Cordillera Valley Club

Design Review Board
Meeting Agenda

CVC DRB Members: Michael Current Steve McKeever Jeff Townsend Bobby Ladd

Date: July 23, 2025

Location: Via Zoom

Project Reviews (11:00 am)

Rubin Residence - Modification to Approved Plans

322 Legacy Trail / F9 L11

Owner: Legacy CVC LLC (Alan Rubin)

Architect: Jeff Manley

Cordillera Valley Club **Design Review Board** Staff Memorandum

Legacy CVC LLC (Alan Rubin) **Owner:**

322 Legacy Trail Address:

F9 L11 Legal Address:

Architect: Jeff Manley

Allison Kent, AICP **Staff Contact:** DRB Hearing #1: March 26, 2025 DRB Hearing #2: May 2, 2025 July 23, 2025 DRB Hearing #3:

Project Description

- The applicant is proposing a modification to approved plans for the project approved on May 2, 2025.
- Changes include:
 - Reduction in the size of the deck,
 - Elimination of 2 of the columns from the previous design,
 - Roof over a portion of the deck,
 - Removal of a portion of the proposed addition at the lower level, addition of column to accommodate change,
 - Garage doors to remain as existing.



MODIFICATION TO APPROVED PLANS REVIEW - July 23, 2025 Project Review

A. Architecture Comments

- 1. At the previous meeting, the DRB stated that the number of columns for the deck needed to be reduced. Staff believes that the change of the deck design, which eliminated 2 of the 4 columns, is a positive change to the design. The DRB should provide input on the deck design.
- 2. The addition of the roof over the deck is within the building envelope and does not require a deviation from the Design Guidelines. However, staff believes that the DRB should provide input on the new roof area. The Design Guidelines state:

3.12 BALCONIES AND DECKS

Objective

 All balconies and decks shall be designed as an integral part of the architecture of the residence such that they are extensions of the home and connect the building to the site.

Balconies and above-grade decks are an important design element of a home. These features provide outdoor living space and add interest and scale to a home. Consideration should be given to incorporating roofs, balconies and above grade decks in order to protect users from the hot midday sun.

Design Considerations

- Balconies and above grade decks should be designed within the mass of the building or as an element of the building structure supported either by angled braces, by building mass below, or by substantial building elements such as stone columns that visibly tie the deck to the ground. In no case shall projecting decks or balconies be supported by narrow posts or columns.
- Projected decks on the downhill side of the building shall be tied into the existing grade, helping integrate them with the natural grade of the site.
- Support columns must have stone bases with dimensions consistent with the massing of the home.
- The underside of balconies and above grade decks shall be finished to be compatible with the building.
- Consideration should be given to protecting balconies and above grade decks from snow shedding from overhead roofs.
- 3. Generally, staff believes the other proposed modifications are consistent with the Design Guidelines and the previous approval.

B. Adjacent Neighbor Comments

The level of changes to the approved plans does not generate the requirement for neighbor notification. However, the adjacent property owners at 322 Legacy Trail were notified and provided a copy of the plans. Email dated 7-20-25 is attached.

C. Staff Recommendation

Staff recommends approval of the Modification to Approved Plans for the Rubin Residence, subject to the following conditions:

- 1. Prior to the return of the compliance deposit for this project, the applicant shall address the improvements, especially the retaining wall and site disturbance within the gully completed by the prior owner without CVC DRB approval.
- 2. The compliance deposit for this application, in addition to the compliance deposit already provided by the prior owner, shall be \$10,000.
- 3. The applicant shall address all comments of the staff memorandum and the DRB.
- 4. General Condition: Compliance with the CVC Design Guidelines and process is not a substitute for compliance with Eagle County regulations, State regulations, or Federal regulations. Additional permits and approvals may be required by these agencies prior to commencing any work on the property. The property owner and its agents are responsible for ensuring compliance with all local, state, and federal regulations.

Project Description

- The applicant is proposing the addition 615 sq. ft. and deck expansion of 750 sq. ft.
- The proposed addition is 218 sq. ft. on the lower level and 199 sq. ft. on the main level.
- The addition requires a deviation for roof overhang outside the building envelope.
- There are additional changes to the home, including windows, garage doors, deck rails, etc. Additionally, the applicant is proposing to replace the cedar shake roof with the Davinci slate product.

DEVIATION AND ADDITION REVIEW - May 2, 2025 Project Review

A. Architecture Comments

- 4. Based on the DRB's input from the previous meeting, the applicant has made the following changes:
 - 1. Created variation along the edge of the deck to reduce the boxy mass
 - 2. The stone columns have been tucked under the deck
 - 3. An aspen tree has been added on the west side and created a more robust landscape plan.
- 5. At the previous meeting, the DRB stated that the number of columns for the deck needed to be reduced. Staff believes that the variation along the edge of the deck is helpful, but the number of columns remains a concern. The DRB should provide input on the deck design.
- 6. Generally, staff believes all other proposed improvements are consistent with the Design Guidelines.

B. Site Plan and Landscape Plan Comments

- 1. The DRB agreed at the previous meeting that the issues related to the improvements completed by the previous owner without CVC DRB approval could be considered as a separate matter so the new owner can figure out how to appropriately deal with the issue. Staff believes that a condition of approval that prior to the compliance deposit related to the addition and remodel of this owner will not be refunded until the issue is resolved.
- 2. The applicant is requesting a Deviation from the Design Guidelines to allow for the roof overhang outside the building environment. In general, the scope of the roof overhang encroachment outside the building envelope are similar to others recently approved by the DRB. The DRB must make the following findings to approve a deviation:
 - a) The proposed encroachment does not affect views from surrounding homesites;
 - b) The proposed encroachment does not substantially reduce the distance between homesites on lots:

- c) The proposed encroachment allows for a more sensitive design solution by minimizing site grading, the loss of mature vegetation, and/or other considerations, and
- d) The proposed encroachment will allow for a design that is consistent with the overall design philosophy and design style for the Cordillera Valley Club.

C. Adjacent Neighbor Comments

Public notice to adjacent properties was provided on March 12, 2025. Staff has heard from neighbors who are concerned about the previous impacts to landscaping and the retaining wall that was not reviewed or approved. Staff agrees that there are visual and potentially stability issues related to the retaining wall. Neighbors were also concerned about the deck expansion and the impacts to landscaping.

D. Staff Recommendation

Staff recommends approval of the deviation request and addition to the Rubin Residence, subject to the following conditions:

- 1. Prior to the return of the compliance deposit for this project, the applicant shall address the improvements, especially the retaining wall and site disturbance within the gully completed by the prior owner without CVC DRB approval.
- 2. The compliance deposit for this application, in addition to the compliance deposit already provided by the prior owner, shall be \$10,000.
- 3. The applicant shall address all comments of the staff memorandum and the DRB.
- 4. General Condition: Compliance with the CVC Design Guidelines and process is not a substitute for compliance with Eagle County regulations, State regulations, or Federal regulations. Additional permits and approvals may be required by these agencies prior to commencing any work on the property. The property owner and its agents are responsible for ensuring compliance with all local, state, and federal regulations.

E. DRB Deliberation

DRB members Michael Current and Bobby Ladd were present. Jeff Townsend appointed Michael Current as his proxy as he was unable to attend the meeting. Steve McKeever was absent.

Jeff Manley, Architect, was present. Tom Bjornson, contractor, was also present. Neighbors Tom Stoffel and Lisa Stoffel were present.

Jeff ran through the plans. He showed the revisions to plans.

Tom Stoffel said that it looks like the plan has progressed nicely. He asked about the timeframe for construction. He asked about the timing for the mitigation of the retaining wall. He asked about the use of a living fence such as the one that has been added at the golf course. He asked if the previous removed evergreen could be replaced. He also asked about the possibility of moving the aspens impacted by the deck modification.

Tom Bjornson said that the time frame for construction was 13 months. Looking at getting the exterior done prior to winter.

