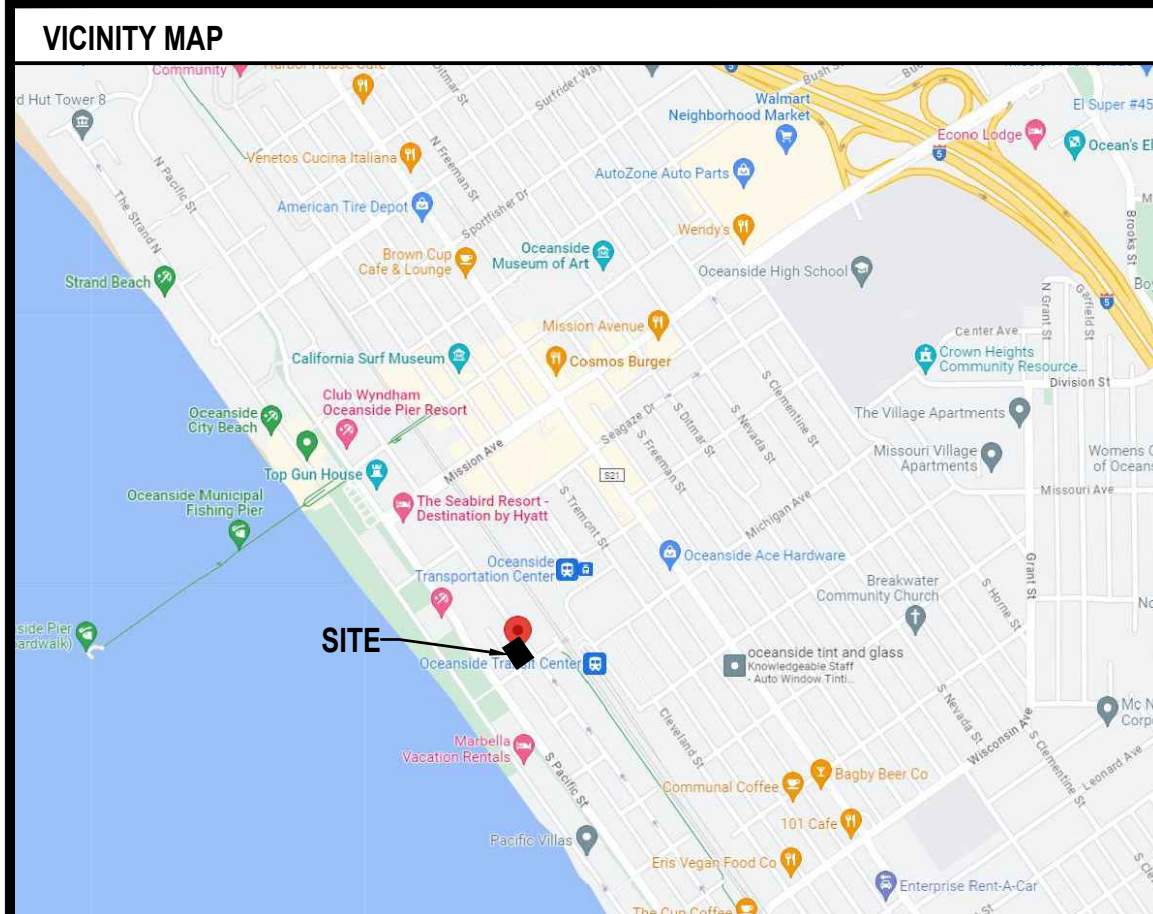


4.02 ATTACHMENT 2

151 S MYERS ST - UNIT G DECK ADDITION

151 S MYERS STREET
OCEANSIDE, CA

VICINITY MAP 	CODES 2022 CALIFORNIA RESIDENTIAL CODE 2022 CALIFORNIA BUILDING CODE 2022 CALIFORNIA FIRE CODE 2022 CALIFORNIA PLUMBING CODE 2022 CALIFORNIA MECHANICAL CODE 2022 CALIFORNIA ELECTRICAL CODE 2022 CALIFORNIA ENERGY CODE 2022 CALIFORNIA EXISTING BUILDING CODE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE CITY OF OCEANSIDE MUNICIPAL CODE ZONING ZONE: COASTAL ZONE: BEACH OVERLAY ZONE: D-5 YES YES	PROJECT INFORMATION ASSESSORS PARCEL NUMBER: 150-073-1900 ADDRESS: 151 S MYERS STREET OCEANSIDE, CA. 92054 YEAR BUILT: 1971 TYPE OF CONSTRUCTION: V-B OCCUPANCY: R-2 USE: APARTMENT BUILDING FIRE SPRINKLERS: NO FIRE ALARM: NO STORIES: 3 UNIT TOTAL: 12 (UNIT G ONLY INCLUDES SUNROOM W/ PROPOSED DECKS) FLOOR AREA: EXISTING SUNROOM FLOOR AREA: +/- 386 S.F.	PROJECT DIRECTORY OWNER: NEEL PUJARA 151 S MYERS STREET OCEANSIDE, CA. 92054 T: 760-815-2818 npujara@gmail.com ARCHITECT: KIRK MOELLER ARCHITECTS, INC. CONTACT: KIRK MOELLER 2888 LOKER AVENUE EAST, SUITE 220 CARLSBAD, CA. 92010 T: 760-803-8006 kirk@kmarchitectsinc.com	SHEET INDEX ARCHITECTURAL A0.1 COVER SHEET A0.2 GENERAL NOTES A0.3 CAL GREEN NOTES A1.1 SITE PLAN A2.1 EXISTING SECOND FLOOR PLAN A2.2 EXISTING THIRD FLOOR PLAN A2.3 ENLARGED FLOOR PLANS A2.4 EXISTING ROOF PLAN A3.1 ELEVATIONS AD.1 DETAILS TITLE 24 T24-1 TITLE 24 T24-2 TITLE 24
DEFERRED SUBMITTALS - N/A SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. (SECTION 107.3.4.1)		SCOPE OF WORK PROPOSED DECK ADDITIONS LOCATED AT THE THIRD LEVEL SUNROOM OF UNIT G OF THE EXISTING APARTMENT BUILDING. THE PROPOSED DECKS WITH GUARDRAILS HAVE BEEN CONSTRUCTED AND REQUIRE A BUILDING PERMIT. NO ADDITIONAL WORK IS PROPOSED TO THE EXISTING APARTMENT BUILDING AND ALL PROVIDED PRIVATE GARAGES AND STREET PARKING WILL REMAIN. NO STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, OR GRADING WORK PROPOSED.		

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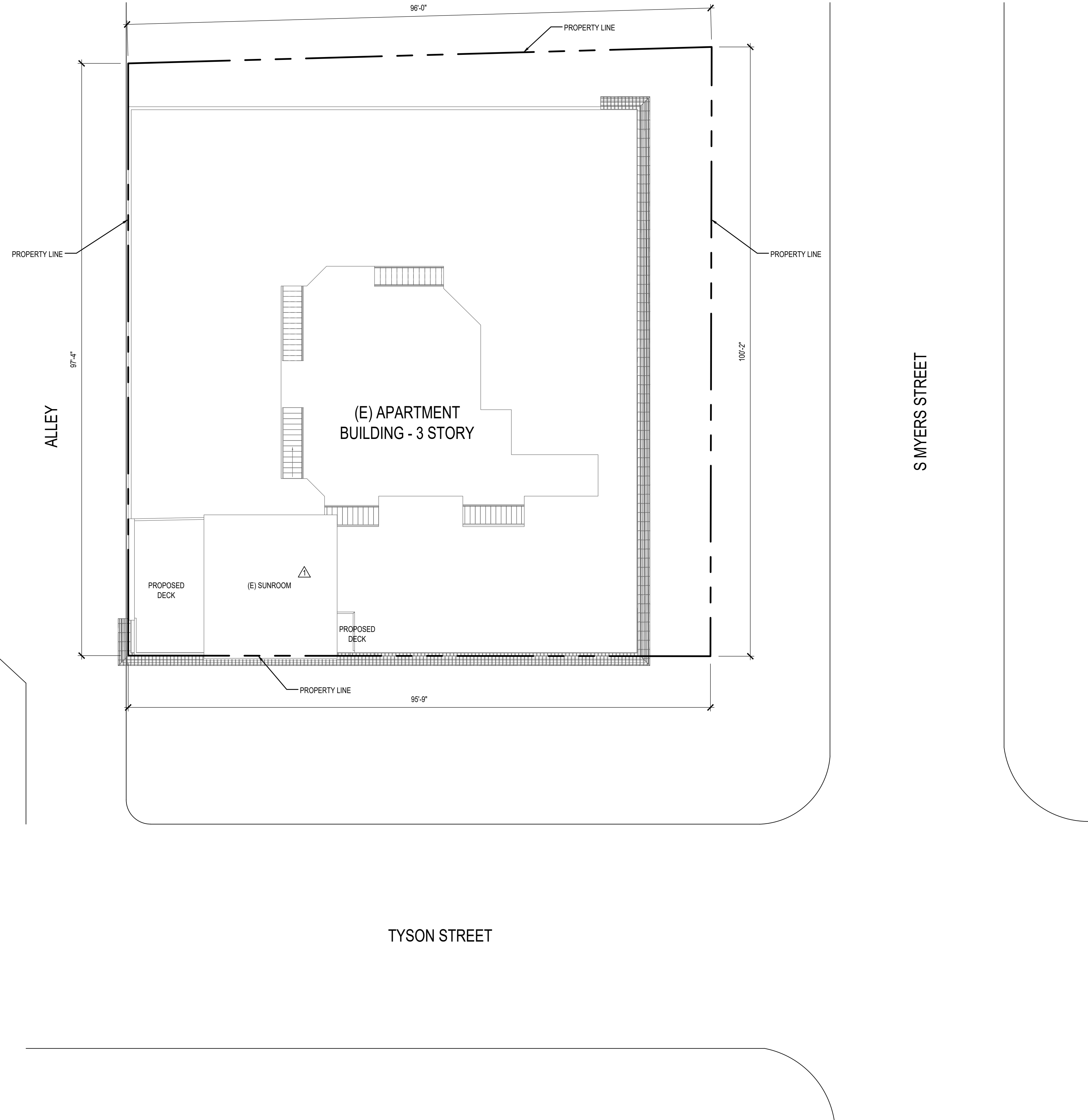
151 S MYERS ST - UNIT G DECK ADDITION
151 S MYERS ST
OCEANSIDE, CA

Date:	11-2-2023
Project:	151 S MYERS ST - UNIT G
File:	A0.1
Revisions:	
	CITY COMMENTS #1 - 01-26-24
	CITY COMMENTS #2 - 08-20-24

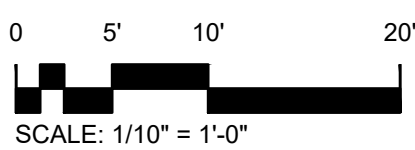
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Sheet Number:

A0.1



1 SITE PLAN



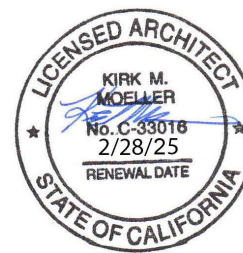
PLAN NORTH

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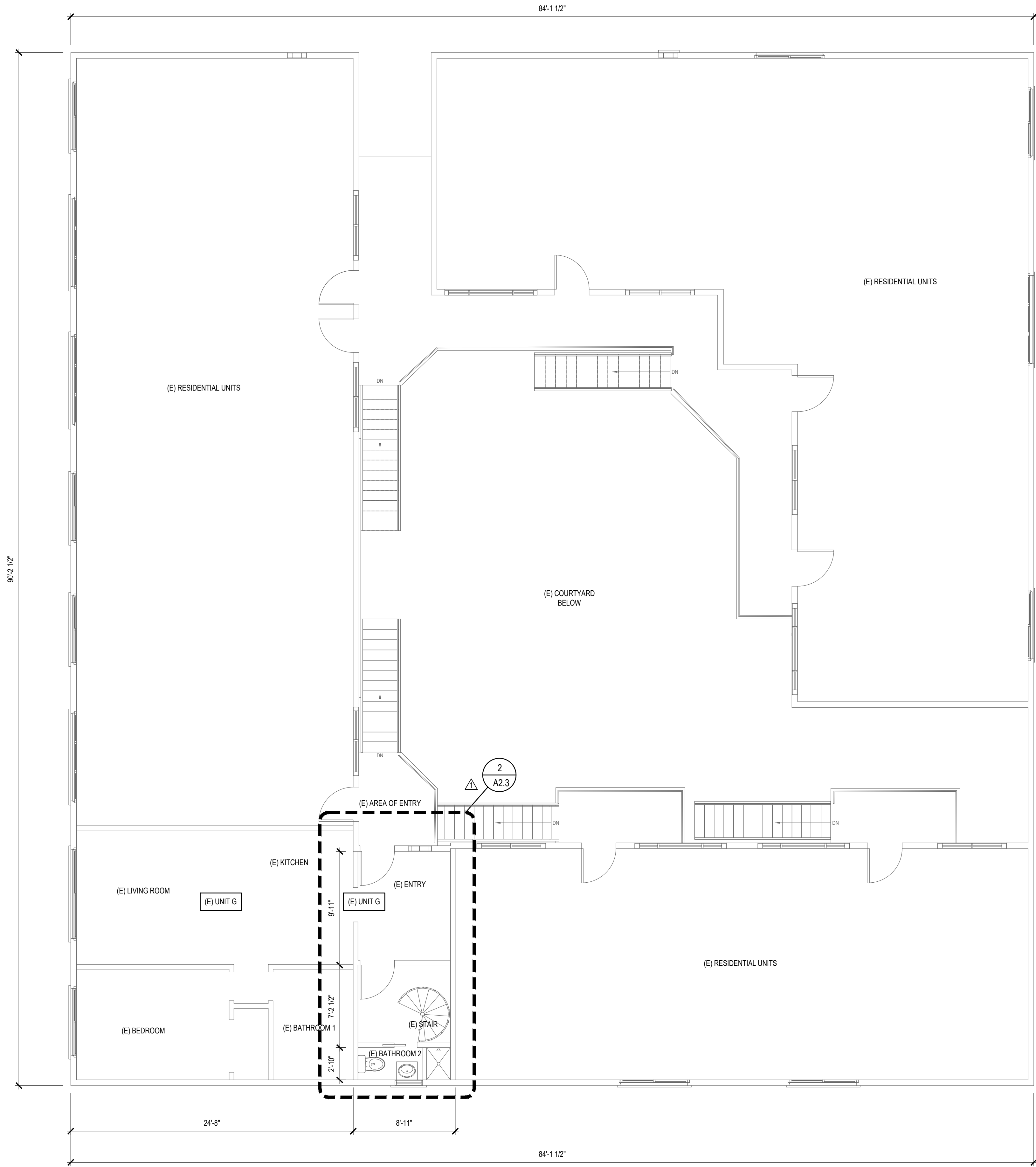


151 S MYERS ST - UNIT G DECK ADDITION
151 S MYERS ST
OCEANSIDE, CA

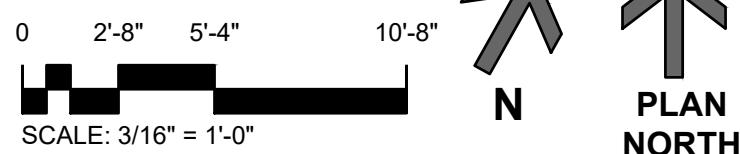
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File:	A1.1
Revisions:	
	△ CITY COMMENTS #1 - 01-26-24
	△ CITY COMMENTS #2 - 08-20-24

Sheet Title:
SITE PLAN

Sheet Number:
A1.1



1 EXISTING SECOND FLOOR PLAN - UNIT G



- GENERAL NOTES**
1. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET. THE MINIMUM NET CLEAR OPENING FOR EMERGENCY ESCAPE GRADE LEVEL OPENINGS SHALL BE 5 SQUARE FEET. (CFC 1030.2)
 2. EMERGENCY ESCAPE AND RESCUE OPENING SHALL HAVE THE BOTTOM OF THE CLEAR OPENING NOT GREATER THAN 44 INCHES MEASURED FROM THE FLOOR. (CFC 1030.3)
 3. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE THE FOLLOWING DIMENSIONS: THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24 INCHES. THE MIN NET CLEAR OPENING WIDTH DIMENSION SHALL BE 20 INCHES. THE NET CLEAR OPENING DIMENSION SHALL BE THE RESULT OF NORMAL OPERATION OF THE OPENING. (CFC 1030.2)
 4. PORTABLE FIRE EXTINGUISHERS WILL BE INSTALLED IN THE BUILDING IN ACCORDANCE WITH SECTION 906.
 5. CONTRACTOR TO PROTECT AND KEEP THE FLOOR SLAB CLEAN. ALL EQUIPMENT TO BE DIAPERED INCLUDING CARS AND TRUCKS.
 6. PENETRATIONS OF FIRE-RESISTIVE WALLS AND ROOF-CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTION R302.4.
 7. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATION IN CBC TABLE 803.11.
 8. ALL DIMENSIONS ARE TO THE FACE OF CONCRETE FOUNDATION, GRIDLINE, OR FACE OF WALL FRAMING U.N.O.
 9. ALL WALL FINISHES TO BE LEVEL 4 FINISH PER OWNER.
 10. EVERY DWELLING UNIT SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A ROOM TEMPERATURE OF 68 DEGREES F AT A LOCATION 3 FEET ABOVE THE FLOOR AND 2 FEET FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS.

- WALL LEGEND**
- | | | |
|---|-------|--|
| 1 | ===== | EXISTING EXTERIOR 2X4 WOOD FRAMED WALL WITH EXTERIOR FINISH TO REMAIN. PROTECT IN PLACE. |
| 2 | ===== | EXISTING INTERIOR 2X4 WOOD FRAMED WALL TO REMAIN. PROTECT IN PLACE. |

- KEYNOTES**
- ① EXISTING WINDOWS TO REMAIN. SEE SHEET A2.3 FOR WINDOW WIDTH DIMENSIONS. ALL WINDOW HEIGHTS ARE 4'-0"
 - ② EXISTING DOORS TO REMAIN
 - ③ EXISTING SPIRAL STAIRCASE TO REMAIN
 - ④ NOT USED
 - ⑤ 42" HIGH GUARDRAIL, SEE DETAIL 4 AD.1
 - ⑥ EXISTING BATHROOM FIXTURES TO REMAIN
 - ⑦ NOT USED
 - ⑧ WATERPROOF DECK COATING SYSTEM BY PL-1 DECK OR EQ. CLASS A, SLOPE TO FLOOR DRAIN TO GUTTER SYSTEM

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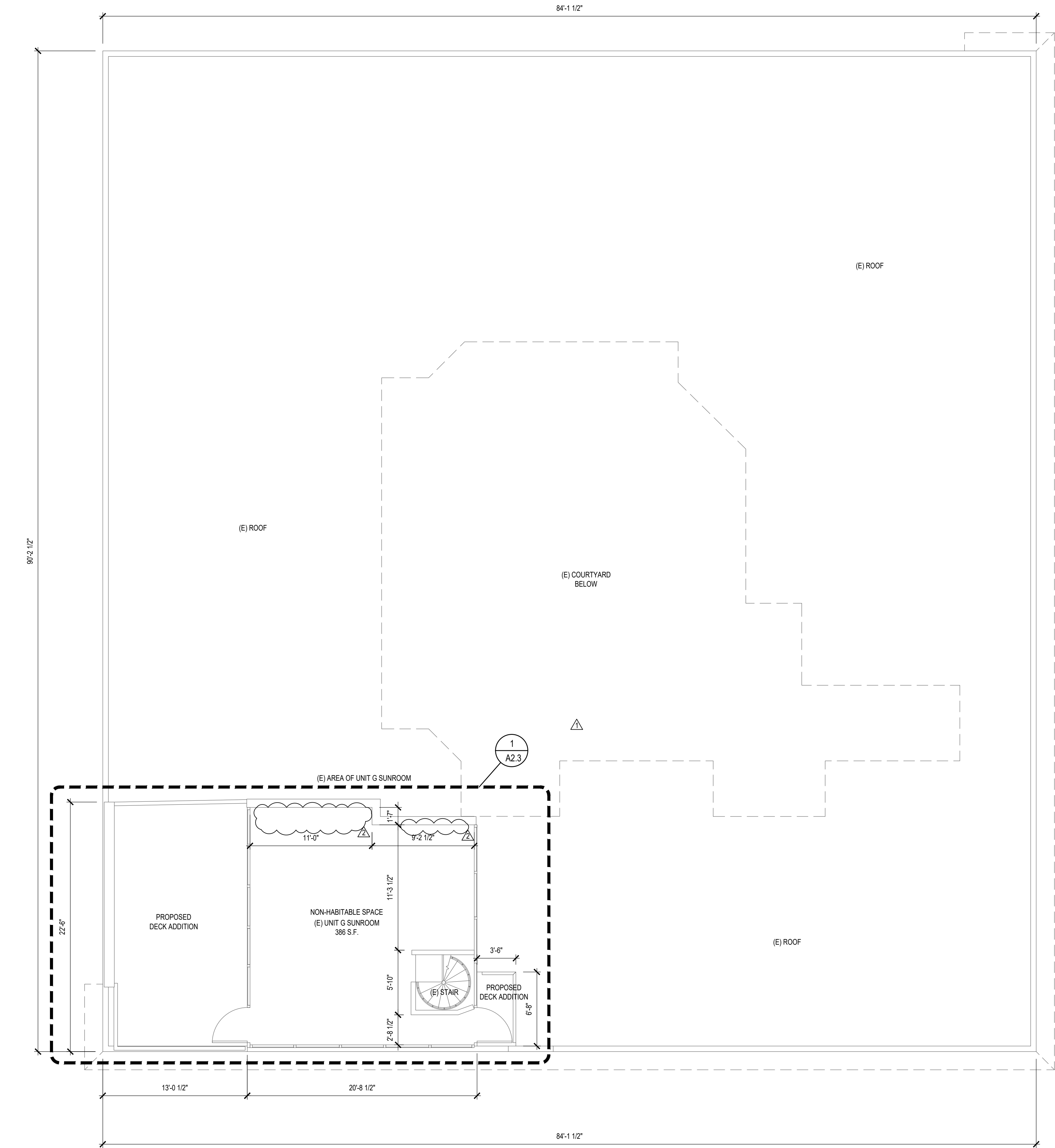


