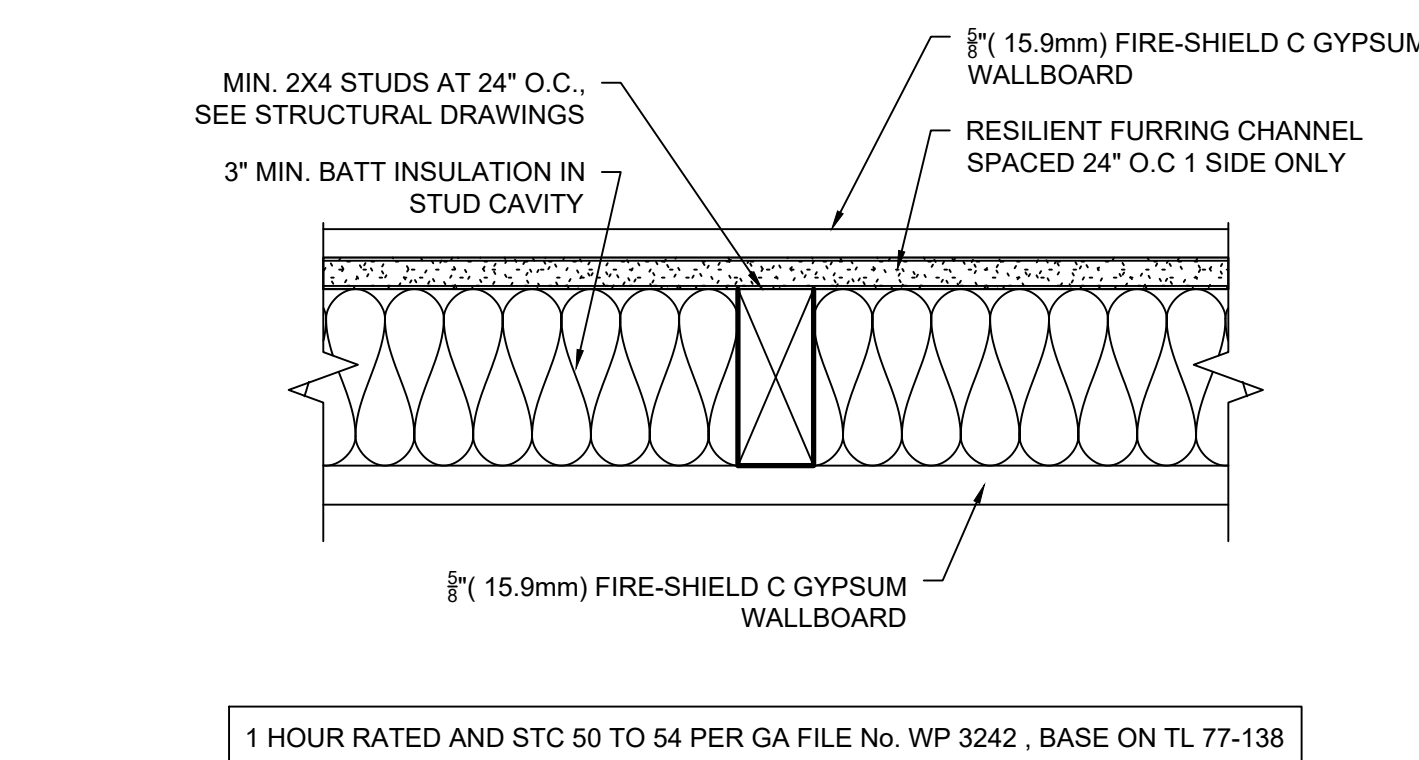


SECTION B-B

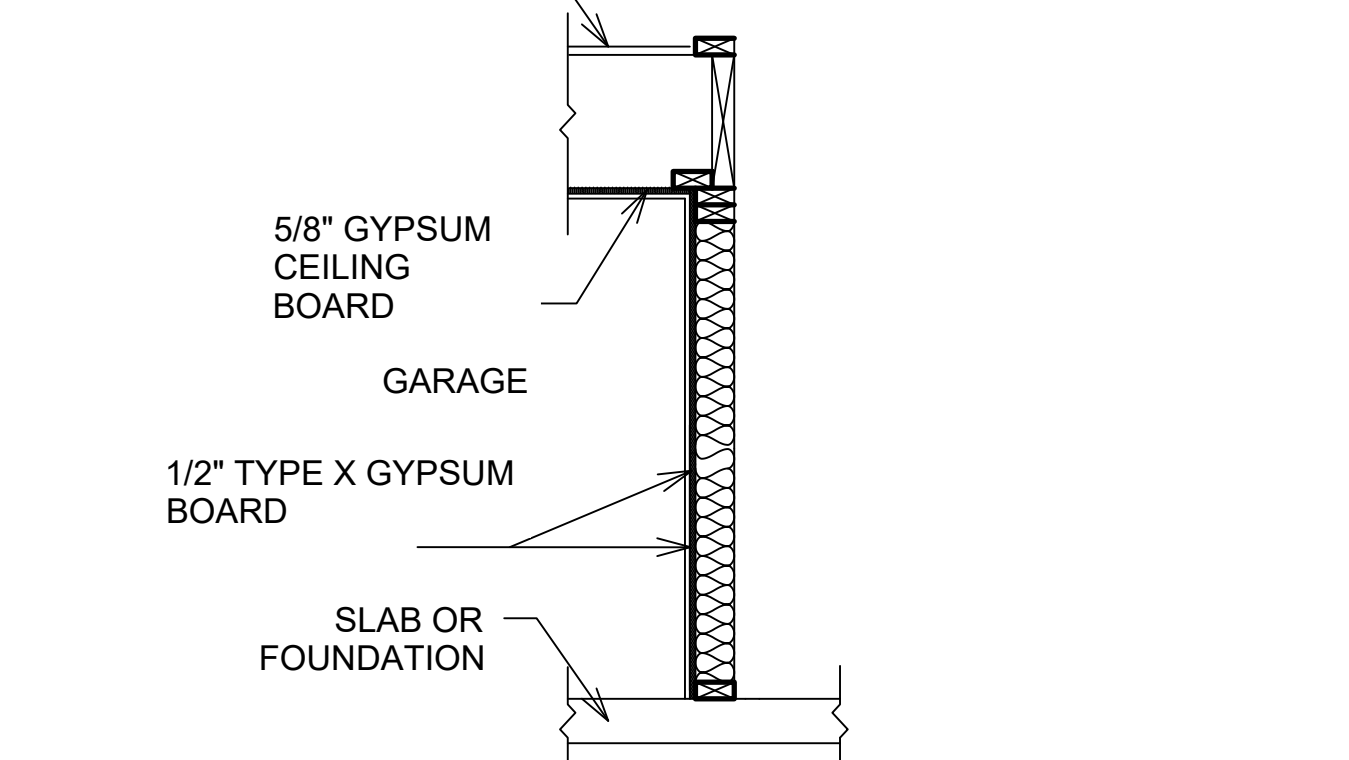