Michael say that he was happy with the adjustments to the plan. He would prefer if the interior columns were different, but understood the existing constraints.

Bobby had the same comments as Michael. He thinks that the applicants have addressed their concerns with the changes to the plans.

Motion to approve to allow the applicant to address the comments.

Motion: Bobby Ladd

Second: Michael Current

Vote: 3-0 (Jeff Townsend appointed Michael Current as proxy, Steve

McKeever absent)

- 1. Prior to the return of the compliance deposit for this project, the applicant shall address the improvements, especially the retaining wall and site disturbance within the gully completed by the prior owner without CVC DRB approval.
- 2. The compliance deposit for this application, in addition to the compliance deposit already provided by the prior owner, shall be \$10,000.
- 3. The applicant shall address all comments of the staff memorandum and the DRB.
- 4. General Condition: Compliance with the CVC Design Guidelines and process is not a substitute for compliance with Eagle County regulations, State regulations, or Federal regulations. Additional permits and approvals may be required by these agencies prior to commencing any work on the property. The property owner and its agents are responsible for ensuring compliance with all local, state, and federal regulations.

DEVIATION AND ADDITION REVIEW - March 26, 2025 Project Review

A. Architecture Comments

- 1. Due to the size of the proposed deck and the proximity to the property line and ravine below, the impact of the deck expansion is dramatic. The new stone columns are 14 ft. tall. The Design Guidelines state: "Balconies and above grade decks should be designed within the mass of the building or as an element of the building structure supported either by angled braces, by building mass below, or by substantial building elements such as stone columns that visibly tie the deck to the ground. In no case shall projecting decks or balconies be supported by narrow posts or columns. Projected decks on the downhill side of the building shall be tied into the existing grade, helping integrate them with the natural grade of the site. Support columns must have stone bases with dimensions consistent with the massing of the home. The underside of balconies and above grade decks shall be finished to be compatible with the building. Consideration should be given to protecting balconies and above grade decks from snow shedding from overhead roofs." Staff recommends the DRB provide input on the proposed deck expansion.
- 2. Exterior light fixtures spec sheets shall be provided for review. Light fixtures are required to be dark-sky compliant.

B. Site Plan and Landscape Plan Comments

- 1. Under previous ownership, this home was subject to a DRB approval in 2022, which was then submitted for Technical Plan review in 2023. The approval included a third garage bay that was outside the building envelope, which was approved by the Without subsequent approval by DRB Administration, Design Review Board. revisions to the building permit were submitted to Eagle County. converted the crawl space under the third garage bay into a lower level garage for a golf cart. A very large retaining wall was also constructed without approval. The wall exceeds 4 ft. in height, which would require an engineer's stamp. This wall was not shown on either the DRB approved plans, nor the building permit. It creates a large flat surface area to access the new golf cart garage. The previous owner never requested final inspection by DRB Administration nor did they request the \$10,000 compliance deposit to be refunded. Staff believes that the retaining wall and its impacts should be mitigated, and recommends a condition that the compliance deposit from the prior owner be used towards correcting the site grading and retaining wall to return the site to an approved and acceptable design. This will require that all appropriate steps outlined in the Compliance Agreement be completed including notice to withhold and use the compliance deposit to make corrective actions by the prior owner. Staff understands that the current owner was not responsible for the construction completed without approval and this is intended to off-set costs to the new owner.
- 2. The proposed plan does not include a full landscape plan. Due to the addition and deck expansion, a landscape plan shall be provided indicating all trees to be removed. A planting plan in accordance with the Design Guidelines shall be provided for review and approval by the Design Review Board. A landscape plan was provided

- at the last minute to attempt to address some concerns, but staff believes a more robust landscape plan should be provided for review and approval by the DRB.
- 3. The applicant is requesting a Deviation from the Design Guidelines to allow for the roof overhang outside the building environment. In general, the scope of the roof overhang encroachment outside the building envelope are similar to others recently approved by the DRB. The DRB must make the following findings to approve a deviation:
 - e) The proposed encroachment does not affect views from surrounding homesites;
 - f) The proposed encroachment does not substantially reduce the distance between homesites on lots:
 - g) The proposed encroachment allows for a more sensitive design solution by minimizing site grading, the loss of mature vegetation, and/or other considerations, and
 - h) The proposed encroachment will allow for a design that is consistent with the overall design philosophy and design style for the Cordillera Valley Club.

C. Adjacent Neighbor Comments

Public notice to adjacent properties was provided on March 12, 2025. Staff has heard from neighbors who are concerned about the previous impacts to landscaping and the retaining wall that was not reviewed or approved. Staff agrees that there are visual and potentially stability issues related to the retaining wall. Neighbors were also concerned about the deck expansion and the impacts to landscaping.

D. Staff Recommendation

Staff recommends tabling of the deviation request and addition to the Rubin Residence, subject to the following conditions:

- 1. The applicant shall submit a landscaping plan reflecting existing and proposed conditions.
- 2. The applicant shall address all comments of the staff memorandum and the DRB.
- 3. General Condition: Compliance with the CVC Design Guidelines and process is not a substitute for compliance with Eagle County regulations, State regulations, or Federal regulations. Additional permits and approvals may be required by these agencies prior to commencing any work on the property. The property owner and its agents are responsible for ensuring compliance with all local, state, and federal regulations.

E. DRB Deliberation

DRB members Michael Current, Steve McKeever, and Bobby Ladd were present. Jeff Manley, Architect, was present. Alan Rubin, owner, was also present. Neighbors Tom Stoffel and Jeff Embry were present.

Jeff ran through the plans. He showed the revisions to plans. He requested that the project be broken into two parts. He showed opportunities to fix portions of the wall and add landscaping. He talked through construction access options.

Jeff Embry stated he was fine with allowing access to occur through his property as long as the new aspens could be avoided. He stated he was fine with the encroachment into the building envelope and asked about timing.

Tom Stoffel indicated that a large tree had been removed. He stated that he asked the previous owners many times about the wall but they were unresponsive.

Alan Rubin stated that the situation was unfortunate but that he was looking for solutions.

Bobby stated that not only were there a lot of columns, the columns are massive. He asked the architect to look at cantilevering them so that the number of them could be reduced. He had no issues with the addition or any of the other changes such as doors and windows. He stated that they needed to figure out a plan for the other area and that it was an unfortunate situation. He was ok with dealing with the issues separately.

Michael agreed with Bobby. He said the number of columns needed to be reduced. Otherwise, the addition itself looked good.

Steve agreed with Michael and Bobby. He stated his concern that the wall did not look like it was installed properly and had some concerns about it.

Motion to table to allow the applicant to address the comments.

Motion: Bobby Ladd

Second: Michael Current

Vote: 3-0 (Jeff Townsend absent)

From: jeff@martinmanleyarchitects.com @

Subject: Rubin: DRB meeting on 7-23-25 at 11:00AM updated drawings

Date: July 11, 2025 at 3:24 PM

To: Allison Kent allison@mpgvail.com, Alan Rubin alan@alanrubin.com, tom@bjornsonbuilders.com

Cc: john@martinmanleyarchitects.com

Allison,

Attached are the drawings with the revised south elevation that shows the entire South elevation (Proposed)

Design changes:

We are resubmitting due to refinement of the budget/value engineering efforts to simplify the project.

