

FIRE MITIGATION MEASURES: FIRE SPRINKLERS SHALL BE INSTALLED IN THE ATTIC SPACE, SYSTEM DESIGN WILL REQUIRE A FOUR (4) HEAD CALCULATION FOR THE SPRINKLER DESIGN. THE FOUR HEAD CALCULATION MUST HAVE A MINIMUM .05 DENSITY DESIGN, QR AND INTERMEDIATE TEMPERATURE HEADS; THE HEADS MAY BE OF A SMALL ORIFICE TYPE SUCH AS 3/8 OR 7 /16. LISTED DOMESTIC DEMAND SHUTOFF VALVES MAY BE USED TO TRY TO MINIMIZE UPGRADING METER SIZES WHERE POSSIBLE. COPPER PIPING IS REQUIRED IN THE ATTICS; CPVC WILL ONLY BE PERMITTED IN THE ATTIC IF LISTED HEADS ARE USED TO PROTECT PIPING IN ACCORDANCE WITH THEIR LISTING. APPENDAGES AND PROJECTIONS ATTACHED TO EXTERIOR FIRE—RESISTIVE WALLS, SHALL BE CONSTRUCTED TO MAINTAIN THE SAME FIRE—RESISTANT STANDARDS AS THE EXTERIOR WALLS OF THE STRUCTURE. THE EXTERIOR WALLS OF THE STRUCTURE. THE EXTERIOR SURFACE OR CLADDING SHALL MEET SECTION 707A.3.1 WHEN TESTED IN ACCORDANCE WITH ASTM E2707 AS THE EXTERIOR SURFACE OR CLADDING SHALL BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12—7A1. THE ROOF SHALL BE TYPE "A" AND COMPLY WITH ASTM D 3909 FOR UNDERLAYMENTS INSTALLED OVER THE COMBUSTIBLE DECKING. SOLAR PANEL, ACCESSORIES WITH ATTACHMENT ASSEMBLY SHALL HAVE THE SAME CLASS "A" RATING AS ROOF ALL WINDOW ASSEMBLIES SHALL EXCEED THE CBC7A, CRC337 REQUIREMENTS RATING AS ROOF ALL WINDOW ASSEMBLIES SHALL EXCEED THE CBC7A, CRC337 REQUIREMENTS BY HAVING BOTH INNER AND OUTER TEMPERED PLATE GLASS. GARAGE DOOR SEAL MUST PREVENT EMBER INTRUSION PER 708A.4 EXTERIOR WINDOWS, SKYLIGHTS AND EXTERIOR GLAZED DOOR ASSEMBLY REQUIREMENTS SHALL MEET 708A.2.1 THE EXTERIOR DOOR ASSEMBLY SHALL HAVE A FIRE—RESISTANCE RATING SHALL MEET NFPA 252. EXTERIOR DOORS SHALL COMPLY TO 708A.3. EXTERIOR GLAZED DOOR ASSEMBLIES SHALL COMPLY WITH SECTION 2406 SAFETY GLAZING, OR HAVE A FIRE—RESISTANCE RATING OF NOT LESS THAN 20 MINUTES WHEN TESTED ACCORDING TO NFPA 257, OR BE TESTED TO MEET THE PERFORMANCE REQUIREMENTS OF SFM STANDARD 12—7A—2 AND FOR EXTERIOR DOOR GLAZING. GLAZING IN EXTERIOR DOORS SHALL COMPLY WITH SECTION 708A.3.1 AND 708A.2.1. GENERAL \bigcirc THIS PROJECT IS LOCATED IN A VERY HIGH FIRE SEVERITY ZONE "SRA" WITHIN STATE RESPONSIBILITY AND REQUIRES AN PREAPPROVED PR 125 SR#285412 PRIOR TO ISSUING A SITE PLAN "P 160" SR #284008 SEE SHEET A-2 FOR EXISTING FIRE HYDRANT LOCATIONS OFF—SITE ALL CONSTRUCTION PRINCIPLES COUPLED TO FIRE MITIGATION MEASURE, NTERLOCKING FUEL TREATMENT, AND PROGRESSIVE LANDSCAPE DESIGN SHALL MEET PER CBC7A AND CRC 337. REFER TO INFORMATION GENERATED BY FIREWISE OR FIRE ASSESMENT/FIRE PREVENTION PLANNING REPORTS ALONG WITH FM SHEETS FOR LANDSCAPE FUEL MODIFICATION PLANS. ALL FIRE CODES SHALL COMPLY FROM 2019 CALIFORNIA BUILDING CODES "CBC", 2019 CALIFORNIA FIRE CODES "CFC" AND NATIONAL FIRE CODE ASSOCIATION NFPA" STANDARDS AND LOCAL AMENDMENTS INCLUDING FUEL MODIFICATIONS ROM PR 125 OCFD GUIDELINES. ENERAL 7 ASSEMBLY BEHIND 707A.3. FOR S: C BE INSTALLED IN THE ATTIC SPACE, SYSTEM DESIGN HEAD CALCULATION FOR THE SPRINKLER DESIGN. THE MUST HAVE A MINIMUM .05 DENSITY DESIGN, QR AND RE HEADS; THE HEADS MAY BE OF A SMALL ORIFICE 7/16. LISTED DOMESTIC DEMAND SHUTOFF VALVES MAY MIZE UPGRADING METER SIZES WHERE POSSIBLE. RED IN THE ATTICS; CPVC WILL ONLY BE PERMITTED IN RED IN THE ATTICS; CPVC WILL ONLY BE PERMITTED IN RED IN THE ATTICS; CPVC WILL ONLY BE PERMITTED IN CTIONS ATTACHED TO EXTERIOR FIRE—RESISTIVE WALLS, MAINTAIN THE SAME FIRE—RESISTANT STANDARDS AS LE STRUCTURE. CLADDING SHALL MEET SECTION 707A.3.1 WHEN HEASTM E2707 AS THE EXTERIOR SURFACE OR TO MEET THE PERFORMANCE REQUIREMENTS OF SFM IS PART OF THESE DOCUMENTS REFERENCE AS OCFD (REFER TO FM SHEETS) AS REQUIRES A SEPARATE PROCESS FROM OTHER COUNTY AGENCIES. RELATED FIRE CODE SECTION SHALL APPLY DEPARTMENT GLASS VENEER SHALL COMPLY WITH \bigcirc FIRE SPRINKLERS: Fire sprinklers shall be installed in the attic space, system design will require a four (4) head calculation for the sprinkler design. The four head calculation must have a minimum .05 density design, QR and intermediate temperature heads; the heads may be of a small orifice type such as 3/8 or 7/16. Listed domestic demand shutoff valves may be used to try to minimize upgrading meter sizes where possible. Copper piping is required in the attics; CPVC will only be permitted in the attic if listed heads are used to protect piping in accordance with their listing. Exterior windows, skylights and exterior glazed door assemblies shall comply with one of the following requirements: Be constructed of multipane glazing with a minimum of one tempered pane meeting the requirements of Section 2406 Safety Glazing, or Be constructed of glass block units, or Have a fire—resistance rating of not less than 20 minutes when tested according to NFPA 257, or Be tested to meet the performance requirements of SFM Standard 12—7A—2 GENERAL: C coupled to treatment, ROOF: The roof area will have one layer of minimum 72 pound (32.4 kg) mineral—surfaced, non—perforated cap sheet complying with ASTM D 3909 installed over the combustible decking. NOTE: REFER TO GN-1 SHEET FOR BREAKDOWN CODES FROM CHAPTER INFORMATION BELOW IS A HIGHLIGHT REPORT. MITIGATION MEASURES: Appendages and projections attached to exterior fire—resistive walls, shall be constructed to maintain the same fire—resistant standards as the exterior w of the structure. WINDOWS: All window assemblies CBC7A, CRC337 requirements by outer tempered plate glass. 708A.2.1 Exterior windows, so GENERAL CBC7A and CRC3337 construction principles o mitigation measure, interlocking fuel and progressive landscape design. skylights and exterior glazed FOR shall 6 having FURTHER 7A SECTION T FROM FIRE exceed the g both inner MITIGATION AS STUDY accordance with ASTM E2707 707A.3.2 Extent of Exterior Wall Covering 707A.4 Open Roof Eaves 707A.6 Exterior Porch Ceilings 707A.7 Floor Projections 707A.8 Underside of Appendages 707A.10 Conditions of acceptance wher accordance with ASTM E2957 708A.2.1 Exterior plazing 705A.1 Roofing General 705A.2 Roof Coverings 705A.3 Roof Valleys 705A.4 Roof Gutters 706A.1 Vents General 704A.3 Conditions of acceptance for ignition-resistant material tested in accordance with ASTM E84 or UL 723 704A.4 Alternate methods for determining ignition-resistant material 705A.1 Roofing General construction 703A.7 Standards of Quality 704A.2 Ignition-Resistant 703A.4 Labeling 703A.5 Weathering and surface treatment protection 703A.5.2.1 Fire-retardant-treated wood 703A.5.2.2 Fire-retardant-treated wood shingles and shakes 703A5.3 Surface treatment protection 703A.6 Alternate for materials, design, tests methods of 707A.3 Exterior Walls 707A.3.1 Conditions of 706A.2 Vents Requirements 706A.3 Ventilation opening on Chapter 7A Code Secti 703A.3 Approved Agency REFER TO FUEL PROTE(MODIFICATION CTION Fire Protection Plan 2019 CBC erior Wall Covering Eaves and Roof Eave Soffits acceptance when tested E2707 the CHECK underside SET "SHEET GN-1" of. eaves ⊒. NOTE: Chapter FOR \times $\times |\times|\times|\times|\times|\times|\times$ \times \times \times \times $\times |\times |\times \times |\times |\times |$ $|\times|\times|\times|$ N/A CODE **7**A EXPANSION CONDITIONS