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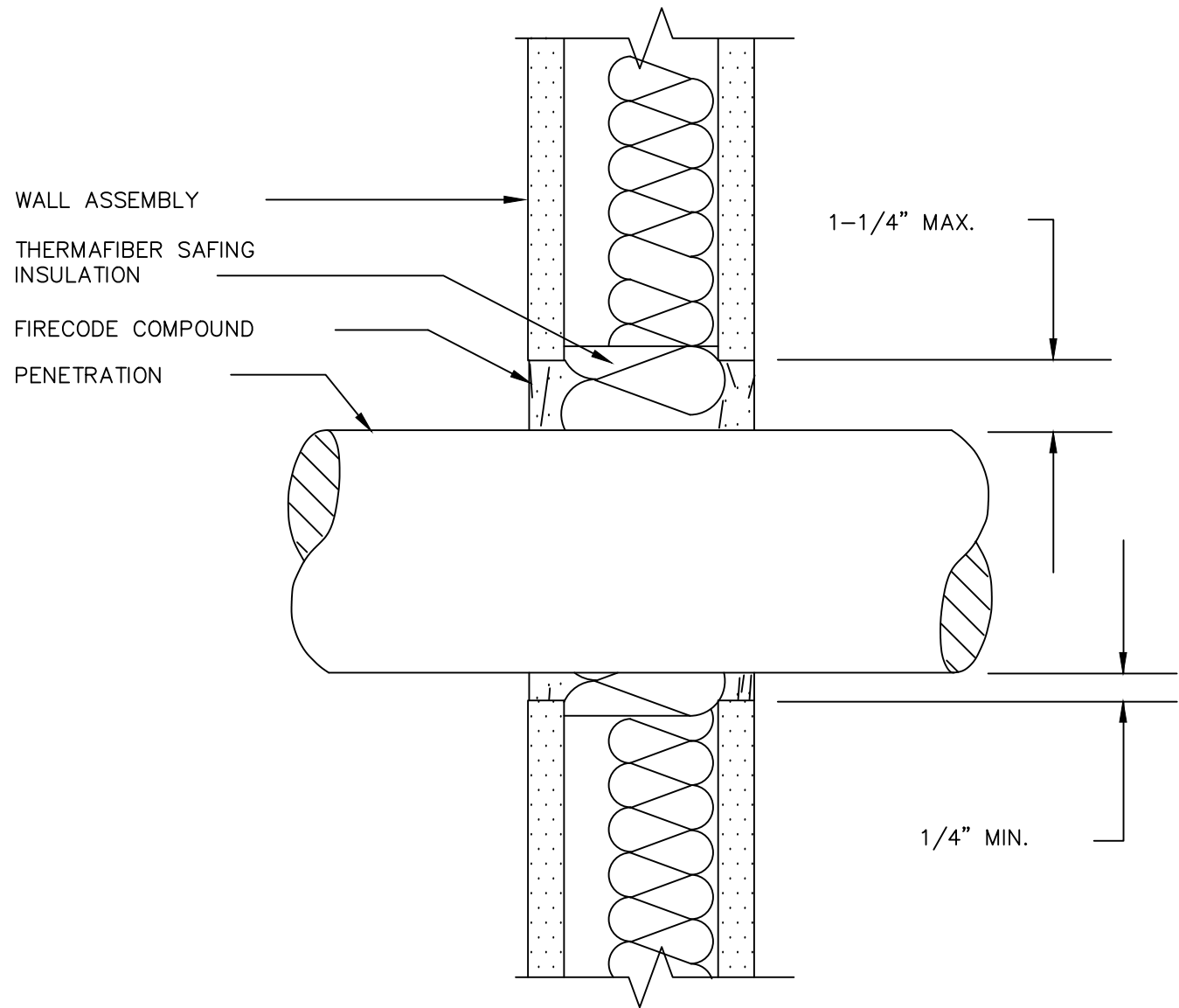
GRAB BAR DETAIL 1