- The deck on the West side was reduced in north south length. This allowed one of
 the existing aspen trees to remain and screen the kitchen/deck from the west
 neighbor's view. The Kitchen does remain the same size at the existing deck
 construction and is consistent with what was previously proposed, just the deck does
 not wrap west of the kitchen.
- The smaller deck expansion (327 s.f.) is revised to have (2) stone columns support columns instead of the (4) previously shown and approved by the DRB. We thought that this was important to respond to this comment from the board. The resulting long beam will be steel with a timber wrap to mimic other structural elements of the home. This also will position the activity on the deck area further away from the west neighbor's direct sight line.
- We reviewed the west deck and listened to the comments of the west neighbor. It was found that the sun at the west deck area is very intense and we are now proposing a new timber roof structure over the new portion of deck. We looked at several options for the roof design but selected a 3:12/low pitch roof (matching the existing kitchen pitch) with a gable shape to be the least intrusive and would preserve the views best as one looks north to south along the home. A single pitch/shed resulted in a higher roof ridge and extending the dining roof was deemed too large. The roof's gable timber truss will mimic the Living room south truss, just at a lower pitch roof.
- At the Lower level the proposed closet was removed for the scope. A single stone
 column will be positioned to support the corner of the Primary bath above. We were
 able to leave some of the existing lower level wall stone veneer at this corner. The
 resulting stone column is actually starting at a higher elevation due to the existing
 grade at this corner and is consistent with the design language of the existing home.
- The garage doors are to remain as existing wood clad doors. The doors are relatively new and preserving was a good place to easily save expenses.

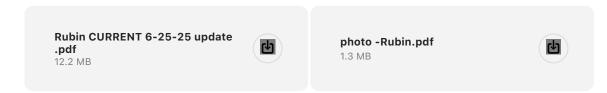
Please note that John will be representing Martin Manley architects at the Zoom DRB meeting. His email address is attached. I will be present via Zoom as possible/if possible. Thank you,

Jeffrey P Manley AIA

Martin Manley Architects

Agent:JP Manley architect LLC
PO Box 5668

Eagle Colorado 81631 970-688-0326 (Cell)



LS

From: Lisa Stoffel lisasuz@me.com
Subject: Reply re: Rubin revisions
Date: July 20, 2025 at 12:11 PM
To: Allison Kent allison@mpgvail.com
Cc: Tom Stoffel tstoff10@gmail.com

Hi Allison,

Again, thank you for forwarding the revisions to the Rubin's remodel plans as well as reaching out to see if we had any comments or questions.

While the reduced deck expansion to the west is a positive, and it is good to know the Rubin's and the architect has heard our comment regarding the solar impact of a west facing deck given our experience of living in the neighborhood, we still do not have a clear description of the exact type and scale of the landscaping that will be done. The deck expansion and the gable roof, will increase the volume of the structure and we feel that proper landscaping to scale today, not in the future, will not only help soften the mass of the structure but will offer privacy for both us and the Rubin's much like we have with our neighbor to the west, the Weissmans.

The construction management plan is also described in broad strokes. The access to the back and west of the house to complete the remodel has 3 options. Option 3 which would be to used the unapproved cart path and enter via the west side of the Rubin Residence would likely require removal of all the existing trees and scrubs without any mention of commitment of replacement. Moreover, as full time residences in our home it would be an intrusive path for us.

Additionally, the parking that has been mapped out on paper looks doable; however, as you and I know it is not how it happens in reality. Is there a plan on ensuring the execution of the construction management including the parking? Will parking be supervised by an onsite construction manager?

Again, thank you for reaching out and for all your work on remedying this and the cart path.

Best, Lisa and Tom

Lisa Stoffel 303-817-5816 Lisasuz@umich.edu

Sent from my iPad

PROPOSED DESIGN































THE RUBIN RESIDENECE 322 Legacy Trail

Cordillera Valley Club, Fliling: 9 -Legacy Trail - Lot: 11 Edwards, CO 81632

> 6-25-25 PERMIT SET

ARCHITECTURAL SHEET LIST		
Sheet #	Sheet Name	
A0.0	COVER SHEET	
A2.1	LOWER LEVEL PLAN	
A2.2	MAIN LEVEL PLAN	
A2.3	UPPER LEVEL PLAN	
A2.4	ROOF PLAN	
A3.1	EXTERIOR ELEVATIONS	
A3.2	EXTERIOR ELEVATIONS	
A3.3	EXTERIOR ELEVATIONS	
A3.4	PHOTOS OF EXISTING HOME	

VICINITY MAP:



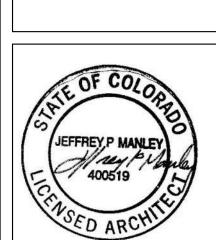
PROJECT INFORMATION

Owner: Legacy CVC LLC c/o Alan Rubin Address: 3700 SW 30TH AVE FORT LAUDERDALE, FL 33312-67 Location: 322 Legacy Trail Cordillera Valley Club Fliling: 9 Legacy Trail - Lot: 11 Edwards, CO 81632 Parcel # 1943-314-12-011

> Architect: Jeffrey P Manley, AIA Martin Manley Architects www.martinmanleyarchitects.com jeff@martinmanleyarchitects.com 970-688-0326

Struct. Eng.: To be Determined

Contractor: **Bjornson Custom Builders** Tom Bjornson PO Box 3882 Vail, CO 81658 tom@bjornsonbuilders.com 208 818 4714



Existing Smoke Detectors and Carbon Monoxide alarms must be installed IN ALL DWELLING UNITS, confirm that they are installed per 2021 IFC and fire alarm installation standards.

FIRE DEPT. SUMMARY

PROJECT DESCRIPTION

* Exterior materials will all match existing materials, colors, and textures * addition to Main level Kitchen, Primary Suite, and Lower level Bedroom

* Reroof the project to elimnate wood shake roofing and replace with

* All baths are to recieve new finishes. See interior design package * Wood flooring on Main level to be replaced with new wood floor

* RE INSTALL STEPPING STONES ON SOUTHEAST CORNER OF HOME * NO LANSCAPING AS PART OF THIS PROJECT. ONLY RESEED/RESOD

CODE SUMMARY

The CVC Design Review Board and Eagle County Building Department

M/E/P DESCRIPTION

* Heating: evaluate existing boiler to see if additional can be added to capcity

* Forced Air ducted system with Air Conditioning on Main level. Maybe 2 zone units

mounted mini splits to remain within upper level and lower level bedroom. evaluate

with one over Primary closet and one over Kitchen dropped ceiling. Existing wall

* Provide Solar Ready roof area when reroofing home with synthetic shingles

DISTURBED AREAS AND REWORK IRRIGATION AS REQUIRED.

Class of Work: Renovation/Addition, Level 2 renovation

synthetic shakes/shingles

* TOTAL NEW S.F. = 615 S.F.

* New Entry door and Side lights

*TOTAL NEW DECK AREA = 750 S.F.

This project falls under the jursidiction of:

Type of Occupancy: R-3 (Single-Family)

Type of Construction: Type V-b (Sprinklered) Levels: 2-story over walk-out basement

* Provide elec heat mat under Primary Bath floor

reuse of mini split removed from master to be reused.

* Review adding an EV charging station within garage

* Existing TOTO toilets are to remain/ be reused

The 2023 National Electrical Code Including adopted amendments

The 2021 International Residential Code (IRC 2021)

AN AUTOMATIC FIRE-SPRINKLER SYSTEM is not part of this project. System does not exist within existing home.

GENERAL NOTES

THESE CONSTRUCTION DOCUMENTS INCLUDING ARCHITECTURAL SHEETS HAVE BEEN PREPARED IN RESPONSE TO THE SPECIFIC BASIC SERVICES REQUESTED BY THE OWNER CONTEMPLATING CONTINUED INVOLVEMENT, SELECTIONS AND DECISION MAKING BY THE GENERAL CONTRACTOR AND OWNER THROUGH COMPLETION OF CONSTRUCTION.

THESE DOCUMENTS INDICATE THE SCOPE OF ARCHITECTURAL DESIGN CONCEPTS APPROVED BY THE OWNER AND INCLUDE DIMENSIONS OF THE BUILDING, THE TYPES OF STRUCTURAL SYSTEMS AND AN OUTLINE OF THE ARCHITECTURAL AND STRUCTURAL ENGINEERING ELEMENTS OF CONSTRUCTION.

THESE CONSTRUCTION DOCUMENTS PROVIDE THE SCOPE OF SERVICES AS OUTLINED IN THE AGREEMENT FOR ARCHITECTURAL SERVICES AND THEREFORE DO NOT NECESSARILY INDICATE OR DESCRIBE ALL MATERIALS REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE WORK.