708A.2.1 Exterior windows, skylights and exterior glazed door assembly requirements. Exterior windows, skylights and exterior glazed door assemblies shall comply with one of the following requirements: Be constructed of multipane glazing with a minimum of one tempered pane meeting the requirements of Section 2406 Safety or glazed skylights ply with

Glazing, or Be constructed of glass block units, or Have a Be constructed of glass block units, or Have a fire—resistance rating of not less than 20 minutes when tested according to NFPA 257, or Be tested to meet the performance requirements of SFM Standard 12—7A—2

door assembly requirer
708A.2.2 Operable Skyl
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708A.3 Exterior Doors

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708A.2. Exterior glazin 708A.2.1 Exterior Win

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708A.2.2 Structural behind structural gla Section 707A.3. al glass veneer: The wall assembly glass veneer shall comply with

709A.3 Decking Surfaces 709A.4 Requirements of ty in Section 709A.3, Item 1

of type of ignition-resistant material

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709A.4.1 Conditions of acceptance for ASTM E2632 709A.4.2 Conditions of acceptance for ASTM E2726 709A.5 Requirements for type of material in Section

709A.3,

 $\times |\times|\times|$

The exterior door shall be constructed of solid core wood that complies with the following requirements: Stiles and rails shall not be less than 13/8 inches thick. Panels shall not be less than 11/4 inches thick, except for the exterior perimeter of the panel that shall be permitted to taper to a tongue not less than 3/8 inch thick. The exterior door assembly shall have a fire—resistance rating of not less than 20 minutes when tested according to NFPA 252.