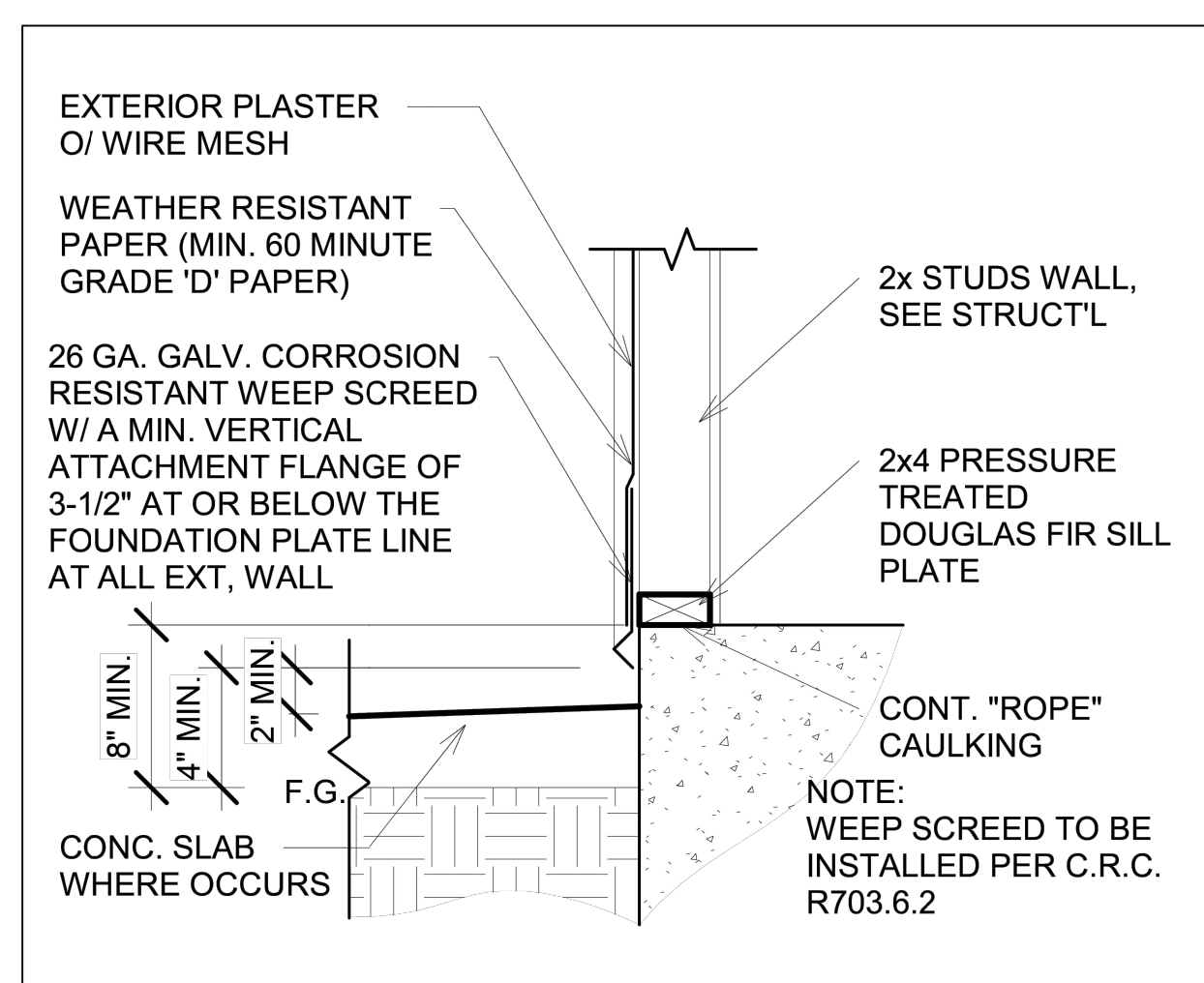
② 1 HOUR STC 50 TO 54 INTERIOR PARTITION