151 S MYERS ST - UNIT G DECK ADDITION
151 S MYERS ST
OCEANSIDE, CA

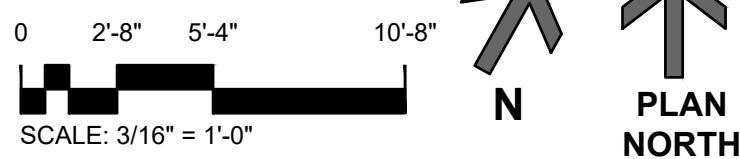
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Project: 151 S MYERS ST - UNIT G
File: A2.1
Revisions:
⚠ CITY COMMENTS #1 - 01-26-24
⚠ CITY COMMENTS #2 - 08-20-24

Sheet Title:
**EXISTING
SECOND
FLOOR PLAN**

Sheet Number:
A2.1



1 EXISTING THIRD FLOOR PLAN - UNIT G SUNROOM



- GENERAL NOTES**
1. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET. THE MINIMUM NET CLEAR OPENING FOR EMERGENCY ESCAPE GRADE LEVEL OPENINGS SHALL BE 5 SQUARE FEET. (CFC 1030.2)
 2. EMERGENCY ESCAPE AND RESCUE OPENING SHALL HAVE THE BOTTOM OF THE CLEAR OPENING NOT GREATER THAN 44 INCHES MEASURED FROM THE FLOOR. (CFC 1030.3)
 3. EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE THE FOLLOWING DIMENSIONS: THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24 INCHES. THE MIN NET CLEAR OPENING WIDTH DIMENSION SHALL BE 20 INCHES. THE NET CLEAR OPENING DIMENSION SHALL BE THE RESULT OF NORMAL OPERATION OF THE OPENING. (CFC 1030.2)
 4. PORTABLE FIRE EXTINGUISHERS WILL BE INSTALLED IN THE BUILDING IN ACCORDANCE WITH SECTION 906.
 5. CONTRACTOR TO PROTECT AND KEEP THE FLOOR SLAB CLEAN. ALL EQUIPMENT TO BE DIAPERED INCLUDING CARS AND TRUCKS.
 6. PENETRATIONS OF FIRE-RESISTIVE WALLS AND ROOF-CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTION R302.4.
 7. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATION IN CBC TABLE 803.11.
 8. ALL DIMENSIONS ARE TO THE FACE OF CONCRETE FOUNDATION, GRIDLINE, OR FACE OF WALL FRAMING U.N.O.
 9. ALL WALL FINISHES TO BE LEVEL 4 FINISH PER OWNER.
 10. EVERY DWELLING UNIT SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A ROOM TEMPERATURE OF 68 DEGREES F AT A LOCATION 3 FEET ABOVE THE FLOOR AND 2 FEET FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS.

- WALL LEGEND**
- | | | |
|---|-------|--|
| 1 | ===== | EXISTING EXTERIOR 2X4 WOOD FRAMED WALL WITH EXTERIOR FINISH TO REMAIN. PROTECT IN PLACE. |
| 2 | ===== | EXISTING INTERIOR 2X4 WOOD FRAMED WALL TO REMAIN. PROTECT IN PLACE. |

- KEYNOTES**
- 1 EXISTING WINDOWS TO REMAIN. SEE SHEET A2.3 FOR WINDOW WIDTH DIMENSIONS. ALL WINDOW HEIGHTS ARE 4'-0"
 - 2 EXISTING DOORS TO REMAIN
 - 3 EXISTING SPIRAL STAIRCASE TO REMAIN
 - 4 NOT USED
 - 5 42" HIGH GUARDRAIL, SEE DETAIL 4 AD.1
 - 6 EXISTING BATHROOM FIXTURES TO REMAIN
 - 7 NOT USED
 - 8 WATERPROOF DECK COATING SYSTEM BY PL-1 DECK OR EQ. CLASS A, SLOPE TO FLOOR DRAIN TO GUTTER SYSTEM

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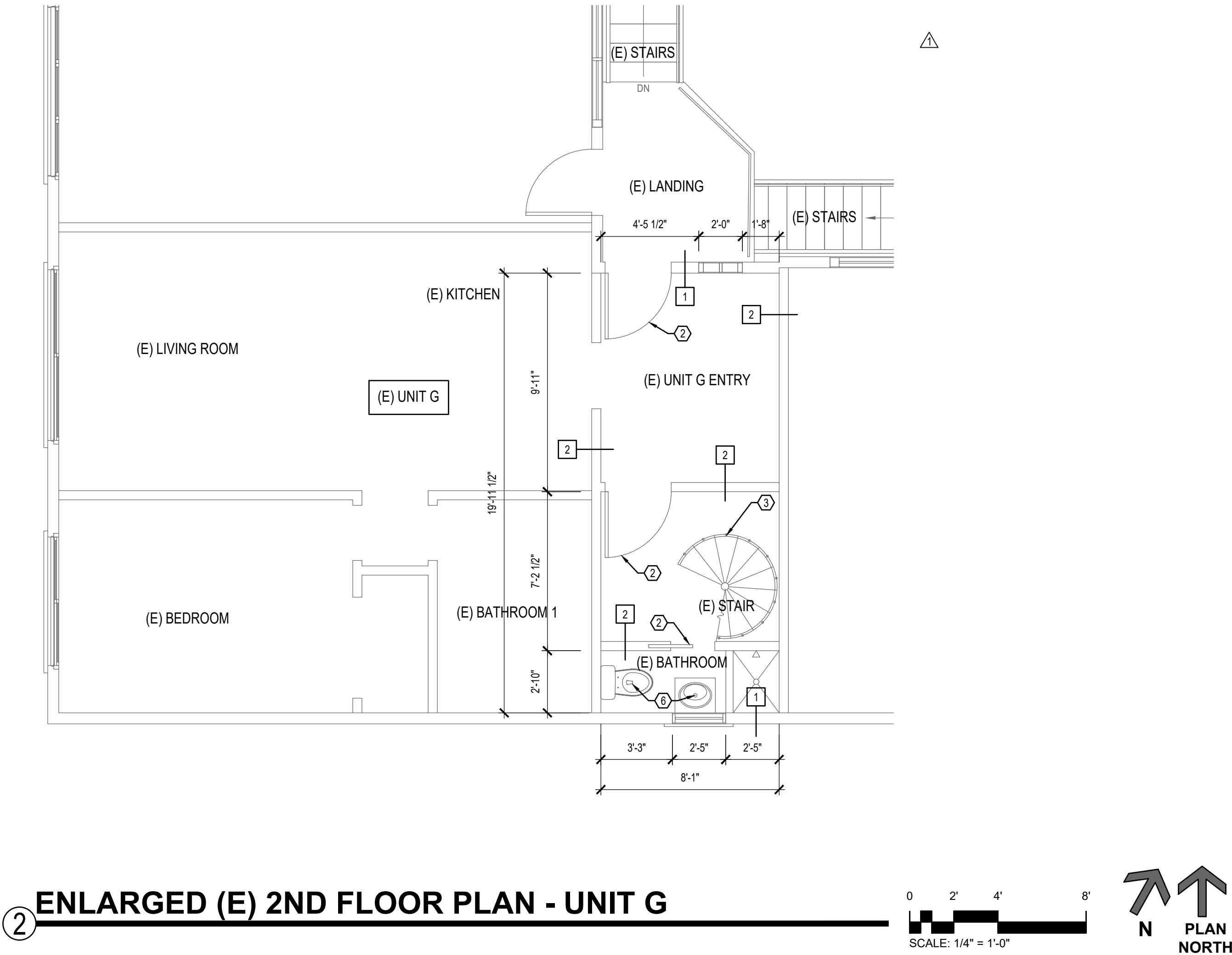


151 S MYERS ST - UNIT G DECK ADDITION
151 S MYERS ST
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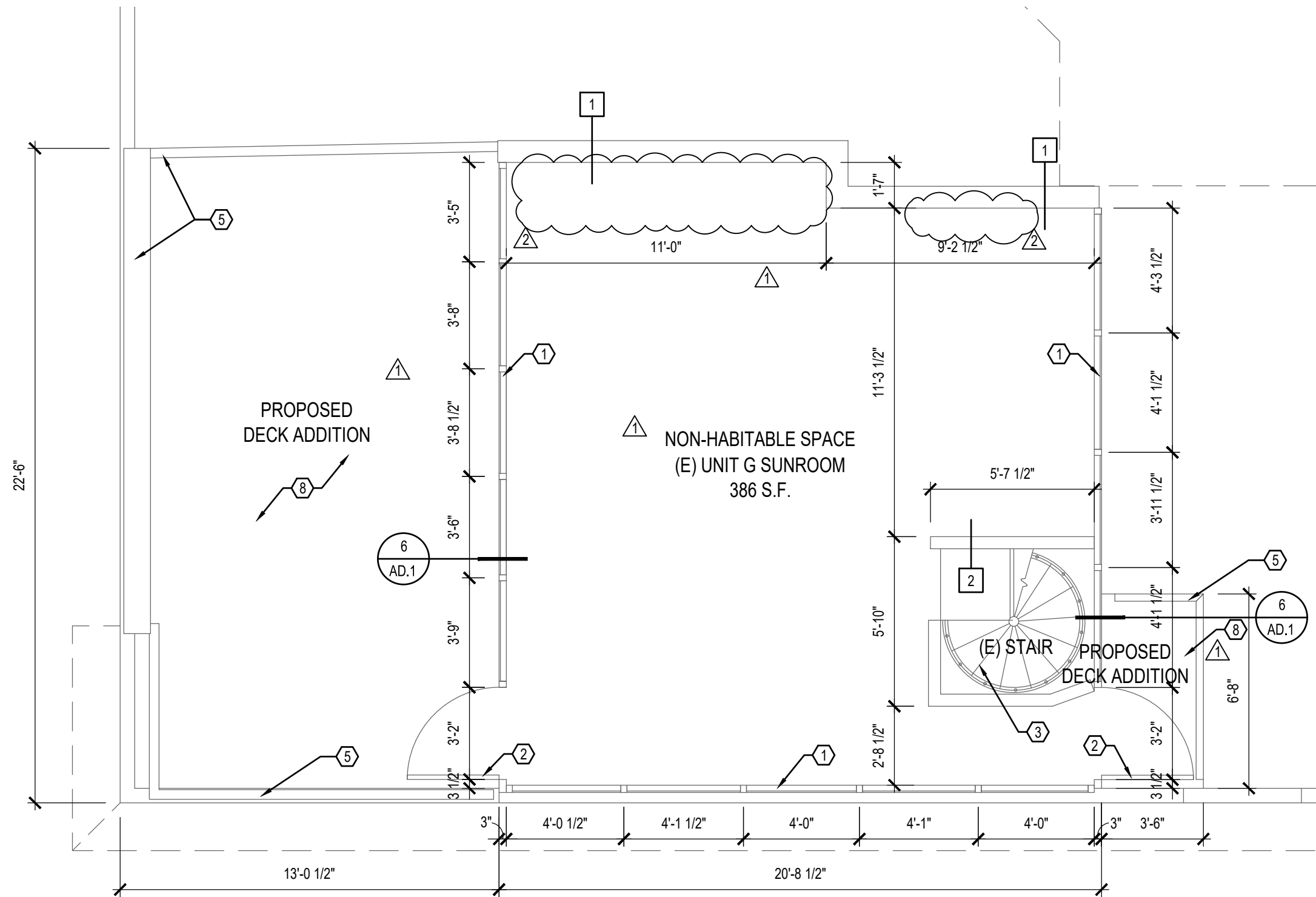
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File:	A2.2
Revisions:	
Δ CITY COMMENTS #1 - 01-26-24	
Δ CITY COMMENTS #2 - 08-20-24	