IT IS THE UNDERSTANDING OF THE ARCHITECT AND ENGINEER THAT THE GENERAL CONTRACTOR SHALL FURNISH ALL WORK REQUIRED FOR PROPER COMPLETION OF THE WORK AND THAT THE WORK SHALL BE OF SOUND AND QUALITY CONSTRUCTION IN ACCORDANCE WITH INDUSTRY STANDARDS AND ALL MANUFACTURERS SPECIFICATIONS, INSTRUCTIONS, AND WARRANTY REQUIREMENTS.

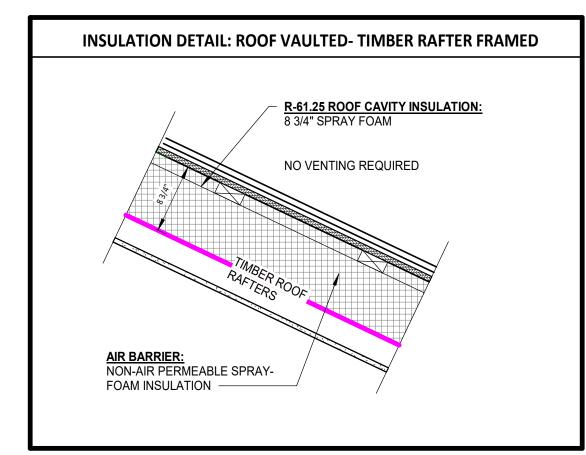
THE CONTRACTOR, BASED ON THE FOREGOING, SHALL PREPARE FOR OWNER REVIEW A REALISTIC BUDGET WITH A LATITUDE OF PRICES BASED ON ASSUMPTIONS OF SCOPE OF WORK AND OWNER

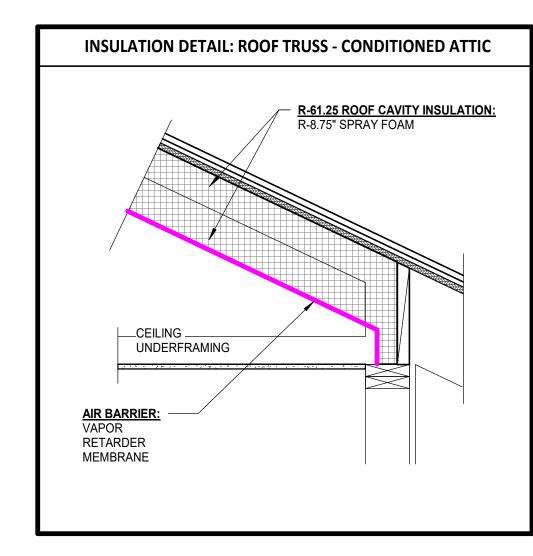
PRODUCT SELECTIONS.

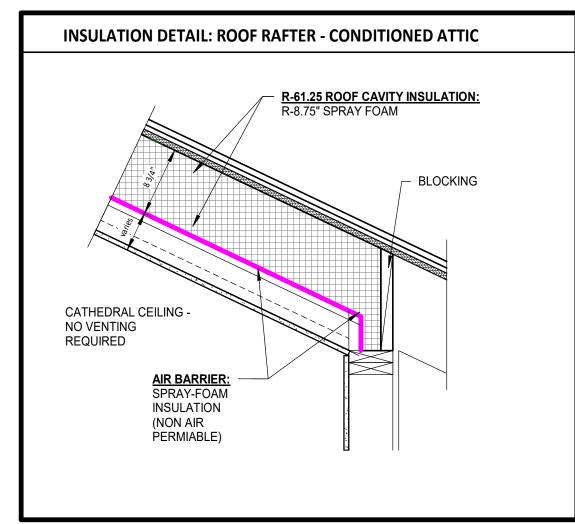
THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS, CONSTRUCTION DOCUMENTS, STRUCTURAL DOCUMENTS, MUNICIPAL AND/OR COUNTY ZONING CODES, PERTINENT <u>IRC 2021</u> CODE REQUIREMENTS, AND GENERAL SPECIFICATIONS.

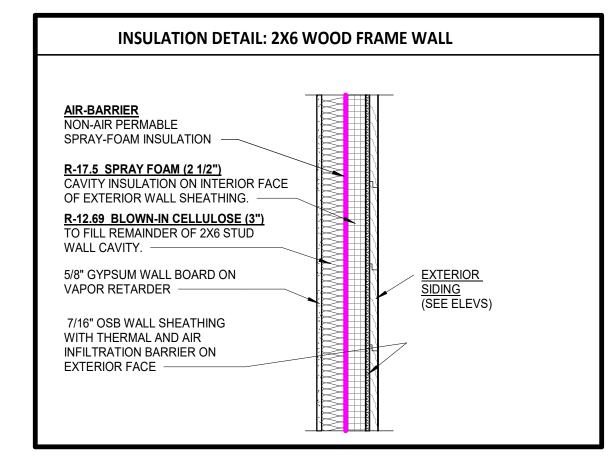
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MECHANICAL AND ELECTRICAL ENGINEERING, DESIGN, SPECIFICATIONS AND DRAWINGS AS REQUIRED FOR BUILDING PERMIT AND APPROVAL BY OWNER AND ARCHITECT.