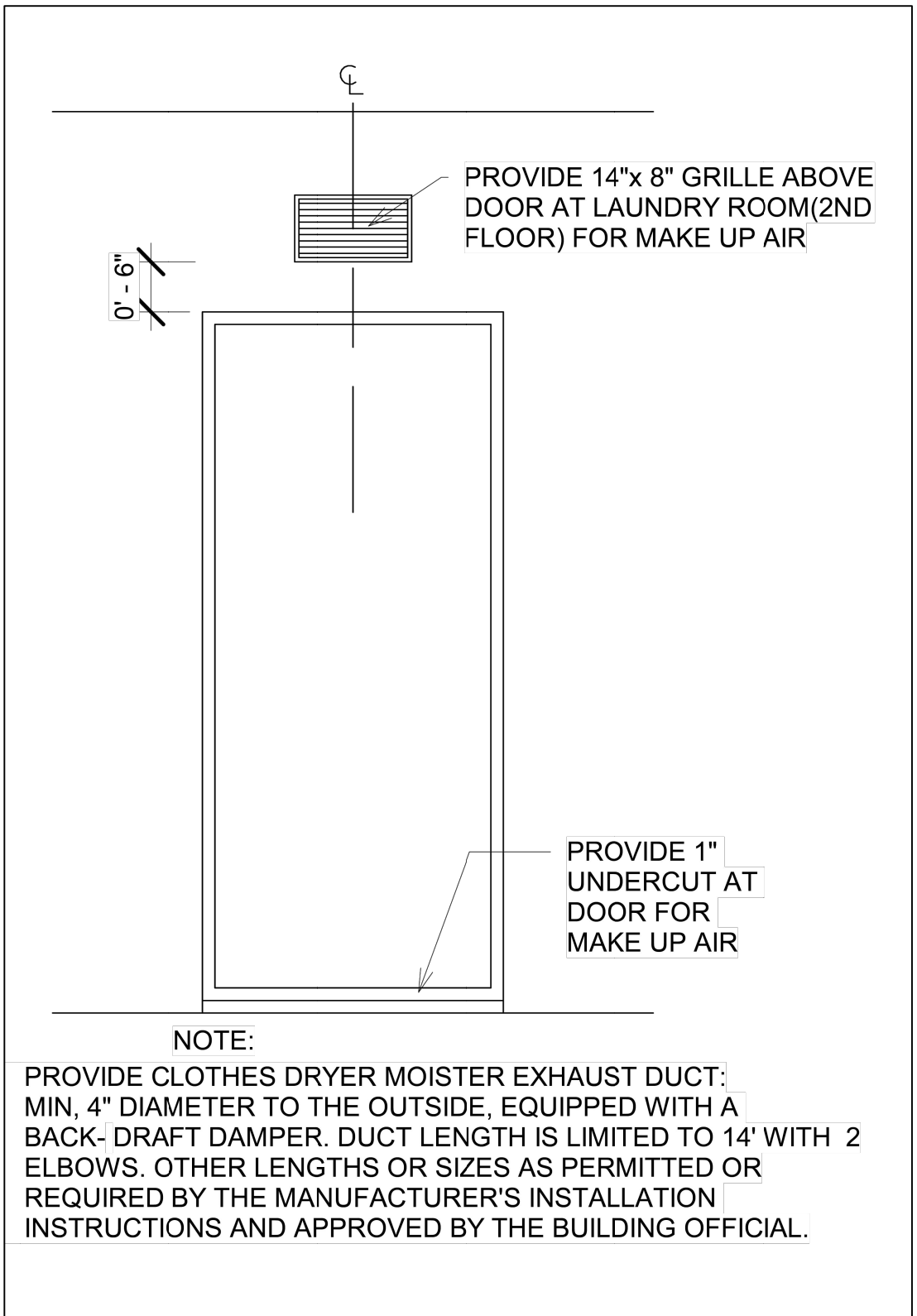
③ ONE HOUR- FIRE SEPARATION WALL



④ PIPE PENETRATION



WEEP SCREED DETAIL 5



MAKE UP AIR LAUNDRY DETAIL 6

SECTION NOTES

1. FASCIA BOARD (SEE ELEVATION)
2. BARGE BOARD (SEE ELEVATION)
3. EXPOSED RAFTER TAILS. (SEE ELEVATION)
4. ROOFING MATERIAL, REFER TO ROOF PLAN NOTES.
5. ROOF SHEATHING
- 5A. TWO LAYER OF VAPOR BARRIER
6. DESIGNED WOOD ROOF TRUSSES.
- 6A. GUTTER
7. HEEL STAND TRUSSES.
8. GIRDER TRUSS.
9. 2X ROOF RAFTERS.
10. 2X ROOF JOISTS.
11. 2X CEILING JOISTS.
12. RIDGE BEAM.
13. FLUSH BEAM.
14. DROPPED BEAM.
15. HEADER.
16. 1X OVER 2X TOP PLATE AT NON-BEARING WALL.
17. DOUBLE 2X TOP PLATE AT EXTERIOR AND BEARING WALLS.
18. 2X FLOOR JOISTS.
19. DESIGNED FLOOR JOISTS.
20. FLOOR SHEATHING.
21. G.I. FLASHING AT (ROOF TO WALL).
22. G.I. FLASHING AND SADDLE / CRICKET.
23. EXPOSED BEAM.
24. 2X SOLE PLATE.
25. 2X P.T.D.F. SILL PLATE.
26. 2X4 STUDS.
27. 2X4 CRIPPLES.
28. 2X CEILING FURRING.
29. 2X BLOCKING.
30. 2X6 STUDS.
31. PONY WALL. SEE PLAN FOR HEIGHT.
32. BALLOON FRAMED WALLS. SEE STRUCTURAL FRAMING PLANS, STRUCTURAL CALCULATIONS AND GENERAL NOTES.
33. 2X STAIR STRINGERS AT 16" ON CENTER
34. PLYWOOD TREADS AND RISERS.
35. WINDER STAIR FRAMING W/ PLYWOOD TREADS.
36. RIP 2X DECK JOISTS FOR 1/4" PER FOOT SLOPE.
37. ELASTOMERIC DECKING OVER PLYWOOD SUBFLOOR. INSTALLED TO MANUFACTURER'S SPECIFICATIONS.
38. 2X 'NAIL SPACED' DECKING.
39. ENCLOSED USABLE SPACE UNDER STAIRS SHALL BE PROTECTED ON ENCLOSED SIDE WITH 1/2" GYPSUM BOARD C.R.C. R302.7.
40. 42" HIGH GUARD PER C.R.C. R3122.
41. 34"-36" HIGH HANDRAIL ABOVE NOSING PER C.R.C. R311.7.8.1.
42. FIBERBATT INSULATION-SEE ENERGY COMPLIANCE SHEET.
43. EXTERIOR FINISH, REFER TO ELEVATIONS.
44. EXTERIOR CEILING / SOFFIT (SEE PLAN / ELEVATION).
45. SHELF. 1/2" GYP. BOARD OVER 3/8" PLYWOOD.
46. CONCRETE FLOOR SLAB.
47. 5/8" TYPE "X" GYP. BOARD 1-HOUR WALL & CEILING
48. 1/2" GYPSUM BOARD
49. 5/8" TYPE X GYP. BOARD 1-HOUR WALL EXTENDING TO FLOOR ABOVE.
50. 1 HOUR STC 50 TO 54 INTERIOR PARTITION