708A.3.1

Garage

The new fire test protocol necessitates the same two fire tests for the module needed for the old UL1703 and borrowed from the roof fire rating standard, UL790:

708A.3 Exterior doors: Exterior doors shall comply with one of the following: The exterior surface or cladding shall be of non combustible material.

The exterior surface or cladding shall be of ignition resistant material.

thick,

The exterior surface or cladding shall be tested to meet the performance requirements of Section 707A... when tested in accordance with ASTM E2707.

The exterior surface or cladding shall be tested to meet the performance requirements of SFM Standard 12, 7,1 d to 707A.3.1

5.1 Exterior door glazing: Glazing in exterior shall comply with Section 708A.2.1.

door seal must prevent ember intrusion

708A.4 Weather stripping: Exterior garage doors shall be provded with neoprene stripping to resist the intrusion of embers from entering through gaps between doors and door openings when visible gaps exceed 1/8 inch (3.2 mm). Weather stripping or seals shall be installed on the bottom, sides, and tops of doors to reduce gaps between doors and door openings to 1/8 inch (3.2 mm) or less. Solar panel must have the same Class A just like roof covering, plan check process assures better evaluate a solar PV system for fire performance, an update of the UL1703 was required.

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HTTP://ZenArchitect.com

| Item 7 | × | | |
|--|--------|---------|---------------------------------|
| 710A.1 Accessory Structures General | | N/A | |
| 710A.2 Accessory Structures Applicability | | N/A | |
| 710A.3 Accessory Structures Where required | | N/A | |
| 710A.3.1 Accessory Building Requirements | | N/A | |
| 710A.3.2 Attached miscellaneous structure requirements | | N/A | |
| 710A.3.3 Detached miscellaneous structure | × | | |
| Name of Community: (TOR DISTRICT) TRABUCO OAKS RESIDENTIAL OF | NTIAL | | FOOTHILL/TRABUCCO SPECIFIC PLAN |
| Zoning: R 1 SRA FIRE ZONE List the final tract and lot numbers on the line(s) below that this form is associates to: | s forr | n is as | sociates to: |

APN 84210206 COUNTY OF ORANGE Legal description: LOT 33 NORTH AND THR N LOT 31 TRACT



CONTACT TO JOHN A. 黒 SALAT Architects ABOVE:

Lake Forest, 22386 Woodgrove CA 92630 \mathcal{C} $\qquad \qquad \square$ C - 24445



OWNER/SITE ADDRESS: CONTACT: Alexander Tchourbanov 20601 Trabuco Oaks Dr, Trabuco Canyon, CA 92678 Ph 520.400.9008 Email: achurbanov@gmail.com

of law from claims arising of legal expenses associated of misuse weather directly or indirectly related for these documents to this project. Drawings are not intended as record of actual installed construction, therefore waive responsibility for discrepancies FIRE PROTECTION PLAN THOURBANOV RESIDENCE **NEW DWELLING** FIRE PROTECTION NOTES

arc hitect PH 949-235-4847 email: freeingwinds@earthlink.net zenarchitect.com

REISSUE FIRE DEPT 11-1-19 DEPT

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the following:

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buildings and miscellaneous structures specified in Section 710A shall comply only with the requirements of that section.

701A.4 Inspection and certification: Building permit applications and final completion approvals for buildings within the scope and application of this chapter shall comply with the following:

1. Building permit issuance. The local building official shall, prior to construction, provide the owner or applicant a certification that the building as proposed to be built complies with all applicable state and local building standards, including those for materials and construction methods for wildfire exposure as described in this chapter. Issuance of a building permit by the local building official for the proposed building shall be considered as complying with this section.

2. Building permit final. The local building official shall, upon completion of construction, provide the owner or applicant with a copy of the final inspection report that demonstrates the building was constructed in compliance with all applicable state and local building standards, including those for materials and construction methods for wildfire exposure as described in this chapter. Issuance of a certificate of occupancy by the local building official for the proposed building shall be considered as complying with this section.
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Prior to building permit final approval, the property shall be in compliance with the vegetation management requirements prescribed in California Fire Code Section 4906, including California Public Resources Code 4291 or California Government Code Section 51182. Acceptable methods of compliance inspection and documentation shall be determined by the enforcing agency and shall be permitted to include any of the following:

1. Local, state or federal fire authority or designee authorized to enforce vegetation management requirements
2. Enforcing agency
3. Third party inspection and certification authorized to enforce vegetation management requirements
4. Property owner certification authorized by the enforcing agency
                                                                                                                                                                                                                                                                                                                                                                                                                                              703A shall bear an identification label showing the fire test results. The shall be issued by a testing and/or inspecting agency approved by the 1. Identification mark of the approved testing and/or inspecting agency 2. Contact and identification information of the manufacturer 3. Model number or identification of the product or material 4. Pre-test weathering specified in this chapter 5. Compliance standard as described under Section 703A.7
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                                  703A.5.2 Weathering: Fire-retardant-treated wood and fire-retardant-treated and shakes shall meet the fire test performance requirements of this chapt subjected to the weathering conditions contained in the following standards, the materials and the conditions of use
                                                                                                                                                                                                                           703A.5.1 General: Material and material assemblies tested requirements of Section 703A shall maintain their fire test use, when installed in accordance with the manufacturers
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703A.2 Qualification by testing: Material and material assemblies tested in accordance with the requirements of Section 703A shall be accepted for use when the results and conditions of those tests are met. Product evaluation testing of material and material assemblies shall be approved or listed by the State Fire Marshal, or identified in a current report issued by an approved agency.
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                                                                                                                                                                                                                                                                                                                                                                                    703A.5 Weathering and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         703A.3 Approved agency: Product evaluation testing shall be performed agency as defined in Section 1702. The scope of accreditation for the shall include building product compliance with this code.
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1. Noncombustible material. Material that complies with the definition for noncombustible materials in Section 202.

2. Fire-retardant-treated wood. Fire-retardant-treated wood identified for exterior use that complies with the requirements of Section 2303.2.

3. Fire-retardant-treated wood shingles and shakes. Fire-retardant-treated wood shingles and shakes, as defined in Section 1505.6 and listed by State Fire Marshal for use as "Class B" roof covering, shall be accepted as an ignition-resistant wall covering material when installed over solid sheathing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SFM Standard 12-7A-1: Exterior Wall Siding and Sheathing. A fire resistance consisting of a 150 kW intensity direct flame exposure for a 10-minute du SFM Standard 12-7A-2: Exterior Windows. A fire resistance test standard consisting of a 150 kW intensity direct flame exposure for an 8-minute duration. SFM Standard 12-7A-3:Horizontal Projection Underside A fire resistance test consisting of a 300 kW intensity direct flame exposure for a 10-minute du SFM Standard 12-7A-4: Decking. A two-part test consisting of a heat releadeck assembly combustion test with an under deck exposure of 80 kW intensity of a deck upper surface burning ember exposure with a 12 mph wind for a 2.2lb (1kg) burning "Class A" size 12? x 12? x 2.25? (300 mm x 300 r roof test brand.

SFM Standard 12-7A-4A: Decking Alternate Method A. A heat release rate combustion test with an under deck exposure of 80 kW intensity direct flam 3-minute duration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 704A.3 Conditions of acceptance for ignition—resistant material tested in ASTM E84 or UL 723: A material shall comply with the conditions of acc and 2 below when the test is continued for an additional 20—minute per total test period of an "extended" 30—minute test period.

1. The material shall exhibit a flame spread index not exceeding 25 and evidence of progressive combustion following the extended 30—minute test 2. The material shall exhibit a flame front that does not progress more (3200 mm) beyond the centerline of the burner at any time during the test period.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Section 705A Roofing 705A.1 General: Roofs shall comply with the rec Roofs shall have a roofing assembly installed in manufacturer's installation instructions.
                                                                                                                                                                                                                                                                             705A.3 Roof valleys: Where v 0.019-inch (0.48 mm) No. 2 not less than one layer of m cap sheet complying with AS length of the valley.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    705A.2 Roof coverings: Where the roc roof decking, the spaces shall be cor be firestopped with approved material mineral-surfaced nonperforated cap s combustible decking.
                                                                                                                                      705A.4 Roof gutters: Roof guaccumulation of leaves and Section 706A Vents:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ASTM E2726/E2726M S
Structures to Burning I
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704A.1 General: The materials prescribed herein for ignition resistance requirements of this chapter.
704A.2 Ignition—resistant material: Ignition—resistant materials shall confoliation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          703A.6 Alternates for materials, design, tests and methods of construc agency is permitted to modify the provisions of this chapter for site—s accordance with Section 1.11.2.4. When required by the enforcing agen of granting modifications, a fire protection plan shall be submitted in a California Fire Code, Chapter 49.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1. The requirements in Section 704A.3 when tested in accordance with the test forth in ASTM E84 or UL 723, set forth in ASTM E84 or UL 723, 2. The test procedures and requirements set forth in SFM Standard 12-7A-5 "Ignition-Resistant Material", or 3. One of the alternative methods in Section 704A.4.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NFPA 257 Standard on Fire Test for Window and Glass Block Assemblies UL 723 Standard for Test for Surface Burning Characteristics of Building designated by the enforcing agency to be at a significant risk from wildf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ASTM E2886/E2886M Standard Test Method for Evaluating Resist the Entry of Embers and Direct Flame Impingement
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Assemblies Using a Direct Flame Impingement Exposure
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Response of Deck Materials
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for Fire Testing
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SFM Standard 12-7A-5: Ignition-resistant Material. A generic I
burning flame spread test standard consisting of an extended
723 test method as is used for fire-retardant-treated wood.
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1. Vents shall be listed to ASTM E2886 and comply with all of the following:

1. There shall be no flaming ignition of the cotton material during the Ember Intrusion Test.

2. There shall be no flaming ignition during the Integrity Test portion of the Flame Intrusion Test.

3. The maximum temperature of the unexposed side of the vent shall not exceed 662°F (350°C).

2. Vents shall comply with all of the following:

1. The dimensions of the openings therein shall be a minimum of 1/16-inch (1.6 mm) and shall not exceed 1/8-inch (3.2 mm).