Sheet Title:
**EXISTING
THIRD
FLOOR PLAN**

Sheet Number:
A2.2



2 ENLARGED (E) 2ND FLOOR PLAN - UNIT G



1 ENLARGED (E) 3RD FLOOR PLAN - UNIT G SUNROOM

GENERAL NOTES

- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE A MINIMUM NET CLEAR OPENING OF 5.7 SQUARE FEET. THE MINIMUM NET CLEAR OPENING FOR EMERGENCY ESCAPE GRADE LEVEL OPENINGS SHALL BE 5 SQUARE FEET. (CFC 1030.2)
- EMERGENCY ESCAPE AND RESCUE OPENING SHALL HAVE THE BOTTOM OF THE CLEAR OPENING NOT GREATER THAN 44 INCHES MEASURED FROM THE FLOOR. (CFC 1030.3)
- EMERGENCY ESCAPE AND RESCUE OPENINGS SHALL HAVE THE FOLLOWING DIMENSIONS: THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24 INCHES. THE MIN NET CLEAR OPENING WIDTH DIMENSION SHALL BE 20 INCHES. THE NET CLEAR OPENING DIMENSION SHALL BE THE RESULT OF NORMAL OPERATION OF THE OPENING. (CFC 1030.2)
- PORTABLE FIRE EXTINGUISHERS WILL BE INSTALLED IN THE BUILDING IN ACCORDANCE WITH SECTION 906.
- CONTRACTOR TO PROTECT AND KEEP THE FLOOR SLAB CLEAN. ALL EQUIPMENT TO BE DIAPERED INCLUDING CARS AND TRUCKS.
- PENETRATIONS OF FIRE-RESISTIVE WALLS AND ROOF-CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTION R302.4.
- WALL AND CEILING MATERIALS SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATION IN CBC TABLE 803.11.
- ALL DIMENSIONS ARE TO THE FACE OF CONCRETE FOUNDATION, GRIDLINE, OR FACE OF WALL FRAMING U.N.O.
- ALL WALL FINISHES TO BE LEVEL 4 FINISH PER OWNER.
- EVERY DWELLING UNIT SHALL BE PROVIDED WITH HEATING FACILITIES CAPABLE OF MAINTAINING A ROOM TEMPERATURE OF 68 DEGREES F AT A LOCATION 3 FEET ABOVE THE FLOOR AND 2 FEET FROM EXTERIOR WALLS IN ALL HABITABLE ROOMS.

WALL LEGEND

- | | |
|---|--|
| 1 | EXISTING EXTERIOR 2X4 WOOD FRAMED WALL WITH EXTERIOR FINISH TO REMAIN. PROTECT IN PLACE. |
| 2 | EXISTING INTERIOR 2X4 WOOD FRAMED WALL TO REMAIN. PROTECT IN PLACE. |

KEYNOTES

- | | |
|---|--|
| 1 | EXISTING WINDOWS TO REMAIN. SEE SHEET A2.3 FOR WINDOW WIDTH DIMENSIONS. ALL WINDOW HEIGHTS ARE 4'-0" |
| 2 | EXISTING DOORS TO REMAIN |
| 3 | EXISTING SPIRAL STAIRCASE TO REMAIN |
| 4 | NOT USED |
| 5 | 42" HIGH GUARDRAIL, SEE DETAIL 4 AD.1 |
| 6 | EXISTING BATHROOM FIXTURES TO REMAIN |
| 7 | NOT USED |
| 8 | WATERPROOF DECK COATING SYSTEM BY PL-1 DECK OR EQ. CLASS A, SLOPE TO FLOOR DRAIN TO GUTTER SYSTEM |

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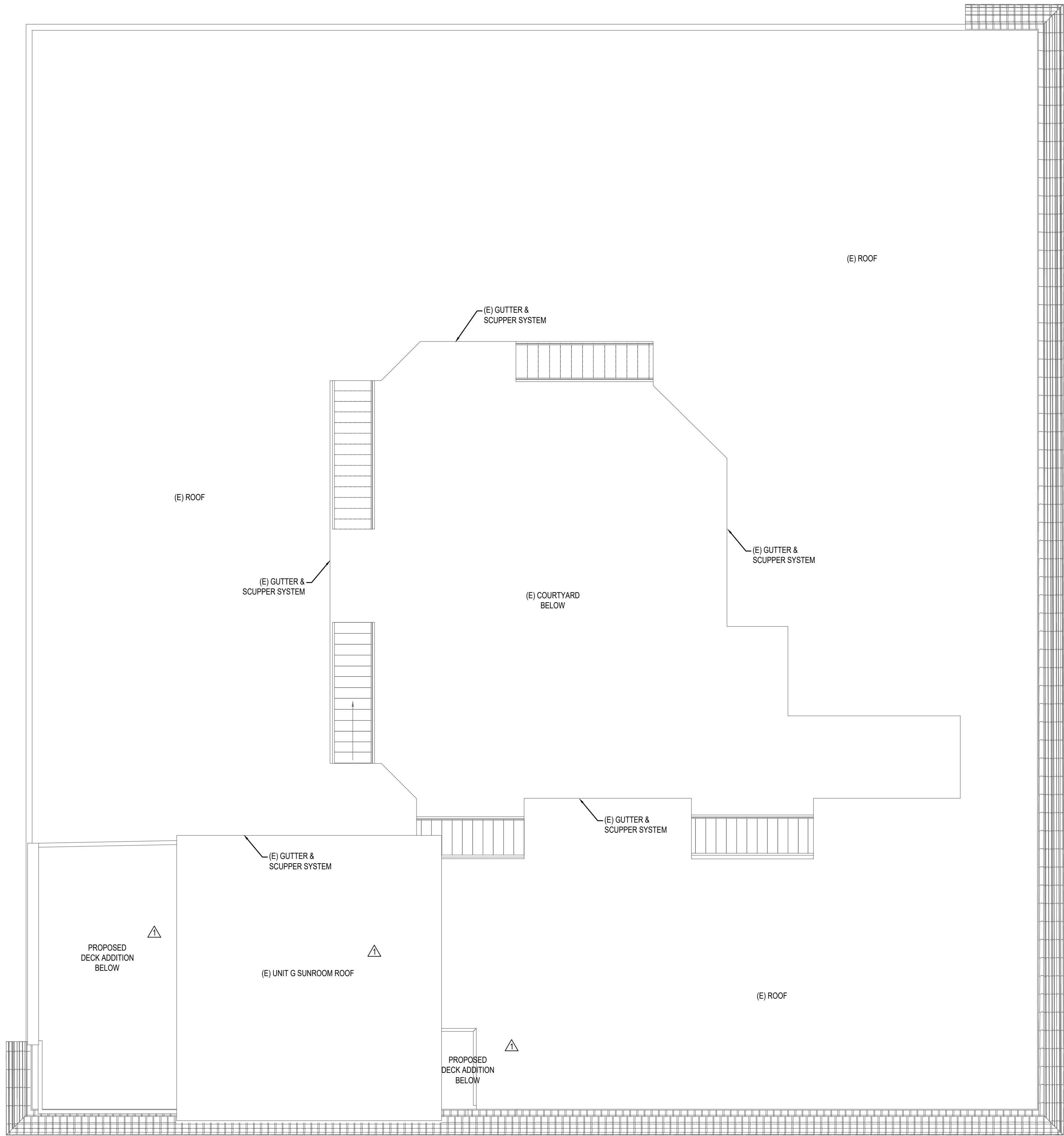


151 S MYERS ST - UNIT G DECK ADDITION
151 S MYERS ST
OCEANSIDE, CA

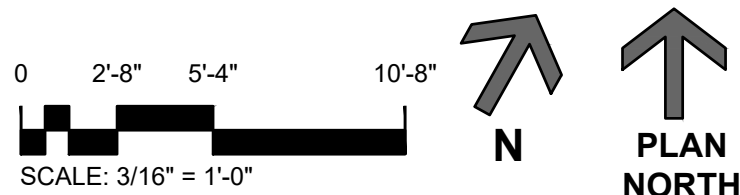
Date: 11-2-2023
Project: 151 S MYERS ST - UNIT G
File: A2.3
Revisions:
CITY COMMENTS #1 - 01-26-24
CITY COMMENTS #2 - 08-20-24

Sheet Title:
ENLARGED
FLOOR PLANS

Sheet Number:
A2.3



1 EXISTING ROOF PLAN



- ROOF NOTES**
- ALL ROOF MATERIALS TO BE CLASS A FIRE RATED AND TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
 - CONTRACTOR TO VERIFY AND COORDINATE WITH ALL SUBCONTRACTORS, ALL LOCATIONS AND SIZES OF ROOF OPENINGS.
 - FOR TYP. ROOF PENETRATIONS, SEE DETAIL 11 AD.1 CONTRACTOR TO VERIFY ALL LOCATIONS WITH MECHANICAL AND PLUMBING DRAWINGS
 - VERIFY THAT ALL ROOF AREAS HAVE POSITIVE DRAINAGE OF AT LEAST 1/4" / FT. PRIOR TO ROOF INSTALLATION
 - CONTRACTOR TO VERIFY ALL ROOF DRAIN DEPRESSIONS W/ "S" DRAWINGS.
 - REFER TO "S" DRAWINGS FOR ROOF FRAMING PENETRATIONS OF FIRE-RESISTIVE WALLS, FLOOR-CEILINGS AND ROOF-CEILINGS SHALL BE PROTECTED AS REQUIRED IN IBC SECTION 714.
 - PROVIDE O'HAGEN LOW PROFILE COMPOSITE SHINGLE VENTS AS REQUIRED.
 - ALL DIMENSIONS ARE TO THE FACE OF STUD OR GRIDLINE U.N.O.
 - PROVIDE METAL FLASHING AT ALL ROOF VALLEYS AS REQUIRED.
 - ATTIC VENTILATION OPENINGS SHALL BE COVERED WITH CORROSION-RESISTANT METAL MESH WITH 1/16" MINIMUM TO 1/4" MAXIMUM OPENINGS. SECTION R806.1

ROOF PLAN LEGEND

— — — EXTERIOR WALL BELOW ROOF

□ DOWNSPOUT LOCATION

NOTE: RIDGE DIMENSIONS TO TOP OF FINISH ROOFING MATERIAL. TYPICAL ALL.