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SECTIONS & DETAILS

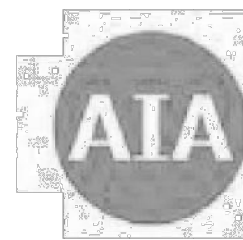
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ANHA design studio



California

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

anha
S T U D I O

386 Via Monterey
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CA 92683
Tel: (714) 200 4122
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Handwritten signature

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CAL GREEN BUILDING

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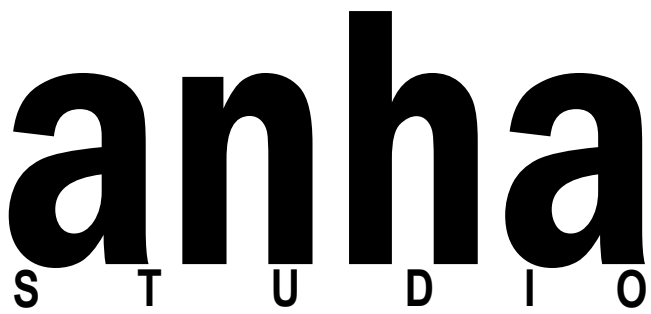
PLOT REFERENCE DATE: 01/28/2025

Y	N/A	RESPON. PARTY	CHAPTER 3 GREEN BUILDING SECTION 301 GENERAL	Y	N/A	RESPON. PARTY	4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities.	Y	N/A	RESPON. PARTY	4.106.4.2.4 Identification.	Y	N/A	RESPON. PARTY	4.304 OUTDOOR WATER USE
			301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists 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.				4.106.4.2.1 Multifamily development projects with less than 20 dwelling units; and hotels and motels with less than 20 sleeping units or guest rooms. The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.				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.				4.304 OUTDOOR WATER USE 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.
			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.				1. EV Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all EVs at all required EV spaces at a minimum of 40 amperes.				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 successor(s).				NOTES: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the <i>California Code Regulations</i> , Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are available at: https://www.water.ca.gov/
			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.				2. EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit.				DIVISION 4.2 ENERGY EFFICIENCY 4.201 GENERAL 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.				DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.
			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.				3. EV Chargers. Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. Where common use parking is provided, at least one EV charger shall be located in the common use parking area and shall be available for use by all residents or guests.				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 4.303.1.4.				4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage and reuse a minimum of 65 percent of the non-hazardous construction and demolition waste in accordance with either Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management ordinance.
			Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. 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.				Exception: Areas of parking facilities served by parking lifts.				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.				Exceptions: 1. Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist or are not located reasonably close to the jobsite. 3. The enforcing agency may make exceptions to the requirements of this section when isolated jobsites are located in areas beyond the haul boundaries of the diversion facility.
			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.				4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more sleeping units or guest rooms. The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to this section.				Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving plumbing fixtures. 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.				4.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan in conformance with Items 1 through 5. The construction waste management plan shall be updated as necessary and shall be available during construction for examination by the enforcing agency.
			SECTION 302 MIXED OCCUPANCY BUILDINGS 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.				Exception: When EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of parking spaces required by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed over the five (5) percent required.				4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush.				4.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the enforcing agency, which can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with Section 4.408.1.
			Exceptions: 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable. 2. [HCD] For purposes of CALGreen, 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.				2. EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per dwelling unit when more than one parking space is provided for use by a single dwelling unit.				4.303.1.3 Showerheads.				Note: The owner or contractor may make the determination if the construction and demolition waste materials will be diverted by a waste management company.
			DIVISION 4.1 PLANNING AND DESIGN ABBREVIATION DEFINITIONS: HCD Department of Housing and Community Development BSC California Building Standards Commission DSASS Division of the State Architect, Structural Safety OSHPD Office of Statewide Health Planning and Development LR Low Rise HR High Rise AA Additions and Alterations N New				Exception: Areas of parking facilities served by parking lifts.				4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.				4.408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1
			CHAPTER 4 RESIDENTIAL MANDATORY MEASURES				3. EV Chargers. Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. Where common use parking is provided, at least one EV charger shall be located in the common use parking area and shall be available for use by all residents or guests.				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.				4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates compliance with Section 4.408.2, Items 1 through 5, Section 4.408.3 or Section 4.408.4.
			SECTION 4.102 DEFINITIONS 4.102.1 DEFINITIONS The following terms are defined in Chapter 2 (and are included here for reference)				Exception: Electric vehicle charging stations serving public accommodations, public housing, motels and hotels shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable requirements.				4.303.1.4 Faucets.				Notes: 1. Sample forms found in "A Guide to the California Green Building Standards Code (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in documenting compliance with this section. 2. Mixed construction and demolition debris (C & D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).