2. The materials used shall be noncombustible.

Exception: Vents located under the roof covering, along the ridge of roofs, with the exposed surface of the vent covered by noncombustible wire mesh, may be of combustible materials.

3. The materials used shall be corrosion resistant.

706A.3 Ventilation openings on the underside of eaves and cornices: Vents shall not be installed on the underside of eaves and cornices.

Exceptions:

1. Vents listed to ASTM E2886 and complying with all of the following:

2. There shall be no flaming ignition of the cotton material during the Ember Intrusion Test.

3. The maximum temperature of the unexposed side of the vent shall not exceed 662°F (350°C).

3. The maximum temperature of the unexposed side of the vent shall not exceed 662°F (350°C).

3. The maximum temperature of the unexposed side of the vent shall not exceed 662°F (350°C).
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3. Vents complying with the requirements of Section 706A.2 shall be permitted to be installed on the underside of eaves and cornices in accordance with either one of the following conditions:

1. The attic space being ventilated is fully protected by an automatic sprinkler system installed in accordance with Section 903.3.1.1 or,

2. The exterior wall covering and exposed underside of the eave are of noncombustible materials, or ignition—resistant materials, as determined in accordance with SFM Standard 12—7A—5 Ignition—Resistant Material and the requirements of Section 704A.3, and the vent is located more than 12 feet (3.66 m) from the ground or walking surface of a deck, porch, patio or similar surface.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 707A.3 Exterior walls: The exterior wall covering or wall assembly shall comply with one the following requirements:

1. Noncombustible material
2. Ignition-resistant material
3. Heavy timber exterior wall assembly
4. Log wall construction assembly
5. Wall assemblies that have been tested in accordance with the test procedures for acceptance shown in Section 707A.3.1
6. Wall assemblies that meet the performance criteria in accordance with the test procedures for a 10-minute direct flame contact exposure test set forth in SFM Stance 12-7A-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         707A.3.1 Conditions of acceptance when tested in accordance with ASTM E2707 The ASTM E2707 test shall be conducted on a minimum of three test specimens and conditions of acceptance in Items 1 and 2 below shall be met. If any one of the three tests does not meet the conditions of acceptance, three additional tests shall be run. the additional tests shall meet the conditions of acceptance.

1. Absence of flame penetration through the wall assembly at any time.

2. Absence of evidence of glowing combustion on the interior surface of the assembly the end of the 70- min test.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     707A.3.2 Extent of exterior wall covering: Exterior wall coverings shall extend fron of the foundation to the roof, and terminate at 2 inch (50.8 mm) nominal solid blocking between rafters at all roof overhangs, or in the case of enclosed eaves, at the enclosure.

707A.4 Open roof eaves: he exposed roof deck on the underside of unenclosed is shall consist of one of the following:
Exceptions: The following materials do not require protections: The following materials do not require protections.

1. Solid wood rafter tails on the exposed underside of opnominal dimension of 2 inch (50.8 mm)

2. Solid wood blocking installed between rafter tails on the eaves having a minimum nominal dimension of 2 inch (50.3. Gable end overhangs and roof assembly projections beythe lower end of the rafter tails

4. Fascia and other architectural trim boards
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        707A.2 General: The following exterior c this section:

1. Exterior wall covering material
2. Exterior exposed underside of roof e
3. Exterior exposed underside of roof e
4. Exterior exposed underside of porch
5. Exposed underside of exterior porch
6. Exterior exposed underside of floor p
7. Exterior underfloor areas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Section 707A Exterior Covering
707A.1 Scope: The provisions of
methods used to resist building
resulting from small ember and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   706A.1 General: Where provided, ventilation openings for enclosed a spaces, enclosed rafter spaces formed where ceilings are applied d roof rafters, and underfloor ventilation shall be in accordance with Sections 706A.1 through 706A.3 to resist building ignition from the embers and flame through the ventilation openings.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        xterior wall architectural trim, embellishments, fascias, and gu oof or wall top cornice projections and similar assemblies oof assembly projections over gable end walls olid wood rafter tails and solid wood blocking installed betweension 2 inch (50.8 mm) nominal eck walking surfaces shall comply with Section 709A.4 only 3.3 Exterior walls: The exterior wall covering or wall assembly following requirements:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Any of the following shall be deemed to meet the assembly performance criteria of this section:

er of 5/8-inch Type X gypsum sheathing applied behind the exterior covering or the exterior side of the framing erior portion of a 1-hour fire resistive exterior wall assembly designed for exterior re including assemblies using the gypsum panel and sheathing products listed in Association Fire Resistance Design Manual
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \supset
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no flaming ignition of the cotton material during the Ember Intrusion Test
no flaming ignition during the Integrity Test portion of the Flame Intrusion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of this section shall govern the materials and construction ing ignition and/or safeguard against the intrusion of flames and short-term direct flame contact exposure.

| exterior covering materials and/or assemblies shall comply with
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707A.7 Floor projections: The exposed underside of a cantilevered floor projection where a floor assembly extends over an exterior wall shall be protected by one of the following:

1. Noncombustible material
2. Ignition—resistant material
3. One layer of 5/8—inch Type X gypsum sheathing applied behind an exterior covering on the underside of the floor projection
4. The exterior portion of a 1—hour fire resistive exterior wall assembly applied to the underside of the floor projection including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design Manual
5. The underside of a floor projection assembly that meets the performance criteria in Section 707A.10 when tested in accordance with the test procedures set forth in ASTM E2957.