NOTE: SEE SHEET 11 AD.1 FOR TYPICAL ROOF DETAILS

KEYNOTES

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151 S MYERS ST - UNIT G DECK ADDITION
151 S MYERS ST
OCEANSIDE, CA

Date:	11-2-2023
Project:	151 S MYERS ST - UNIT G
File:	A2.4
Revisions:	
△ CITY COMMENTS #1 - 01-26-24	
△ CITY COMMENTS #2 - 08-20-24	

Sheet Title:
**EXISTING
ROOF PLAN**

Sheet Number:
A2.4



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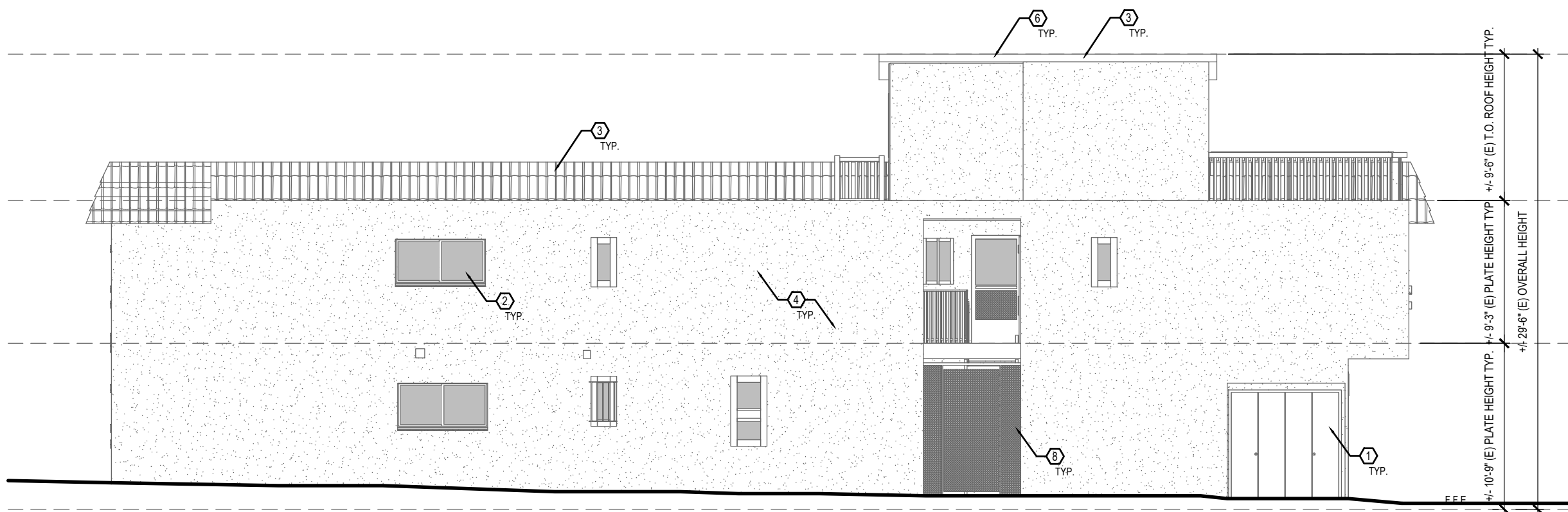


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151 S MYERS ST
OCEANSIDE, CA

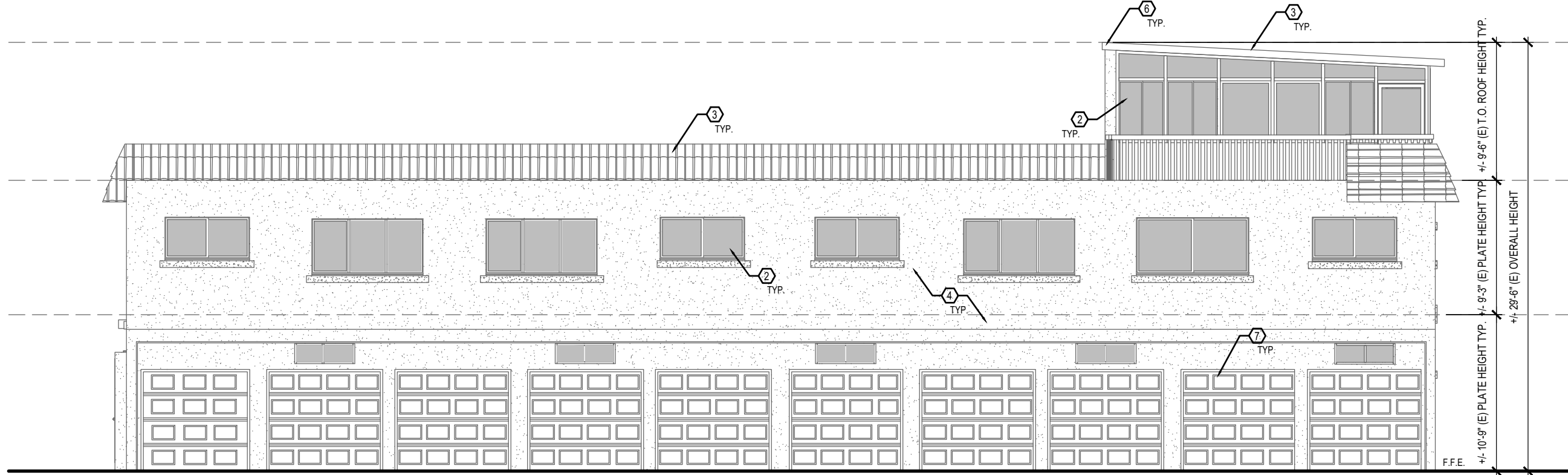
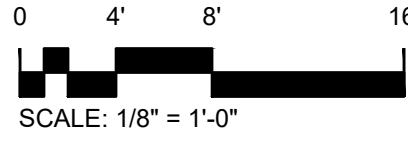
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A CITY COMMENTS #2 - 08-20-24

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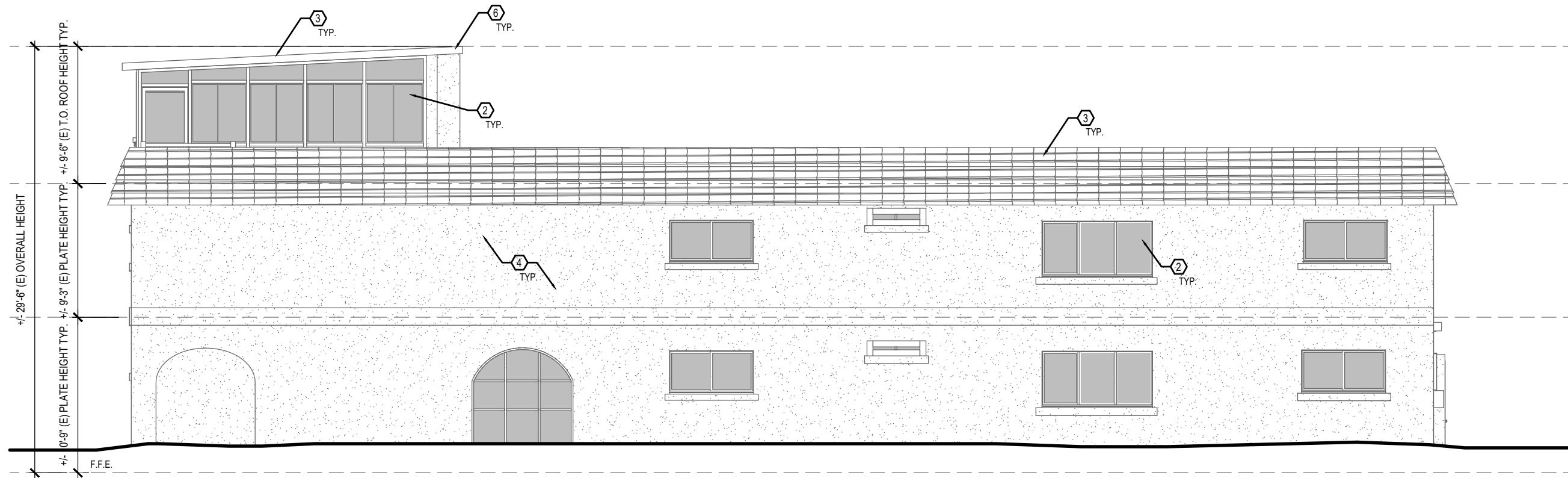
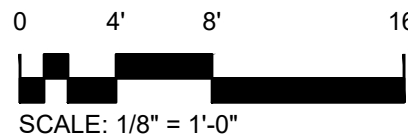
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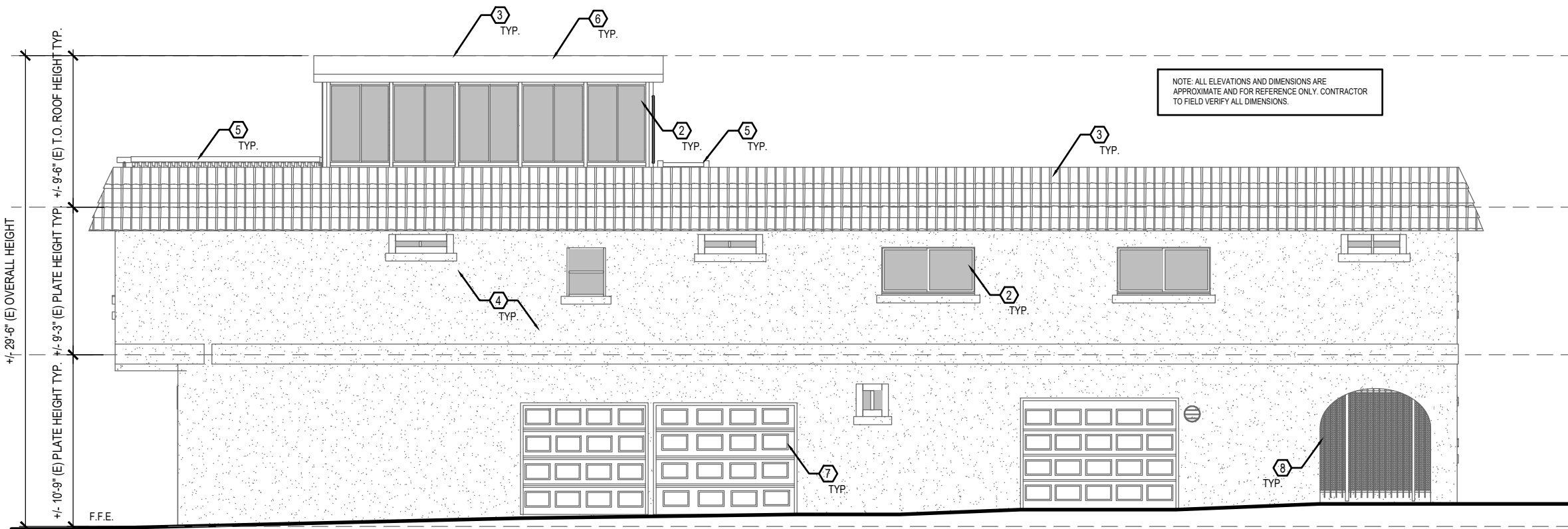
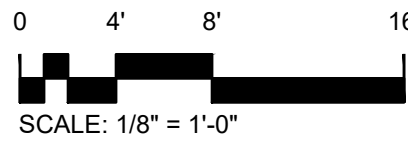
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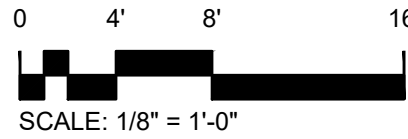
1 WEST ELEVATION



1 EAST ELEVATION



1 SOUTH ELEVATION



GENERAL NOTES

1. T.O.P. = TOP OF PARAPET ELEVATION.
2. F.F.E. = FINISH FLOOR ELEVATION.
3. ALL NOTES ARE TYPICAL.
4. ALL PAINT COLOR CHANGES TO OCCUR AT INSIDE CORNERS U.N.O.
5. ALL PAINT FINISHES ARE TO BE FLAT UNLESS NOTED OTHERWISE.
6. BUILDING HEIGHT HAS BEEN ESTABLISHED BASED ON THE NEW PAD ELEVATION ESTABLISHED FOR THE OCEANSIDE MUNICIPAL CODE.
7. ALL SEISMIC STRAPS AND EXPOSED STRUCTURAL HARDWARE TO BE COVERED WITH SELF ADHERED FLASHING PRIOR TO THE APPLICATION OF WATER-RESISTIVE BARRIER.
8. FOR WALLS NOT SHOWN ON THESE ELEVATIONS, CONTINUE THE ADJACENT WALL FINISHES WHERE OBSERVED.