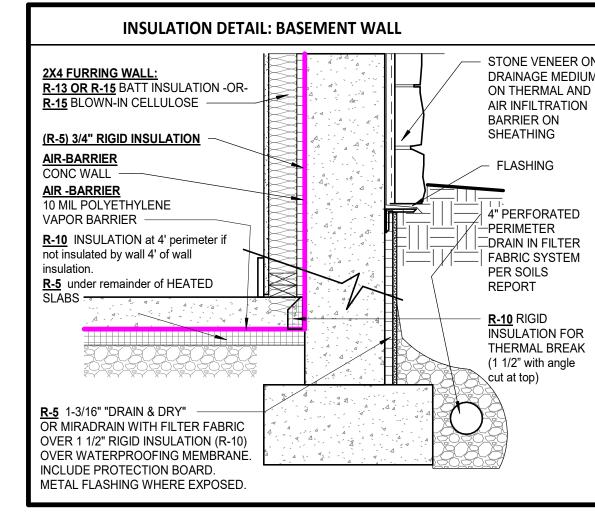
INSULATION DETAILS

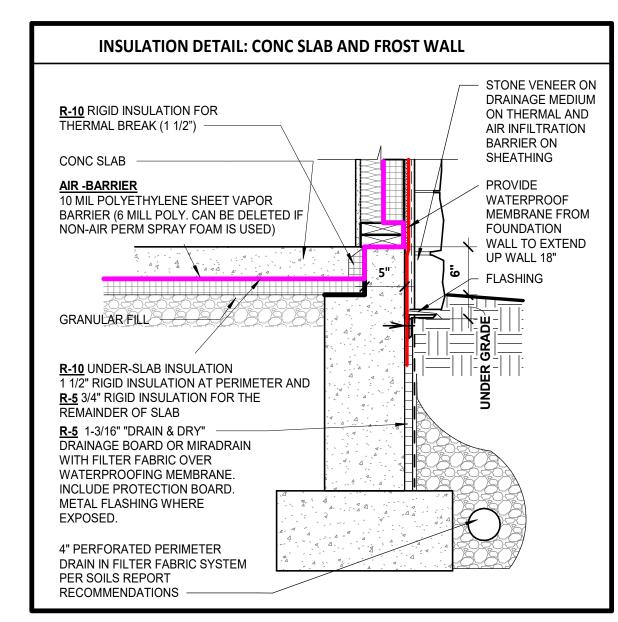




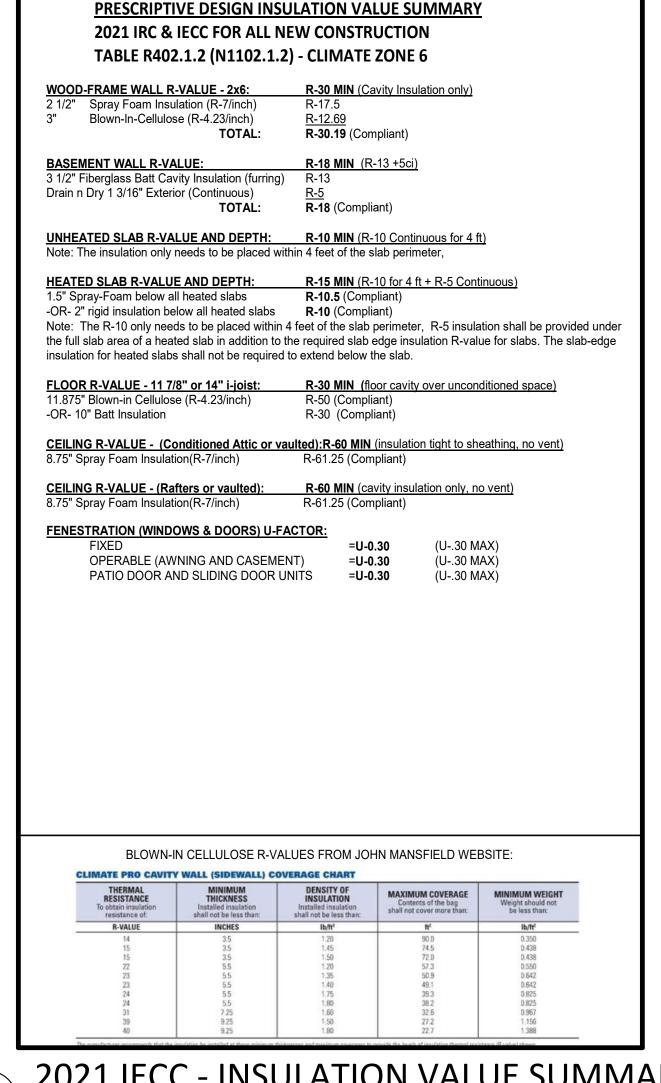








INSULATION VALUE SUMMARY



2021 IECC - INSULATION VALUE SUMMARY

A permanent certificate shall be completed by the builder or other approved party and posted on a wall in the space where the furnace is located, a utility room or an approved location inside the building. Where located on an electrical panel, the certificate shall not cover or obstruct the visibility of the circuit directory label, service disconnect label or other required labels. The certificate shall indicate the following:

1. The predominant R-values of insulation installed in or on ceilings, roofs, walls, foundation components such as slabs, basement walls, crawl space walls and floors, and ducts outside conditioned spaces. 2. U-factors of fenestration and the solar heat gain coefficient (SHGC) of fenestration. Where there is more than one value for any component of the building

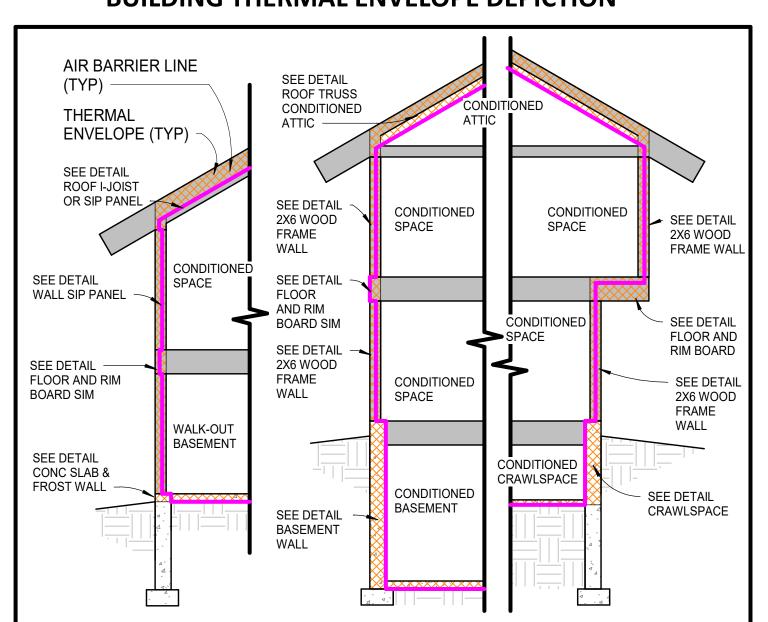
3. The results from any required duct system and building envelope air leakage testing performed on the building. 4. The types, sizes and efficiencies of heating, cooling and service water-heating equipment. Where a gas-fired unvented room heater, electric furnace, or baseboard electric heater is installed in the residence, the certificate shall indicate "gas-fired unvented room heater," "electric furnace" or "baseboard electric heater," as

appropriate. An efficiency is not required to be indicated for gas-fired unvented room heaters, electric furnaces and electric baseboard heaters. 5. Where on-site photovoltaic panel systems have been installed, the array capacity, inverter efficiency, panel tilt and orientation shall be noted on the certificate. 6. For buildings where an Energy Rating Index score is determined in accordance with Section N1106, the Energy Rating Index score, both with and without any onsite generation, shall be listed on the certificate.

BUILDING THERMAL ENVELOPE DEPICTION

7. The code edition under which the structure was permitted and the compliance path used.

envelope, the certificate shall indicate both the value covering the largest area and the area weighted average value if available.



2021 IECC - BUILDING THERMAL ENVELOPE DEPICTION

AIR BARRIER, AIR-SEALING, INSULATION INSTALLATION, AND TESTING

The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5. R402.4.1 Building thermal envelope.

The building thermal envelope shall comply with Sections R402.4.1.1 through R402.4.1.3. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. R402.4.1.1 Installation.

accordance with the manufacturer's instructions and the criteria indicated in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance

The components of the building thermal envelope as indicated in Table R402.4.1.1 shall be installed in

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	
Seneral requirements	A continuous air barrier shall be installed in the building envelope.	Air-permeable insulation shall not be used as a sealing material.	
	Breaks or joints in the air barrier shall be sealed.		
Celling/attic	The air barrier in any dropped ceiling or soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
	The junction of the foundation and sill plate shall be sealed.		
Walls	The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within comers and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance, R-value, of not less than R-3 per inch. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and	The space between framing and skylights, and the jambs of		
doors	windows and doors, shall be sealed.		
	Rim joists shall include an exterior air barrier.b	Rim joists shall be insulated so that the insulation maintains permanent contact with the exterior rim board.9	
Rim joists	The junctions of the rim board to the sill plate and the rim board and the subfloor shall be air sealed.		
Floors, including cantilevered floors and loors above garages	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking. Alternatively, floor framing cavity insulation shall be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extending from the bottom to the top of all perimeter floor framing members.	
	Exposed earth in unvented crawl spaces shall be covered		
Basement crawl space and slab foundations	with a Class I vapor retarder/air barrier in accordance with Section R402.2.10.	Crawl space insulation, where provided instead of floor insulation, shall be installed in accordance with <u>Section R402.2.10</u> .	
	Penetrations through concrete foundation walls and slabs shall be air sealed.	Conditioned basement foundation wall insulation shall be installed in accordance with Section R402.2.8.1.	
	Class 1 vapor retarders shall not be used as an air barrier on below-grade walls and shall be installed in accordance with Section R702.7 of the International Residential Code.	Siab-on-grade floor insulation shall be installed in accordance with <u>Section</u> R402.2.10.	
Shafts, penetrations	Duct and flue shafts to exterior or unconditioned space shall be sealed. Utility penetrations of the air barrier shall be caulked, gasketed or otherwise sealed and shall allow for expansion, contraction of materials and mechanical vibration.	Insulation shall be fitted tightly around utilities passing through shafts and penetrations in the building thermal envelope to maintain required <i>R</i> -value.	
Narrow cavities	Narrow cavities of 1 inch or less that are not able to be insulated shall be air sealed.	Batts to be installed in narrow cavities shall be cut to fit or narrow cavities shall be filled with insulation that on installation readily conforms to the available cavity space.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.	Insulated portions of the garage separation assembly shall be installed in accordance with <u>Sections R303</u> and <u>R402.2.7</u> .	
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be air sealed in accordance with <u>Section</u> R402.4.5.	Recessed light fixtures installed in the building thermal envelope shall be airtight and IC rated, and shall be buried or surrounded with insulation.	
Plumbing, wiring or other obstructions	All holes created by wiring, plumbing or other obstructions in the air barrier assembly shall be air sealed.	Insulation shall be installed to fill the available space and surround wiring, plumbing, or other obstructions, unless the required <i>R</i> -value can be met by installing insulation and air barrier systems completely to the exterior side of the obstructions.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate the wall from the shower or tub.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical and communication boxes. Alternatively, air-sealed boxes shall be installed.	_	
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the subfloor, wall covering or ceiling penetrated by the boot.	=	
	Where required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the		

walls or ceilings. a. Inspection of log walls shall be in accordance with the provisions of ICC 400.