6. The underside of a floor projection assembly that meets the performance criteria in accordance with the test procedures set forth in SFM Standard 12—7A—3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          707A.8 Underfloor protection: The underfloor area of elevated or overhanging build be enclosed to grade in accordance with the requirements of this chapter or the of the exposed underfloor shall consist of one of the following:

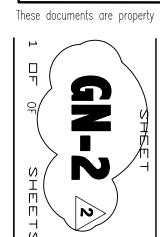
1. Noncombustible material
2. Ignition-resistant material
3. One layer of 5/8-inch Type X gypsum sheathing applied behind an exterior co the underside of the floor projection
4. The exterior portion of a 1-hour fire resistive exterior wall assembly applied to underside of the floor including assemblies using the gypsum panel and sheathing listed in the Gypsum Association Fire Resistance Design Manual
5. The underside of a floor assembly that meets the performance criteria in Sect when tested in accordance with the test procedures set forth in ASTM E2957.
6. The underside of a floor assembly that meets the performance criteria in accordance with the test procedures set forth in ASTM E2957.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1. Noncombustible material
2. Ignition-resistant material
3. One layer of 5/8-inch Type X gypsum sheathing applied behind an exterion the underside of the floor projection
4. The exterior portion of a 1-hour fire resistive exterior wall assembly applied underside of the floor including assemblies using the gypsum panel and shealisted in the Gypsum Association Fire Resistance Design Manual
5. The underside of a floor assembly that meets the performance criteria in the test procedures set forth in either of the following:
1. 5.1. SFM Standard 12-7A-3; or
2. 5.2. ASTM E2957
                                                                                                    708A.2.1 Exterior windows, skylights and exterior gla: windows, skylights and exterior glazed door assembli requirements:

1. Be constructed of multipane glazing with a minim requirements of Section 2406 Safety Glazing, or
2. Be constructed of glass block units, or
3. Have a fire-resistance rating of not less than 20 NFPA 257, or
4. Be tested to meet the performance requirements
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Section 708A EXTERIOR WINDO' 708A.1 General 708A.2 Exterior glazing: The facomply with this section:

1. Exterior windows
2. Exterior glazed doors
3. Glazed openings within exte
4. Glazed openings within exte
5. Exterior structural glass ver
6. Skylights
7. Vents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               707A.9 Underside of appendages: Woverhanging appendages shall be ethis chapter or the underside of the following:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Exception: Heavy timber structural columns and beams do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A.10 Conditions of acceptance when tested in accordance with ASTM E2957 test shall be conducted on a minimum of three test specimens and the conditions of eptance in Items 1 through 3 below shall be met. If any one of the three tests does meet the conditions of acceptance, three additional tests shall be run. All of the itional tests shall meet the conditions of acceptance. Absence of flame penetration of the eaves or horizontal projection assembly at any time. Absence of structural failure of the eaves or horizontal projection subassembly at any standard combustion of any kind at the conclusion of the 40-minute test.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADOWS, SKYLIGHTS AND I
e following exterior glazi
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enclosed to grade
the exposed under-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the enforcing agency the underside of in accordance with the requirements crefloor shall consist of one of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 f enclosed r
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shall be
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ak heat release rate of less than or equal to 25 kW/ft2 (269 kW/m2).

sence of sustained flaming or glowing combustion of any kind at the conclusion of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rial may be of any material that otherwise complies with this chapter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ance requirements of Section 709A.5 en attached exterior wall covering is esistant materials.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                shall be provided with weather stripping to
ough gaps between doors and door openings
Weather stripping or seals shall be installed
duce gaps between doors and door openings
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STE REVISION BOX POOR FOR DATE