COLOR/ MATERIAL LEGEND

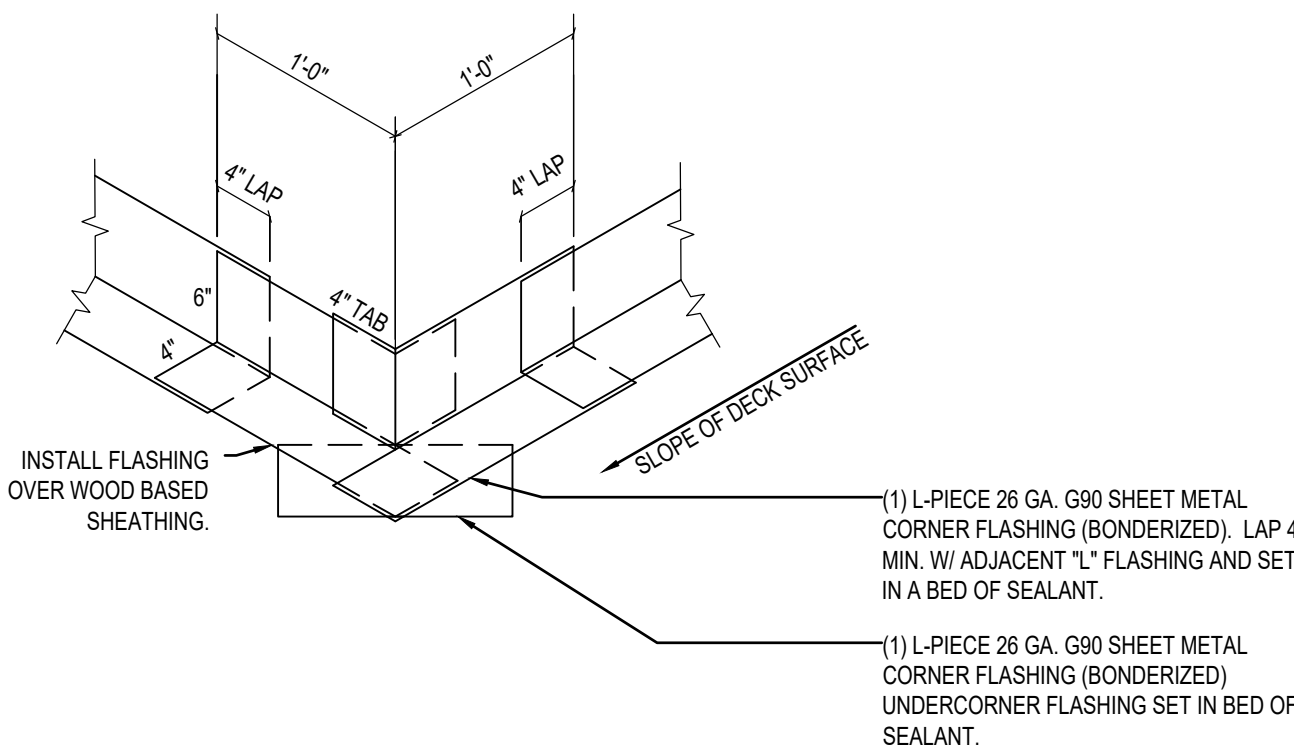
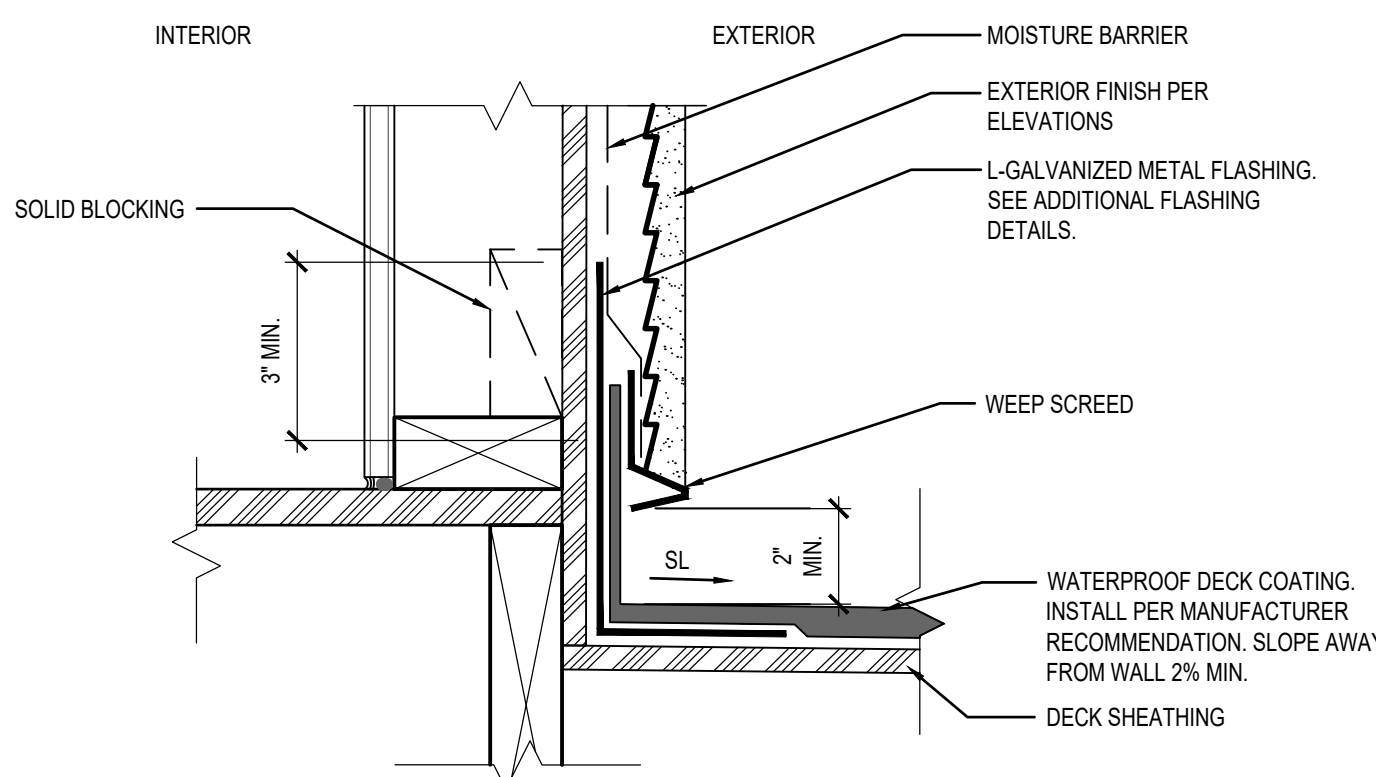
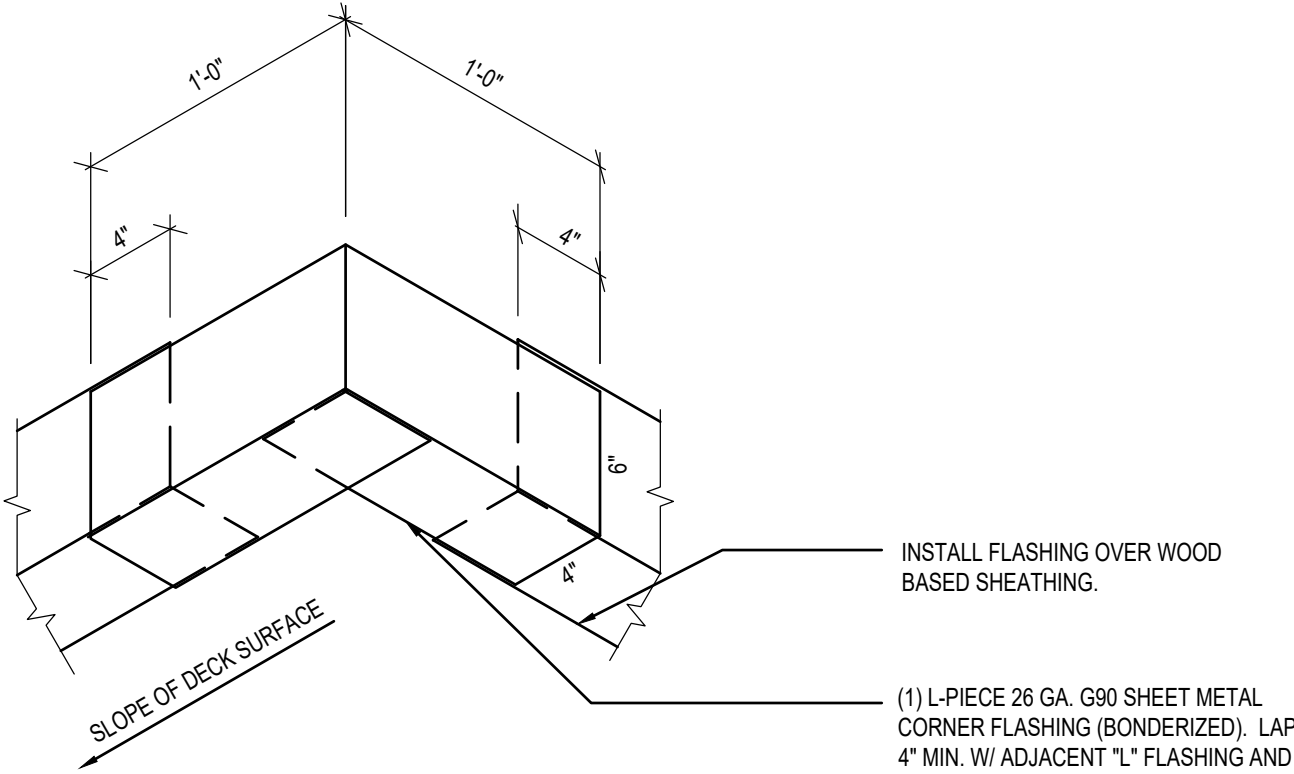
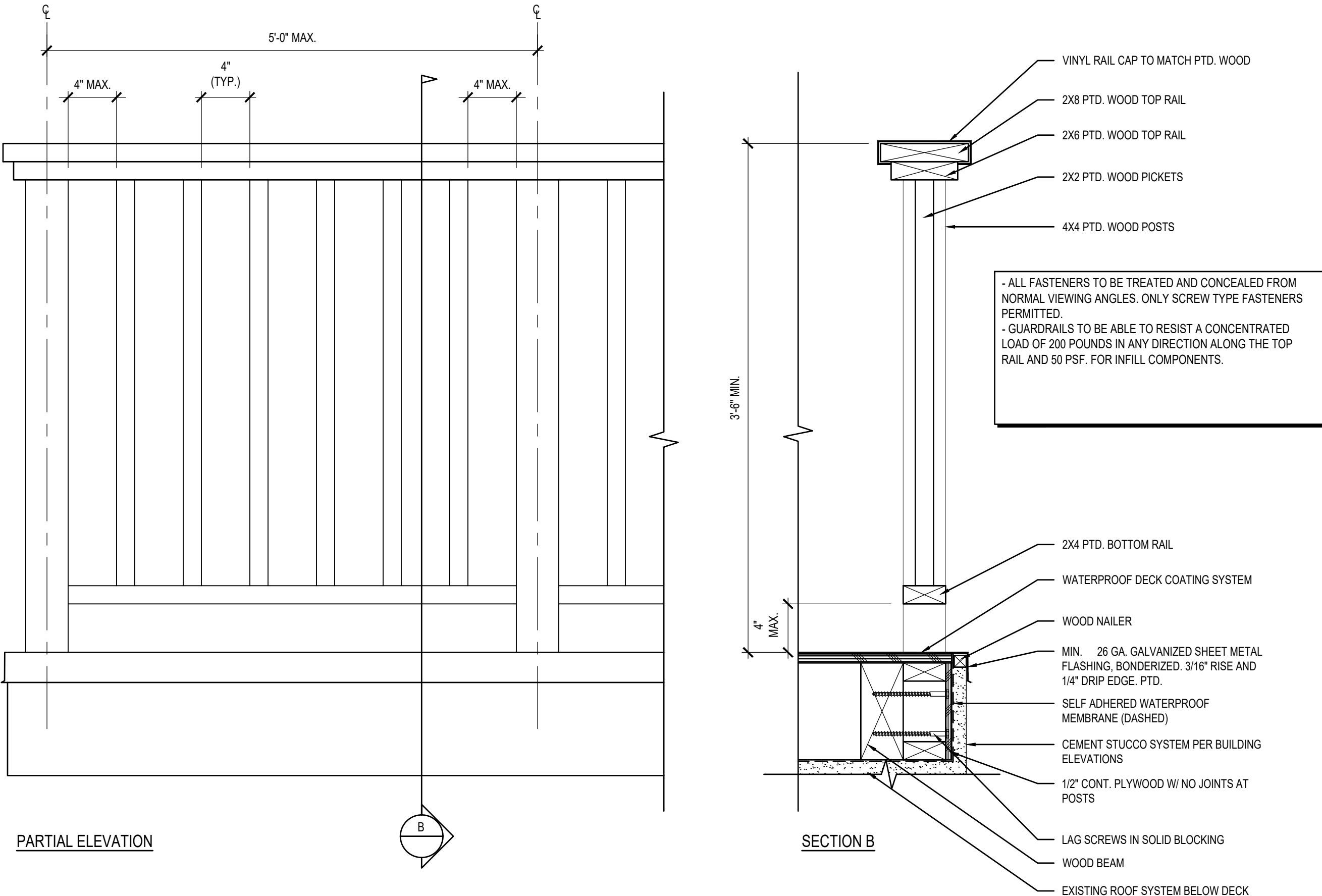
COLOR/ MATERIAL SCHEDULE