			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.				When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required, an automatic load management system (ALMS) may be used to reduce the maximum required electrical capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall have a capacity of not less than 30 amperes. ALMS shall not be used to reduce the minimum required electrical capacity to the required EV capable spaces.				4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 80 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.				4.410 BUILDING MAINTENANCE AND OPERATION 4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building: 1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure. 2. Operation and maintenance instructions for the following: a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment. b. Roof and yard drainage, including gutters and downspouts. c. Space conditioning systems, including condensers and air filters. d. Landscape irrigation systems. e. Water reuse systems. 3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations. 4. Public transportation and/or carpool options available in the area. 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range. 6. Information about water-conserving landscape and irrigation design and controllers which conserve water. 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation. 8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc. 9. Information about state solar energy and incentive programs available. 10. A copy of all special inspections verifications required by the enforcing agency or this code. 11. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures. 12. Information and/or drawings identifying the location of grab bar reinforcements.
			WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials such as hay, straw or similar material placed in the form of tubes and placed on a downflow slope. Wattles are also used for perimeter and inlet controls.				4.106.4.2.2.1 Location. EVCS shall comply with at least one of the following options: 1. The charging space shall be located adjacent to an accessible parking space meeting the requirements of the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space. 2. The charging space shall be located on an accessible route, as defined in the California Building Code, Chapter 2, to the building. Exception: Electric vehicle charging stations designed and constructed in compliance with the California Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1 and Section 4.106.4.2.2.1.2, Item 3.				4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory 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.				Notes: 1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure. 2. Operation and maintenance instructions for the following: a. Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, electric vehicle chargers, water-heating systems and other major appliances and equipment. b. Roof and yard drainage, including gutters and downspouts. c. Space conditioning systems, including condensers and air filters. d. Landscape irrigation systems. e. Water reuse systems. 3. Information from local utility, water and waste recovery providers on methods to further reduce resource consumption, including recycle programs and locations. 4. Public transportation and/or carpool options available in the area. 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent and what methods an occupant may use to maintain the relative humidity level in that range. 6. Information about water-conserving landscape and irrigation design and controllers which conserve water. 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation. 8. Information on required routine maintenance measures, including, but not limited to, caulking, painting, grading around the building, etc. 9. Information about state solar energy and incentive programs available. 10. A copy of all special inspections verifications required by the enforcing agency or this code. 11. Information from the Department of Forestry and Fire Protection on maintenance of defensible space around residential structures. 12. Information and/or drawings identifying the location of grab bar reinforcements.
			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.				4.106.4.2.2.1.1 Accessible EV spaces. In addition to the requirements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall comply with the accessibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section 1106A.				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).				4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.
			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: 1. Retention basins of sufficient size shall be utilized to retain storm water on the site. 2. 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 by the enforcing agency. 3. Compliance with a lawfully enacted storm water management ordinance.				4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions. The charging spaces shall be designed to comply with the following: 1. The minimum length of each EV space shall be 18 feet (5486 mm). 2. The minimum width of each EV space shall be 9 feet (2743 mm). 3. One in every 25 charging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is 12 feet (3658 mm). a. Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 percent slope) in any direction.				4.303.2 Submersibles for multifamily buildings and dwelling units in mixed-used residential/commercial buildings. Submersibles shall be installed to measure water usage of individual rental dwelling units in accordance with the <i>California Plumbing Code</i> .				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.
			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. Swales 2. Water collection and disposal systems 3. French drains 4. Water retention gardens 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.				4.106.4.2.3 EV space requirements. 1. Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close proximity to the proposed location of 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. 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 of an EV charger at the time of original construction in accordance with the California Electrical Code.				4.303.2 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 1701.1 of the <i>California Plumbing Code</i> .				4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.
			Exception: Additions and alterations not altering the drainage path.				2. Multiple EV spaces required. Construction documents shall indicate the raceway termination point and the location of installed or future EV spaces, receptacles or EV chargers. Construction documents shall also provide information on amperage of installed or future receptacles or EVSE, raceway method(s), wiring schematics and electrical load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required raceways and related components that are planned to be installed underground, enclosed, inaccessible or in concealed areas and spaces shall be installed at the time of original construction.				NOTE: THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER.				4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.
			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 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.				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.				TABLE 4.303.1-1 MAXIMUM FLOW RATE				4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.
			4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".				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.				TABLE 4.303.1-1 MAXIMUM FLOW RATE				4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.
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2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)



386 Via Monterey
Westminster
CA 92683
Tel: (714) 200 4122
Email: aha@anha-studio.com

ANHA studio

[Handwritten signature]