manufacturer. Caulking or other adhesive sealants shall not

be used to fill voids between fire sprinkler cover plates and

R402.4.1.2 Testing.

The building or dwelling unit shall be tested for air leakage. The maximum air leakage rate for any building or dwelling unit under any compliance path shall not exceed 5.0 air changes per hour or 0.28 cubic feet per minute (CFM) per square foot [0.0079 m3/(s × m2)] of dwelling unit enclosure area. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380, ASTM E779 or ASTM E1827 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Where required by the code official, testing shall be conducted by an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope have been (See IECC-2021 for exceptions and testing requirements)

Mechanical ventilation shall be provided in accordance with Section M1505 of the International Residential Code or Section 403.3.2 of the International Mechanical Code, as applicable, or with other approved means of ventilation.

When complying with Section R401.2.1, the building or dwelling unit shall have an air leakage rate not exceeding 5.0 air changes per hour in Climate Zones 0, 1 and 2, and 3.0 air changes per hour in Climate Zones 3 through 8, when tested in accordance with Section R402.4.1.2.

ENERGY CODE COMPLIANCE IRC-2021 AND IECC-2021

Note: The text of Sections N1101.2 through N1113 parallels the text of the 2021 edition of the International Energy

The purpose of Chapter 11 [RE] is to provide minimum design requirements that will promote efficient utilization of energy in buildings. The requirements are directed toward the design of building envelopes with adequate thermal resistance and low air leakage, and toward the design and selection of mechanical, water heating, electrical and illumination systems that promote effective use of depletable energy resources.

R401.1 Residential Buildings - Energy Compliance Path Options Residential buildings shall comply with 3 options + Additional (if required by local jurisiction):

R401.2.1 Prescriptive Compliance R401.2.2 Total Building Permormance

R401.2.3 Energy Rating R401.2.5 Additional Energy Efficiency

N1101.5(R103.2)Information on construction documents.

Construction documents shall be drawn to scale on suitable material. Electronic media documents are permitted to be submitted when approved by the code official. Construction documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed, and show in sufficient detail pertinent data and features of the building, systems and equipment as herein governed. Details shall include the following as applicable:

1.Energy compliance path. Prescriptive

2.Insulation materials and their R-values. See Insulation Value Summary (this sheet)

3.Fenestration U-factors and solar heat gain coefficients (SHGC). See Insulation Value summary (this sheet) 4.Area-weighted U-factor and solar heat gain coefficient (SHGC) calculations. Not Applicable

5.Mechanical system design criteria. By others

6.Mechanical and service water heating systems and equipment types, sizes and efficiencies. By others 7. Equipment and system controls. By others

8.Duct sealing, duct and pipe insulation and location. All within conditioned space

9.Air sealing details. See Wall, Ceiling, Floor Details (this sheet)

N1101.5.1(R103.2.1)Building thermal envelope depiction. See Building Thermal En The building thermal envelope shall be represented on the construction documents. Depication (this sheet)

TABLE R402.1.2 MAXIMUM ASSEMBLY U-FACTORS AND FENESTRATION REQUIREMENTS TABLE R402.1.3 INSULATION MINIMUM R-VALUES

Note: R-values are minimums. U-factors and SHGC are maximums. Where insulation is installed in a cavity that is less than the label or design thickness of the insulation, the installed R-value of the insulation shall be not less than the R-value specified in the table.

CLIMATE ZONE (6)
Note: Eagle County lies in Climate Zone 6b.

FENESTRATION U-FACTOR (.30)

SKYLIGHT U-FACTOR (.55)

GLAZED FENESTRATION SHGC NR (Not Required) CEILING R-VALUE (60) CEILING U-FACTOR (.024)

WOOD FRAME WALL R-VALUE (30) OR (20&5ci) OR (13&10ci) OR (0&20ci)

WOOD FRAME WALL U-FACTOR (.045)

Note g: The first value is cavity insulation; the second value is continuous insulation.

Therefore, as an example, "13&5" means R-13 cavity insulation plus R-5 continuous insulation. MASS WALL R-VALUE (15/20) MASS WALL U-FACTOR (.033)

Note h: Mass walls shall be in accordance with Section N1102.2.5. The second R-value applies where more than half of the insulation is on the interior of the mass wall.

FLOOR R-VALUE (30) FLOOR U-FACTOR (.033)

BASEMENT WALL R-VALUE (15ci) OR (19) OR (13&5ci) BASEMENT WALL U-FACTOR (.050)

Note c: 5ci or 13" means R-5 continuous insulation (ci) on the interior or exterior surface of the wall or R-13 cavity

insulation on the interior side of the wall. "10ci or 13" means R-10 continuous insulation (ci) on the interior or exterior surface of the wall or R-13 cavity insulation on the interior side of the wall. "15ci or 19 or 13&5ci" means R-15 continuous insulation (ci) on the interior or exterior surface of the wall; or R-19 cavity insulation on the interior side of the wall; or R-13 cavity insulation on the interior of the wall in addition to R-5 continuous insulation on the interior or exterior surface of the wall.

SLAB R-VALUE & DEPTH (10ci, 4 ft)

Note d: R-5 insulation shall be provided under the full slab area of a heated slab in addition to the required slab edge insulation R-value for slabs. as indicated in the table. The slab-edge insulation for heated slabs shall not be required to extend below the slab.

CRAWLSPACE WALL R-VALUE (15ci) OR (19) OR (13&5ci) CRAWLSPACE WALL U-FACTOR (.055)

Note g: The first value is cavity insulation; the second value is continuous insulation. Therefore, as an example, "13&5" means R-13 cavity insulation plus R-5 continuous insulation.

Note c: 5ci or 13" means R-5 continuous insulation (ci) on the interior or exterior surface of the wall or R-13 cavity insulation on the interior side of the wall. "10ci or 13" means R-10 continuous insulation (ci) on the interior or exterior surface of the wall or R-13 cavity insulation on the interior side of the wall. "15ci or 19 or 13&5ci" means R-15 continuous insulation (ci) on the interior or exterior surface of the wall; or R-19 cavity insulation on the interior side of the wall; or R-13 cavity insulation on the interior of the wall in addition to R-5 continuous insulation on the interior or exterior surface of the wall.

ENERGY CODE EXCERPTS IRC-2021 AND IECC-2021

Where Section R402.1.3 requires R-60 insulation in the ceiling or attic, installing R-49 over 100 percent of the ceiling or attic area requiring insulation shall satisfy the requirement for R-60 insulation wherever the full height of uncompressed R-49 insulation extends over the wall top plate at the eaves.