NOTE: ALL REFERENCES ARE TYPICAL.

KEYNOTES

NOTE: ALL KEYNOTES ARE TYPICAL.

- 1 EXISTING DOORS TO REMAIN
- 2 EXISTING WINDOWS TO REMAIN
- 3 EXISTING ROOF TO REMAIN
- 4 EXISTING FINISHES TO REMAIN
- 5 PROPOSED DECK ADDITION
- 6 EXISTING UNIT G SUNROOM AREA TO REMAIN
- 7 EXISTING GARAGE DOORS TO REMAIN
- 8 EXISTING GATES TO REMAIN

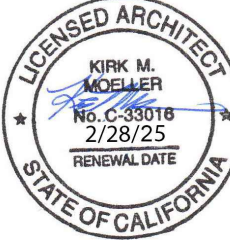
			 INSTALL FLASHING OVER WOOD BASED SHEATHING. (1) L-PIECE 26 GA. G90 SHEET METAL CORNER FLASHING (BONDERIZED). LAP 4" MIN. W/ ADJACENT "L" FLASHING AND SET IN A BED OF SEALANT. (1) L-PIECE 26 GA. G90 SHEET METAL CORNER FLASHING (BONDERIZED) UNDERCORNER FLASHING SET IN BED OF SEALANT. NOTE: SEALANT REQUIRED TO BE FULL LENGTH OF ALL HORIZONTAL AND VERTICAL LEGS OF THE FLASHING AT ALL LAPS AND JOINTS.	OUTSIDE CORNER DECK FLASHING	N.T.S.	1
		 INTERIOR EXTERIOR MOISTURE BARRIER EXTERIOR FINISH PER ELEVATIONS L-GALVANIZED METAL FLASHING. SEE ADDITIONAL FLASHING DETAILS. WEEP SCREED 3" MIN. 2" MIN. SL WATERPROOF DECK COATING. INSTALL PER MANUFACTURER RECOMMENDATION. SLOPE AWAY FROM WALL 2% MIN. DECK SHEATHING NOTE: SEALANT REQUIRED TO BE FULL LENGTH OF ALL HORIZONTAL AND VERTICAL LEGS OF THE FLASHING AT ALL LAPS AND JOINTS.	WALL AT EXTERIOR DECK @ STUCCO	3"=1'-0"	6	
			 INSTALL FLASHING OVER WOOD BASED SHEATHING. (1) L-PIECE 26 GA. G90 SHEET METAL CORNER FLASHING (BONDERIZED). LAP 4" MIN. W/ ADJACENT "L" FLASHING AND SET IN A BED OF SEALANT. NOTE: SEALANT REQUIRED TO BE FULL LENGTH OF ALL HORIZONTAL AND VERTICAL LEGS OF THE FLASHING AT ALL LAPS AND JOINTS.	INSIDE CORNER DECK FLASHING	N.T.S.	2
		 5'-0" MAX. 4" MAX. 4" (TYP.) 4" MAX. 3'-6" MIN. 4" MAX. PARTIAL ELEVATION SECTION B VINYL RAIL CAP TO MATCH PTD. WOOD 2X8 PTD. WOOD TOP RAIL 2X6 PTD. WOOD TOP RAIL 2X2 PTD. WOOD PICKETS 4X4 PTD. WOOD POSTS - ALL FASTENERS TO BE TREATED AND CONCEALED FROM NORMAL VIEWING ANGLES. ONLY SCREW TYPE FASTENERS PERMITTED. - GUARDRAILS TO BE ABLE TO RESIST A CONCENTRATED LOAD OF 200 POUNDS IN ANY DIRECTION ALONG THE TOP RAIL AND 50 PSF. FOR INFILL COMPONENTS. 2X4 PTD. BOTTOM RAIL WATERPROOF DECK COATING SYSTEM WOOD NAILER MIN. 26 GA. GALVANIZED SHEET METAL FLASHING, BONDERIZED. 3/16" RISE AND 1/4" DRIP EDGE. PTD. SELF ADHERED WATERPROOF MEMBRANE (DASHED) CEMENT STUCCO SYSTEM PER BUILDING ELEVATIONS 1/2" CONT. PLYWOOD W/ NO JOINTS AT POSTS LAG SCREWS IN SOLID BLOCKING WOOD BEAM EXISTING ROOF SYSTEM BELOW DECK	GUARDRAIL	1'-1/2"=1'-0"	4	

BLDG23-2172



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151 S MYERS ST - UNIT G DECK ADDITION
151 S MYERS ST
OCEANSIDE, CA

Date: 11-2-2023

Project: 151 S MYERS ST - UNIT G

File: AD.1

Revisions:

 CITY COMMENTS #1 - 01-26-24

 CITY COMMENTS #2 - 08-20-24

Sheet Title:
DETAILS

Sheet Number:
AD.1

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Pujara JADU

Calculation Date/Time: 2023-10-20T10:50:44-07:00

CF1R-PRF-01E

(Page 1 of 9)

Calculation Description: Title 24 Analysis

Input File Name: 2310-22-0559 Pujara JADU.rbd22x

GENERAL INFORMATION										
01	Project Name Pujara JADU									
02	Run Title Title 24 Analysis									
03	Project Location 151 S. Myers Street, Unit G3									
04	City	Oceanside	05	Standards Version 2022						
06	Zip code	92054	07	Software Version EnergyPro 9.2						
08	Climate Zone	7	09	Front Orientation (deg/ Cardinal) 325						
10	Building Type	Single family	11	Number of Dwelling Units 1						
12	Project Scope	Addition and/or Alteration	13	Number of Bedrooms 1						
14	Addition Cond. Floor Area (ft²)	0	15	Number of Stories 1						
16	Existing Cond. Floor Area (ft²)	386	17	Fenestration Average U-factor 0						
18	Total Cond. Floor Area (ft²)	386	19	Glazing Percentage (%) 79.02%						
20	ADU Bedroom Count	1	21	ADU Conditioned Floor Area 386						
22	Fuel Type	Natural gas	23	Occupancy U: No						

COMPLIANCE RESULTS

01	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	Building does not incorporate Special Features									

Registration Number: 423-P010191241A-000-000-0000000-0000

Registration Date/Time: 10/21/2023 04:20

HERS Provider: CHEERS

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CA Building Energy Efficiency Standards - 2022 Residential Compliance

Report Version: 2022.0.000

Report Generated: 2023-10-20 10:50:57

Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

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Calculation Description: Title 24 Analysis

Input File Name: 2310-22-0559 Pujara JADU.rbd22x

ENERGY USE SUMMARY						
Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft² - yr)	Standard Design TDV Energy (EDR2) (kTDU/ft² - yr)	Proposed Design Source Energy (EDR1) (kBtu/ft² - yr)	Proposed Design TDV Energy (EDR2) (kTDU/ft² - yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	0	14.42	0	14.42	0	0
Space Cooling	0	85.68	0	85.68	0	0
IAQ Ventilation	0	5.71	0	5.71	0	0
Water Heating	0	145.25	0	145.25	0	0
Self Utilization/Flexibility Credit						
Efficiency Compliance Total	0	251.06	0	251.06	0	0
Photovoltaics		0		0		
Battery				0		
Flexibility						
Indoor Lighting	0	13.92	0	13.92		
Appl. & Cooking	0	116.82	0	116.82		
Plug Loads	0	98.53	0	98.53		
Outdoor Lighting	0	2.29	0	2.29		
TOTAL COMPLIANCE	0	482.62	0	482.62		

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(Page 3 of 9)

Calculation Description: Title 24 Analysis

Input File Name: 2310-22-0559 Pujara JADU.rbd22x

ENERGY USE INTENSITY				
	Standard Design (kBtu/ft² - yr)	Proposed Design (kBtu/ft² - yr)	Compliance Margin (kBtu/ft² - yr)	Margin Percentage
Gross EU1	92.12	92.12	0	0
Net EU1	92.12	92.12	0	0

Notes

- Gross EU1 is Energy Use Total (not including PV) / Total Building Area.
- Net EU1 is Energy Use Total (including PV) / Total Building Area.

REQUIRED SPECIAL FEATURES

The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.