NEW HOME

16472 BARNSTABLE CIRCLE
HUNTINGTON BEACH, CA 92649

DANIEL HA

16472 BARNSTABLE CIRCLE
HUNTINGOTN BEACH, CA 92649
Tel: (949) 735 8451
email: drdanielha@yahoo.com

BUILDING DEPARTMENT SUBMITTAL:

REVISIONS:	
03/01/2025	PLANNING DEPARTMENT
05/13/2025	PLANNING DEPARTMENT
07/10/2025	PLANNING DEPARTMENT
07/29/2025	PLANNING DEPARTMENT
09/22/2025	PLANNING DEPARTMENT

PROJECT DIRECTOR:
JOB CAPTAIN:
SENIOR ASSOCIATE:
ASSOCIATES:
PROJECT NUMBER:
PROJECT CAD FILE:

SHEET TITLE:
CAL GREEN BUILDING

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SHEET NUMBER:

G.2

PLOT REFERENCE DATE: 01/28/2025

Y NA RESPON PARTY MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g O₃/g ROG). Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94701. MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood. PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a). REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere. VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a). 4.503 FIREPLACES 4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances. 4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system. 4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section. 4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air pollution or air quality management district rules apply: - Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products, as specified in Subsection 2 below. - Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with section 94507. 4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply. 4.504.2.3 Aerosol Paints and Coatings. Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROG in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8, Rule 49. 4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: - Manufacturer's product specification. - Field verification of on-site product containers.	Y NA RESPON PARTY <table><caption>TABLE 4.504.2 - SEALANT VOC LIMIT</caption><tr><th colspan="2">(Less Water and Less Exempt Compounds in Grams per Liter)</th></tr><tr><th>SEALANTS</th><th>VOC LIMIT</th></tr><tr><td>ARCHITECTURAL</td><td>250</td></tr><tr><td>MARINE DECK</td><td>760</td></tr><tr><td>NONMEMBRANE ROOF</td><td>300</td></tr><tr><td>ROADWAY</td><td>250</td></tr><tr><td>SINGLE-PLY ROOF MEMBRANE</td><td>450</td></tr><tr><td>OTHER</td><td>420</td></tr><tr><th colspan="2">SEALANT PRIMERS</th></tr><tr><td>ARCHITECTURAL</td><td></td></tr><tr><td>NON-POROUS</td><td>250</td></tr><tr><td>POROUS</td><td>775</td></tr><tr><td>MODIFIED BITUMINOUS</td><td>500</td></tr><tr><td>MARINE DECK</td><td>760</td></tr><tr><td>OTHER</td><td>750</td></tr></table>	(Less Water and Less Exempt Compounds in Grams per Liter)		SEALANTS	VOC LIMIT	ARCHITECTURAL	250	MARINE DECK	760	NONMEMBRANE ROOF	300	ROADWAY	250	SINGLE-PLY ROOF MEMBRANE	450	OTHER	420	SEALANT PRIMERS		ARCHITECTURAL		NON-POROUS	250	POROUS	775	MODIFIED BITUMINOUS	500	MARINE DECK	760	OTHER	750	Y NA RESPON PARTY <table><caption>TABLE 4.504.3 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{1,2}</caption><tr><th colspan="2">GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS</th></tr><tr><th>COATING CATEGORY</th><th>VOC LIMIT</th></tr><tr><td>FLAT COATINGS</td><td>50</td></tr><tr><td>NON-FLAT COATINGS</td><td>100</td></tr><tr><td>NONFLAT-HIGH GLOSS COATINGS</td><td>150</td></tr><tr><th colspan="2">SPECIALTY COATINGS</th></tr><tr><td>ALUMINUM ROOF COATINGS</td><td>400</td></tr><tr><td>BASEMENT SPECIALTY COATINGS</td><td>400</td></tr><tr><td>BITUMINOUS ROOF COATINGS</td><td>50</td></tr><tr><td>BITUMINOUS ROOF PRIMERS</td><td>350</td></tr><tr><td>BOND BREAKERS</td><td>350</td></tr><tr><td>CONCRETE CURING COMPOUNDS</td><td>350</td></tr><tr><td>CONCRETE/MASONRY SEALERS</td><td>100</td></tr><tr><td>DRIVEWAY SEALERS</td><td>50</td></tr><tr><td>DRY FOG COATINGS</td><td>150</td></tr><tr><td>FAUX FINISHING COATINGS</td><td>350</td></tr><tr><td>FIRE RESISTIVE COATINGS</td><td>350</td></tr><tr><td>FLOOR COATINGS</td><td>100</td></tr><tr><td>FORM-RELEASE COMPOUNDS</td><td>250</td></tr><tr><td>GRAPHIC ARTS COATINGS (SIGN PAINTS)</td><td>500</td></tr><tr><td>HIGH TEMPERATURE COATINGS</td><td>420</td></tr><tr><td>INDUSTRIAL MAINTENANCE COATINGS</td><td>250</td></tr><tr><td>LOW SOLIDS COATINGS³</td><td>120</td></tr><tr><td>MAGNESITE CEMENT COATINGS</td><td>450</td></tr><tr><td>MASTIC TEXTURE COATINGS</td><td>100</td></tr><tr><td>METALLIC PIGMENTED COATINGS</td><td>500</td></tr><tr><td>MULTICOLOR COATINGS</td><td>250</td></tr><tr><td>PRETREATMENT WASH PRIMERS</td><td>420</td></tr><tr><td>PRIMERS, SEALERS, & UNDERCOATERS</td><td>100</td></tr><tr><td>REACTIVE PENETRATING SEALERS</td><td>350</td></tr><tr><td>RECYCLED COATINGS</td><td>250</td></tr><tr><td>ROOF COATINGS</td><td>50</td></tr><tr><td>RUST PREVENTATIVE COATINGS</td><td>250</td></tr><tr><td>SHELLACS</td><td></td></tr><tr><td>CLEAR</td><td>730</td></tr><tr><td>OPAQUE</td><td>550</td></tr><tr><td>SPECIALTY PRIMERS, SEALERS & UNDERCOATERS</td><td>100</td></tr><tr><td>STAINS</td><td>250</td></tr><tr><td>STONE CONSOLIDANTS</td><td>450</td></tr><tr><td>SWIMMING POOL COATINGS</td><td>340</td></tr><tr><td>TRAFFIC MARKING COATINGS</td><td>100</td></tr><tr><td>TUB & TILE REFINISH COATINGS</td><td>420</td></tr><tr><td>WATERPROOFING MEMBRANES</td><td>250</td></tr><tr><td>WOOD COATINGS</td><td>275</td></tr><tr><td>WOOD PRESERVATIVES</td><td>350</td></tr><tr><td>ZINC-RICH PRIMERS</td><td>340</td></tr></table> 1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & 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.	