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AS NOTED ON PLANS

n the decking surface n a Class B flame spre



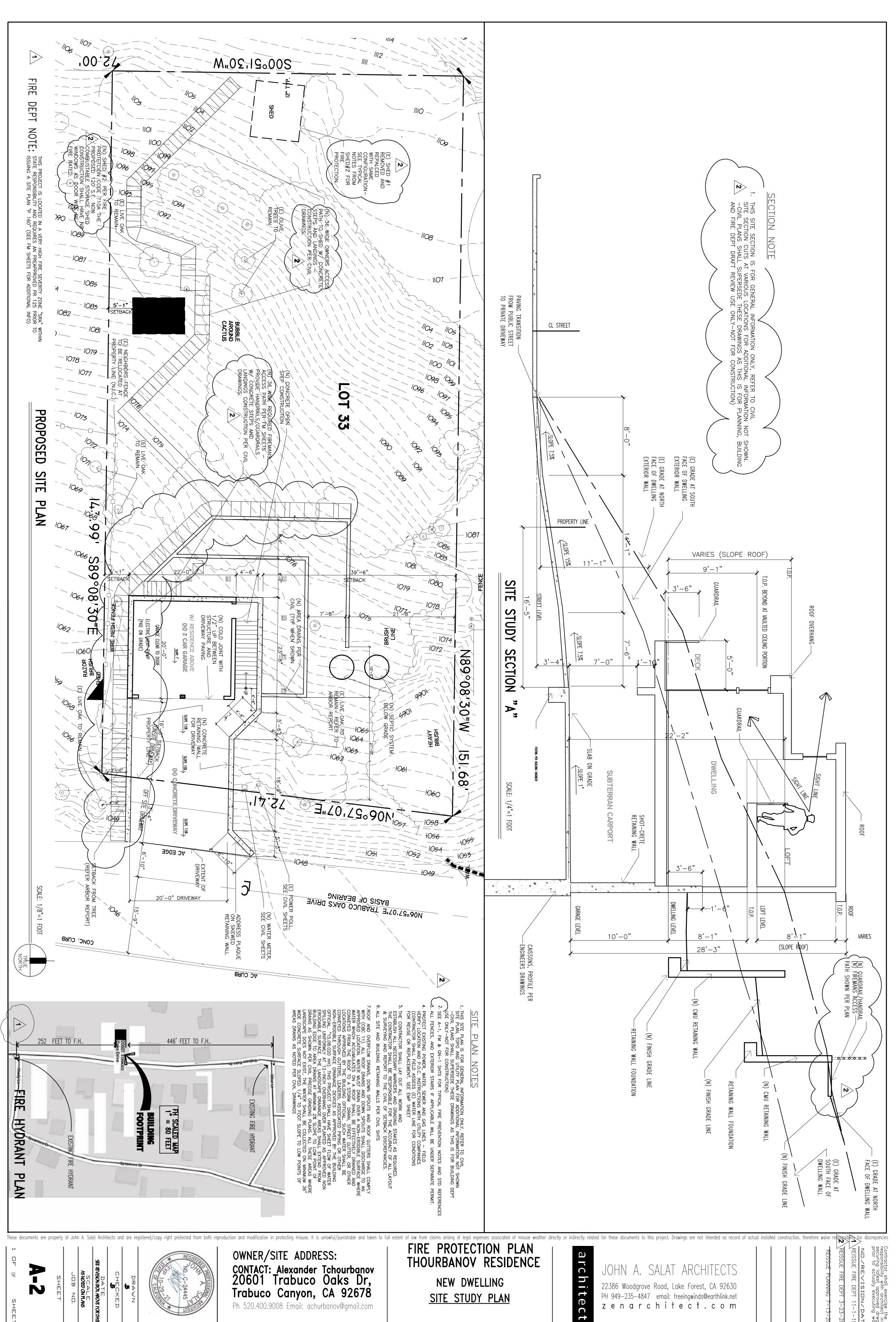
These documents are property of John A. Salat Architects and are registered/copy right protected from both reproduction and modification in protecting misuse. It is unlawful/punishable and taken OWNER/SITE ADDRESS: CONTACT: Alexander Tchourbanov 20601 Trabuco Oaks Dr, Trabuco Canyon, CA 92678 Ph 520.400.9008 Email: achurbanov@gmail.com

THOURBANOV RESIDENCE CHAPTER 7.A NOTES FIRE PROTECTION CODES

FIRE PROTECTION PLAN

architect 22386 Woodgrove Road, Lake Forest, CA 92630 PH 949-235-4847

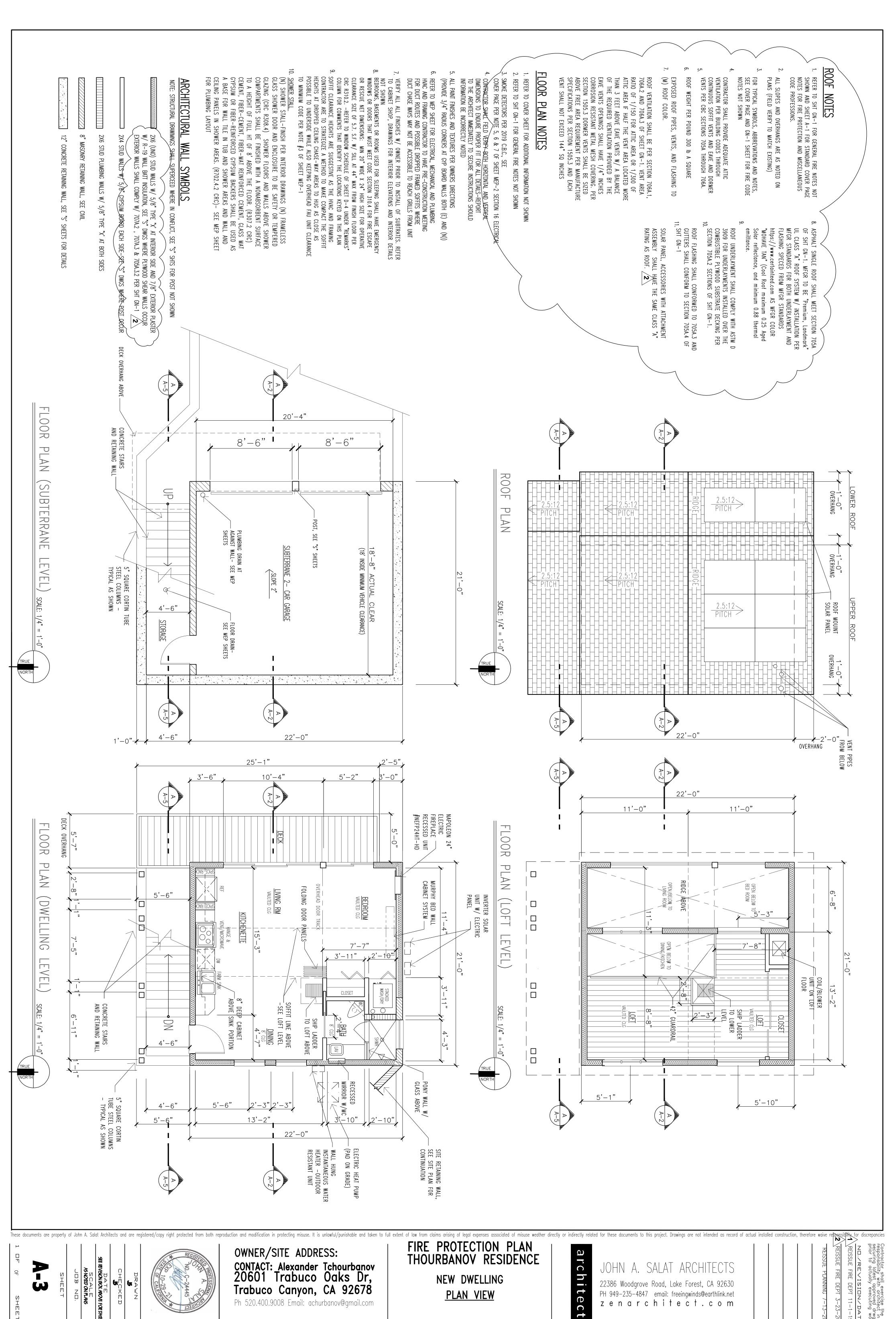
email: freeingwinds@earthlink.net zenarchitect.com