R402.2.2 Ceilings without attics. Where Section R402.1.3 requires insulation R-values greater than R-30 in the interstitial space above a ceiling and below the structural roof deck, and the design of the roof/ceiling assembly does not allow sufficient space for the required insulation, the minimum required insulation R-value for such roof/ceiling assemblies shall be R-30. Insulation shall extend over the top of the wall plate to the outer edge of such plate and shall not be compressed. This reduction of insulation from the requirements of Section R402.1.3 shall be limited to 500 square feet (46 m2) or 20 percent of the total insulated ceiling area, whichever is less.

C303.1.1.1 Blown-in or sprayed roof/ceiling insulation. The thickness of blown-in or sprayed fiberglass and cellulose roof/ceiling insulation shall be written in inches (mm) on markers and one or more of such markers shall be installed for every 300 square feet (28 m2) of attic area throughout the attic space. The markers shall be affixed to the trusses or joists and marked with the minimum initial installed thickness with numbers not less than 1 inch (25 mm) in height. Each marker

top of the attic insulation. The baffle shall be permitted to be any solid material.

indicated on certification provided by the insulation installer. N1102.2.3 (R402.2.3) Eave baffle. For air permeable insulations in vented attics, a baffle shall be installed adjacent to soffit and eave vents. Baffles shall maintain an opening equal or greater than the size of the vent. The baffle shall extend over the

shall face the attic access opening. Spray polyurethane foam thickness and installed R-value shall be

N1102.2.4 (R402.2.4) Access hatches and doors. Access doors from conditioned spaces to unconditioned spaces (e.g., attics and crawl spaces) shall be weatherstripped and insulated to a level equivalent to the insulation on the surrounding surfaces. Access shall be provided to all equipment that prevents damaging or compressing the insulation. A wood framed or equivalent baffle or retainer is required to be provided when loose fill insulation is installed, the purpose of which is to prevent the loose fill insulation from spilling into the living space when the attic access is opened, and to provide a permanent means of maintaining the installed R-value of the loose fill insulation.

N1102.2.5 (R402.2.5) Mass walls. Mass walls for the purposes of this chapter shall be considered above-grade walls of concrete block, concrete, insulated concrete form (ICF), masonry cavity, brick (other than brick veneer), earth (adobe, compressed earth block, rammed earth) and solid timber/logs.

Floor insulation shall be installed to maintain permanent contact with the underside of the subfloor decking.

N1102.2.9 (R402.2.9) Slab-on-grade floors.

Slab-on-grade floors with a floor surface less than 12 inches (305 mm) below grade shall be insulated in accordance with Table N1102.1.1. The insulation shall extend downward from the top of the slab on the outside or inside of the foundation wall. Insulation located below grade shall be extended the distance provided in Table N1102.1.1 by any combination of vertical insulation, insulation extending under the slab or insulation extending out from the building. Insulation extending away from the building shall be protected by pavement or by a minimum of 10 inches (254 mm) of soil. The top edge of the insulation installed between the exterior wall and the edge of the interior slab shall be permitted to be cut at a 45-degree (0.79 rad) angle away from the exterior wall.

N1102.2.8 (R402.2.8) Basement walls.

Walls associated with conditioned basements shall be insulated from the top of the basement wall down to 10 feet (3048 mm) below grade or to the basement floor, whichever is less. Walls associated with unconditioned basements shall meet this requirement unless the floor overhead is insulated in accordance with Sections N1102.1.1 and N1102.2.7.

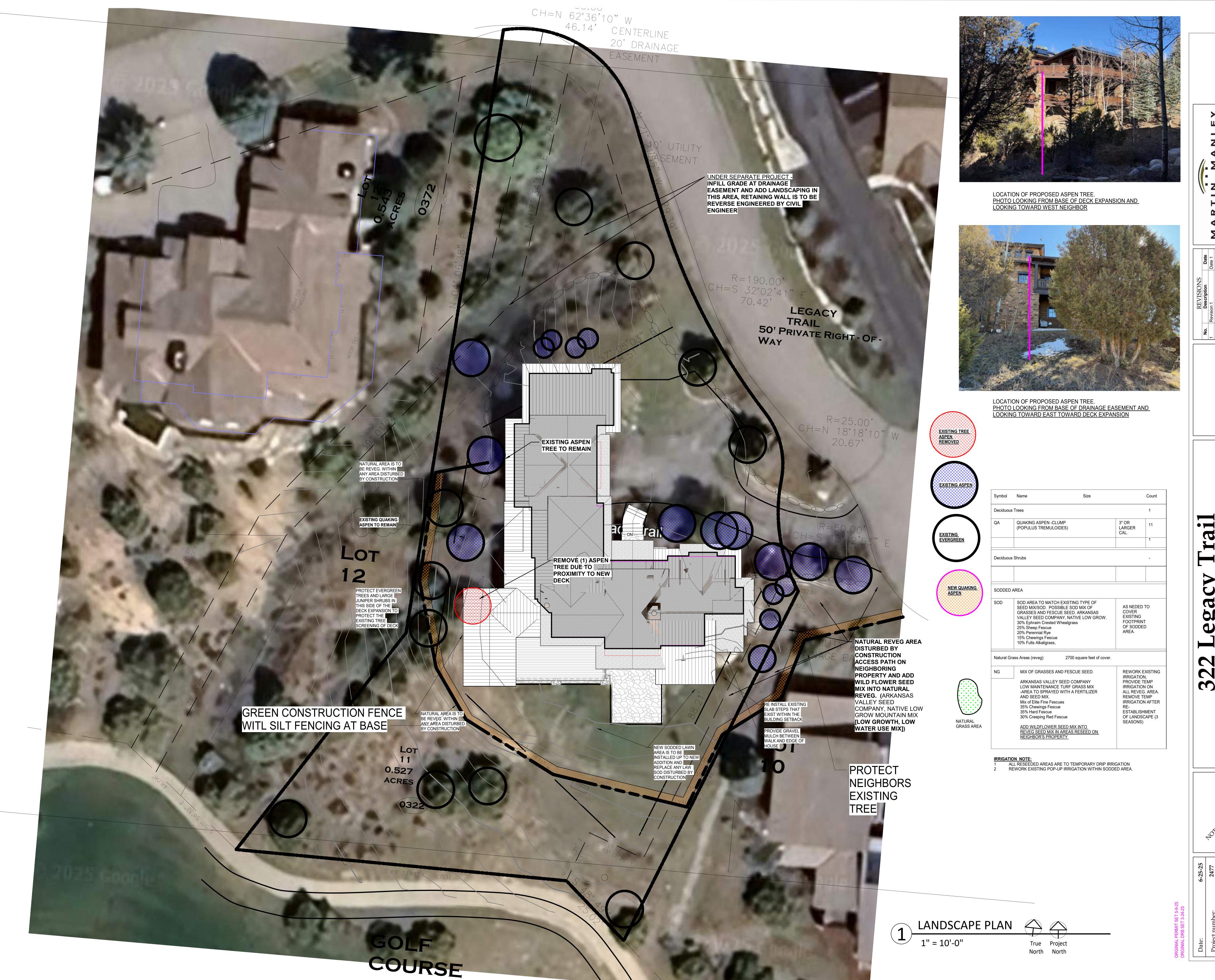
C303.2.1 Protection of exposed foundation insulation. Insulation applied to the exterior of basement walls, crawl space walls and the perimeter of slab-on-grade floors shall have a rigid, opaque and weather-resistant protective covering to prevent the degradation of the insulation's thermal performance. The protective covering shall cover the exposed exterior insulation and extend not less than 6 inches (153 mm) below grade.

N1102.2.10 (R402.2.10) Crawl space walls.