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 COATINGS ³	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		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	275	WOOD PRESERVATIVES	350	ZINC-RICH PRIMERS	340	Y NA RESPON PARTY <table><caption>TABLE 4.504.5 - FORMALDEHYDE LIMITS:</caption><tr><th colspan="2">MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION</th></tr><tr><th>PRODUCT</th><th>CURRENT LIMIT</th></tr><tr><td>HARDWOOD PLYWOOD VENEER CORE</td><td>0.05</td></tr><tr><td>HARDWOOD PLYWOOD COMPOSITE CORE</td><td>0.05</td></tr><tr><td>PARTICLE BOARD</td><td>0.09</td></tr><tr><td>MEDIUM DENSITY FIBERBOARD</td><td>0.11</td></tr><tr><td>THIN MEDIUM DENSITY FIBERBOARD₂</td><td>0.13</td></tr></table> 1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12. 2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).	MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION		PRODUCT	CURRENT LIMIT	HARDWOOD PLYWOOD VENEER CORE	0.05	HARDWOOD PLYWOOD COMPOSITE CORE	0.05	PARTICLE BOARD	0.09	MEDIUM DENSITY FIBERBOARD	0.11	THIN MEDIUM DENSITY FIBERBOARD ₂	0.13	Y NA RESPON PARTY DIVISION 4.5 ENVIRONMENTAL QUALITY (continued) 4.504.3 CARPET SYSTEMS. All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350) See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEOD/CEHLB/IAQ/Pages/VOC.aspx. 4.504.3.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350) See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEOD/CEHLB/IAQ/Pages/VOC.aspx. 4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 4.504.1. 4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring is installed, at least 80% of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350) See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEOD/CEHLB/IAQ/Pages/VOC.aspx. 4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.), by or before the dates specified in those sections, as shown in Table 4.504.5. 4.504.5.1 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following: - Product certifications and specifications. - Chain of custody certifications. - Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). - Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269, European 636 3S standards, and Canadian CSA 0121, CSA 0151, CSA 0163, and CSA 0325 standards. - Other methods acceptable to the enforcing agency. 4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the California Building Standards Code. 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section. 4.505.2.1 Capillary break. A capillary break shall be installed in compliance with at least one of the following: - A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curling, shall be used. For additional information, see American Concrete Institute, ACI 302.2R-06. - Other equivalent methods approved by the enforcing agency. - A slab design specified by a licensed design professional. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified in compliance with the following: - Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code. - Moisture readings shall be taken at a point 2 feet (610 mm) to 4 feet (1219 mm) from the grade stamped end of each piece verified. - At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing. Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applied insulation products shall follow the manufacturers' drying recommendations prior to enclosure. 4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanically ventilated and shall comply with the following: - Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building. - Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control. - Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may utilize manual or automatic means of adjustment. - A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in). Notes: - For the purposes of this section, a bathroom is a room which contains a bathtub, shower or tub/shower combination. - Lighting integral to bathroom exhaust fans shall comply with the California Energy Code. 4.507 ENVIRONMENTAL COMFORT 4.507.2 HEATING AND AIR-CONDITIONING SYSTEM DESIGN. Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods: - The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J - 2011 (Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods. - Duct systems are sized according to ANSI/ACCA 1 Manual D - 2014 (Residential Duct Systems), ASHRAE handbooks or other equivalent design software or methods. - Select heating and cooling equipment according to ANSI/ACCA 3 Manual S - 2014 (Residential Equipment Selection), or other equivalent design software or methods. Exception: Use of alternate design temperatures necessary to ensure the system functions are acceptable.
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PARTICLE BOARD	0.09																																																																																																																																											
MEDIUM DENSITY FIBERBOARD	0.11																																																																																																																																											
THIN MEDIUM DENSITY FIBERBOARD ₂	0.13																																																																																																																																											

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.