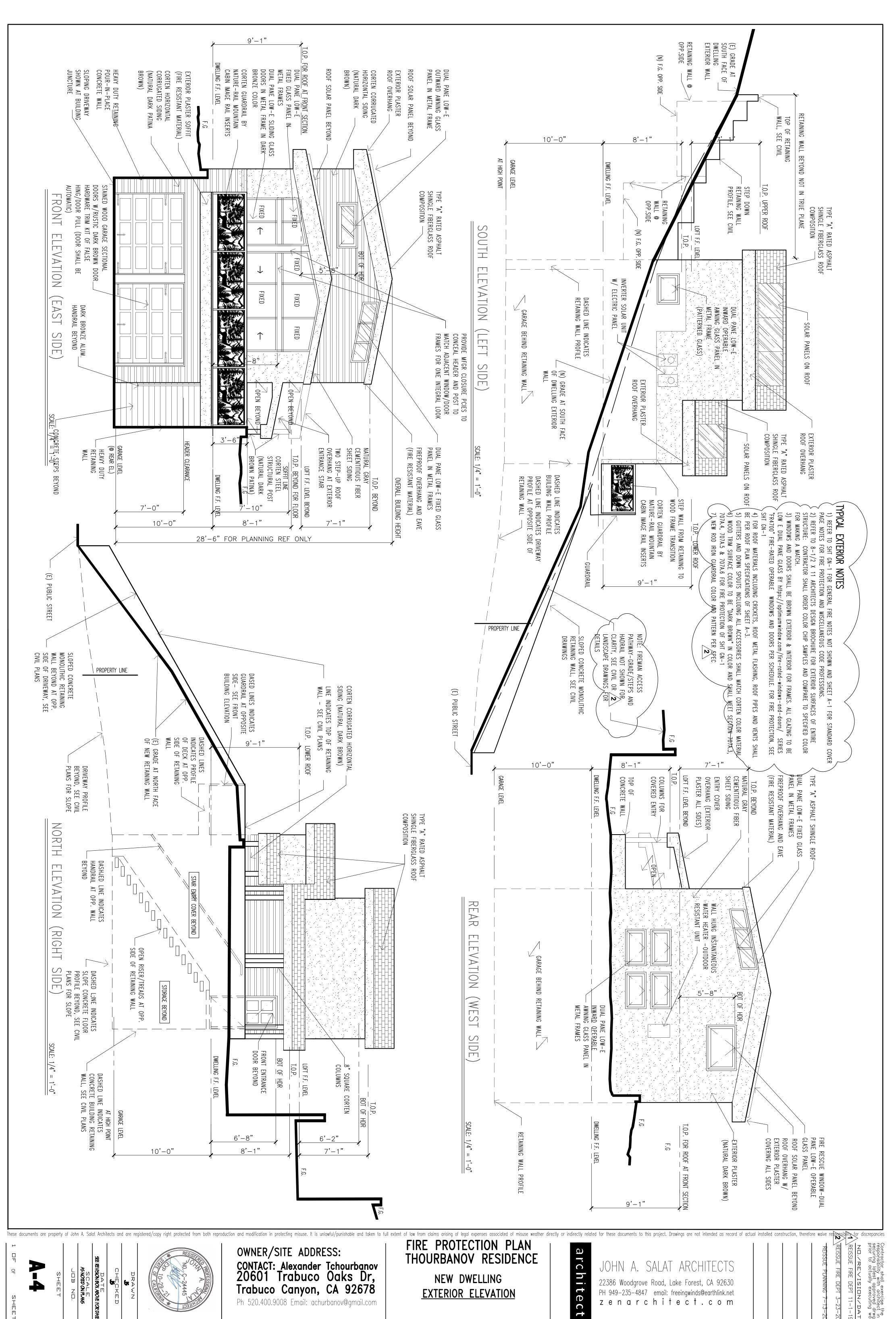


Ph 520.400.9008 Email: achurbanov@gmail.com

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