- NO SPECIAL FEATURES REQUIRED

HERS FEATURE SUMMARY

The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry

- Indoor air quality ventilation
- Kitchen range hood
- Verified heat pump rated heating capacity

BUILDING - FEATURES INFORMATION

01	02	03	04	05	06	07
Project Name	Conditioned Floor Area (ft²)	Number of Dwelling Units	Number of Bedrooms	Number of Zones	Number of Ventilation Cooling Systems	Number of Water Heating Systems
Pujara JADU	386	1	1	1	0	1

ZONE INFORMATION

01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Status
Conversion to JADU 3rd Fl	Conditioned	New HVAC1	386	8.5	DHW Sys 1	Existing

Registration Number: 423-P010191241A-000-000-0000000-0000

Registration Date/Time: 10/21/2023 04:20

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Calculation Description: Title 24 Analysis

Input File Name: 2310-22-0559 Pujara JADU.rbd22x

01	02	03	04	05	06	07	08	09	10	11
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window and Door Area (ft2)	Tilt (deg)	Wall Exceptions	Status	Verified Existing Condition
(E) 325 Wall	Conversion to JADU 3rd Fl	Default Wall Prior 1978:	325	Front	186.8	0	90	none	Existing	No
(E) 55 Wall	Conversion to JADU 3rd Fl	Default Wall Prior 1978:	55	Left	190.6	107.1	90	none	Existing	No
(E) 145 Wall	Conversion to JADU 3rd Fl	Default Wall Prior 1978:	145	Back	166	81	90	none	Existing	No
(E) 235 Wall	Conversion to JADU 3rd Fl	Default Wall Prior 1978:	235	Right	190.6	116.9	90	none	Existing	No
Interior Floor	Conversion to JADU 3rd Fl	Default Wall Prior 1978-1:	n/a	n/a	386	0	n/a		Existing	No

OPAQUE SURFACES - CATHEDRAL CEILINGS

01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Zone	Construction	Azimuth	Orientation	Area (ft²)	Skylight Area (ft²)	Roof Rise [x in 12]	Roof Reflectance	Roof Emissance	Cool Roof	Status	Verified Existing Condition	Existing Construction
(E) Roof No Attic	Conversion to JADU 3rd Fl	Default Roof Prior 1978 N	0	n/a	386	0	1	0.1	0.85	No	Existing	No	

FENESTRATION / GLAZING

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
(E) Door	Window	(E) 55 Wall	Left	55			1	21.1	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen	Existing	No

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FENESTRATION / GLAZING															
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading	Status	Verified Existing Condition
(E) Window	Window	(E) 55 Wall	Left	55			1	66	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen	Existing	No
(E) Window 2	Window	(E) 55 Wall	Left	55			1	20	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen	Existing	No
(E) Window 3	Window	(E) 145 Wall	Back	145			1	81	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen	Existing	No
(E) Door 2	Window	(E) 235 Wall	Right	235			1	21.1	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen	Existing	No
(E) Window 4	Window	(E) 235 Wall	Right	235			1	72.2	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen	Existing	No
(E) Window 5	Window	(E) 235 Wall	Right	235			1	23.6	0.55	Table 110.6-A	0.67	Table 110.6-B	Bug Screen	Existing	No

OPAQUE SURFACE CONSTRUCTIONS

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
Default Wall Prior 1978-	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-0	None / None	0.361	Inside Finish: Gypsum Board Cavity / Frame: no Insul. / 2x4 Exterior Finish: 3 Coat Stucco
Default Roof Prior 1978 N	Cathedral Ceilings	Wood Framed Ceiling	2x4 @ 16 in. O. C.	R-11	None / None	0.088	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-11 / 2x4 Inside Finish: Gypsum Board

Registration Number: 423-P010191241A-000-000-0000000-0000

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Calculation Description: Title 24 Analysis

Input File Name: 2310-22-0559 Pujara JADU.rbd22x

OPAQUE SURFACE CONSTRUCTIONS

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
Default Wall Prior 1978-1	Interior Walls	Wood Framed Wall	2x4 @ 16 in. O. C.	R-0	None / None	0.277	Inside Finish: Gypsum Board Cavity / Frame: no Insul. / 2x4 Other Side Finish: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION

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

WATER HEATING SYSTEMS

01	02	03	04	05	06	07	08	09	10	11	12
Name	System Type	Distribution Type	Water Heater Name	Number of Units	Solar Heating System	Compact Distribution	HERS Verification	Water Heater Name (#)	Status	Verified Existing Condition	Existing Water Heating System
DHW Sys 1	Domestic Hot Water (DHW)	Standard	DHW Heater 1	1	n/a	None	n/a	DHW Heater 1 (1)	Existing	No	

WATER HEATERS

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

	2022 Single-Family Residential Mandatory Requirements Summary
	<i>NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information.</i> Building Envelope: § 110.6(a)1: Air Leakage. Manufactured fenestration, exterior doors, and exterior patio doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E285, or AIAA/WDMA/CSA 1011.5.24444-2011. * § 110.6(a)6: Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-1111(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 striped. § 110.8(a): Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHSGS). § 110.8(a): Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g). § 110.8(b): 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 §10-110 when the installation of a cool roof is specified on the CFSR. § 110.8(b): 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 Table 150.1-A or B. § 150.0(d): Slab Edge Insulation. Minimum R-19 insulation in raised wood framing floor or 0.037 maximum U-factor. * § 150.0(f): Vapor Retarder. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facing, 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 or 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 I 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(h): Fenestration Products. Fenestration, including awnings, 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, Decorative 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 light-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 Conditioning, 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 the cut-off 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 (EACS) 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. § 110.3(c)6: Isolation Valves. Instantaneous water heater heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

5/6/22

	2022 Single-Family Residential Mandatory Requirements Summary
§ 150.0(s):	Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with backed up capacity of 60 amps or more and four or more ESS supplied branch circuits, or 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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§ 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 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(i)1:	Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be installed as specified in § 909.11 of the California Plumbing Code. *
§ 150.0(i)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(j)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(j)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 RAT), or by a listing agency that is approved by the executive director.
	Ducts 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.
	CMC Compliance. All air-distribution system ducts and plenums must meet CMC §§ 601 D-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 spaces 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 1/4". 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 these spaces must not be compressed. *
§ 150.0(m)1:	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 duct bands.
§ 150.0(m)2:	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)3:	Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers.
§ 150.0(m)6:	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. Dampers must be protected from damage due to sunlight, 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 resistant 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(n)13:	Space Conditioning System Airflow Rate and Fan Efficiency. 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 or pressure probe in the supply plenum. Airflow must be a 350 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.45 watts per CFM for gas furnace air handlers and ≤ 0.58 watts per CFM for all others. Small duct high velocity systems must provide an airflow a 250 CFM per ton of nominal cooling capacity, and an air-handling unit fan efficacy ≤ 0.62 watts per CFM. Field verification testing is required in accordance with Reference Residential Appendix RA3.3. *
	Ventilation and Indoor Air Quality:
§ 150.0(o)1:	Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1. *
§ 150.0(o)1B:	Central Fan Integrated (CFI) Ventilation Systems. Continuous operation of CFI air handlers is not allowed to provide the whole-dwelling unit ventilation airflow required per §150.0(o)1C. A motorized damper(s) must be installed on the ventilation duct(s) that prevents all airflow through the space conditioning duct system when the damper(s) is closed and/uncontrolled per §150.0(o)1B1&kv. CFI ventilation systems must have controls that track outdoor air ventilation run time, and either open or close the motorized damper(s) for compliance with §150.0(o)1C.
§ 150.0(o)1C:	Whole-Dwelling Unit Mechanical Ventilation for Single-Family Detached and townhouses . Single-family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, occupiable spaces, public garages, or commercial spaces must have mechanical ventilation airflow specified in § 150.0(o)1C-H.
§ 150.0(o)1G:	Local Mechanical Exhaust. Kitchens and bathrooms must have local mechanical exhaust; nonenclosed kitchens must have demand-controlled exhaust system meeting requirements of §150.0(o)1G1&v. All enclosed kitchens and bathrooms can use demand-controlled or continuous exhaust meeting §150.0(o)1G1&v. Airflow must be measured by the installer per §150.0(o)1Gv, and rated for sound per §150.0(o)1Gw. *
§ 150.0(o)1H&v:	Airflow Measurement and Sound Ratings of Whole-Dwelling Unit Ventilation Systems. The airflow required per § 150.0(o)1C must be measured by using a low flow, flow grid, or other airflow measuring device at the fan's inlet or outlet terminals/grilles per Reference Residential Appendix RA3.7. Whole-Dwelling unit ventilation systems must be rated for sound per ASHRAE 62.2 § 7.2 at no less than the minimum airflow rate required by §150.0(o)1C.
§ 150.0(o)2:	Field Verification and Diagnostic Testing. Whole-Dwelling Unit ventilation airflow, vented range hood airflow and sound rating, and HRV and ERV fan efficacy must be verified in accordance with Reference Residential Appendix RA3.7. Vented range hoods must be verified per Reference Residential Appendix RA3.7.4.3 to confirm if it is rated by HVI or AHAM to comply with the airflow rates and sound requirements per §150.0(o)1G.
	Pool and Spa Systems and Equipment:
§ 110.4(a):	Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting; a permanent weatherproof plate or card with operating instructions; and must not use electric resistance heating. *
§ 110.4(b)1:	Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating.
§ 110.4(b)2:	Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover.
§ 110.4(b)3:	Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch that will allow at pumps to be set or programmed to run only during off-peak electric demand periods.
§ 110.5:	Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light.
§ 150.0(p):	Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, flow rate, piping, filters, and valves. *
	Lighting:
§ 110.9:	Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. *
§ 150.0(x)1A:	Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans, kitchen range hoods, bath vanity mirrors, and garage door openers; navigation lighting less than 5 watts; and lighting internal to drawers, cabinets, and linen closets with an efficacy of at least 45 lumens per watt.
§ 150.0(x)1B:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA6. *
§ 150.0(x)1C:	Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must not contain screw based sockets, must be airtight, and must be sealed with a gasket or caulk. California Electrical Code § 410.116 must also be met.
§ 150.0(x)1D:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the J48 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(x)1E:	Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the finished floor and do not contain a luminaire or other device shall be no more than the number of bedrooms. These boxes must be served by a dimmer, vacancy sensor control, low voltage wiring, or gas speed control.
§ 150.0(x)1F:	Lighting Integral to Exhaust Fans. Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(x).

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§ 150.0(x)1G:	Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA6. *
§ 150.0(x)1H:	Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the J48 elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires.
§ 150.0(x)1I:	Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinetry or linen closets are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided that they are rated to consume no more than 5 watts of power, emit no more than 150 lumens, and are equipped with controls that automatically turn the lighting off when the drawer, cabinet or linen closet is closed.
§ 150.0(x)2A:	Interior Switches and Controls. All forward phase cut dimmers used with LED light sources must comply with NEMA SSL 7A.
§ 150.0(x)2B:	Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems. *
§ 150.0(x)2A:	Accessible Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned on and off. *
§ 150.0(x)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(x).
§ 150.0(x)2C:	Mandatory Requirements. Lighting controls must comply with the applicable requirements of § 110.9.
§ 150.0(x)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(x)2.
§ 150.0(x)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(x)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(x)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 switch outlets must be controlled separately from ceiling-installed lighting.
§ 150.0(x)3A:	Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lot, must have a manual on/off switch and either a photocell and motion sensor or automatic time switch control or an astronomical time clock. An energy management control system that provides the specified control functionality and meets all applicable requirements may be used to meet these requirements.
§ 150.0(x)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(x)5:	Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in §§ 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0.
	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)1c).
§ 110.10(a)2:	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 50 square feet each for buildings with roof areas less than or equal to 10,000 square feet or no less than 150 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(a)1A:	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)2:	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)3:	Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the horizontal distance of the height difference between the highest point of the obstruction and the horizontal projection of the nearest point of the solar zone, measured in the vertical plane.
§ 110.10(b)4:	Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents.
§ 110.10(c):	Interconnection Pathways. The construction documents must indicate a location reserved for inverters and metering equipment and a pathway reserved for routing of conduit from the solar zone to the point of interconnection with the electrical service; and for single-family residences and central water-heating systems, a pathway reserved for routing plumbing from the solar zone to the water-heating system.
§ 110.10(d):	Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b)-(c) must be provided to the occupant.
§ 110.10(e)1:	Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps.
§ 110.10(e)2:	Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric."
	Electric and Energy Storage Ready:

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Revisions

Date 10/23/2023

Project Name:

SFR
MANDATORY
MEASURES

Sheet Title:

TITLE 24

Sheet No.

T24-2