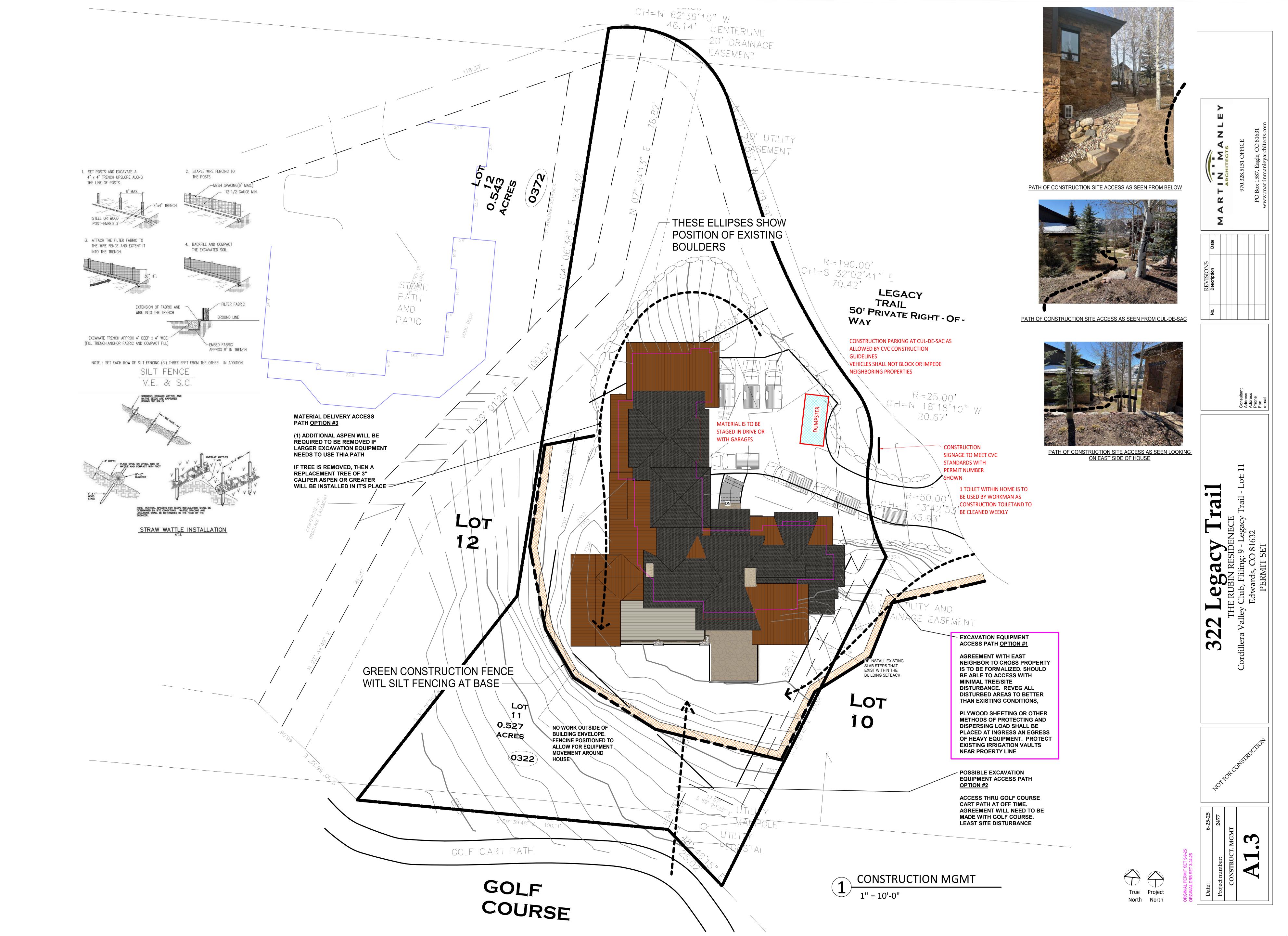
As an alternative to insulating floors over crawl spaces, crawl space walls shall be permitted to be insulated when the crawl space is not vented to the outside. Crawl space wall insulation shall be permanently fastened to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm). Exposed earth in unvented crawl space foundations shall be covered with a continuous Class I vapor retarder in accordance with this code. All joints of the vapor retarder shall overlap by 6 inches (153 mm) and be sealed or taped. The edges of the vapor retarder shall extend at least 6 inches (153 mm) up the stem wall and shall be attached to the stem wall.

N1102.2.11 (R402.2.11) Masonry veneer. Insulation shall not be required on the horizontal portion of the foundation that supports a masonry veneer.

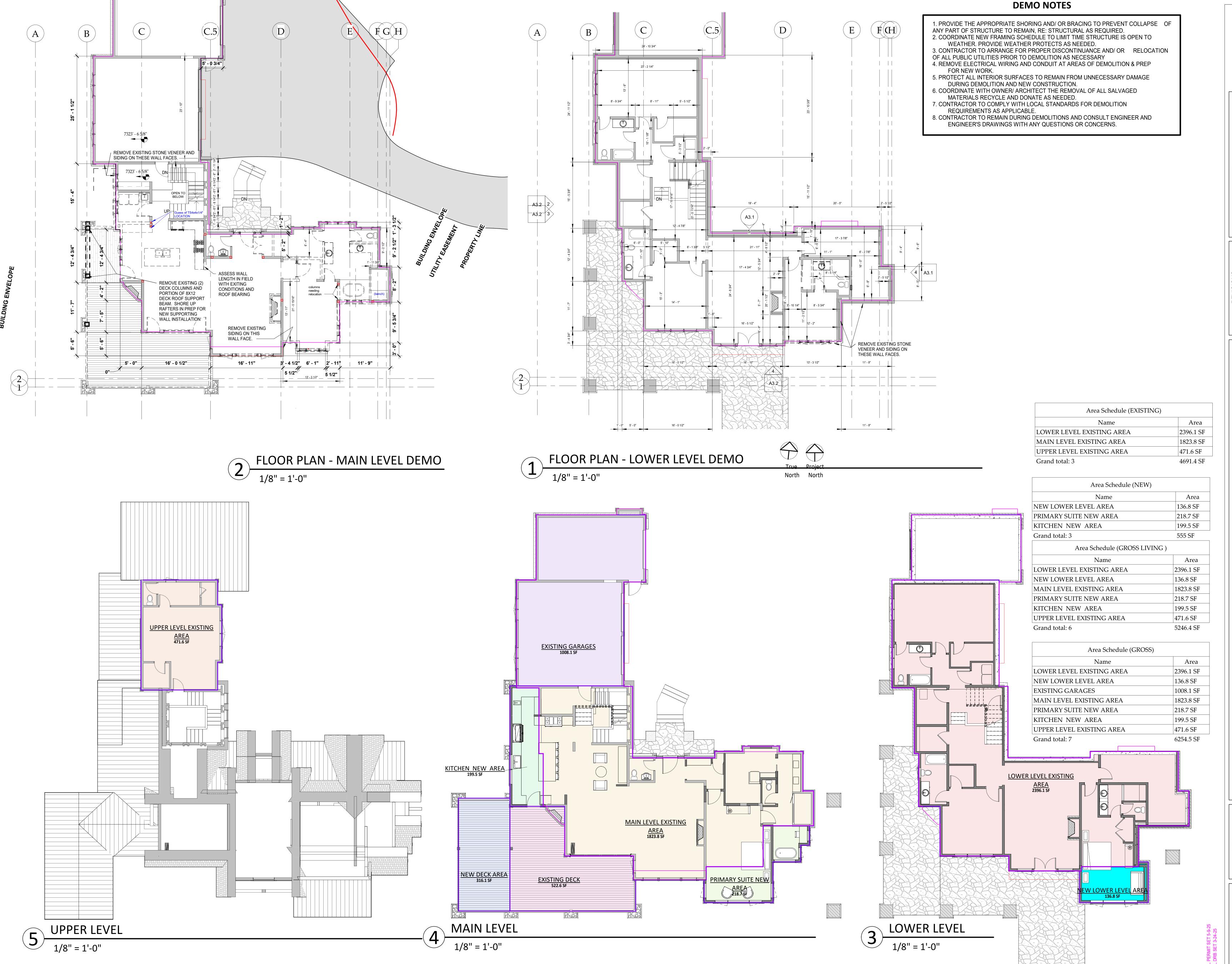


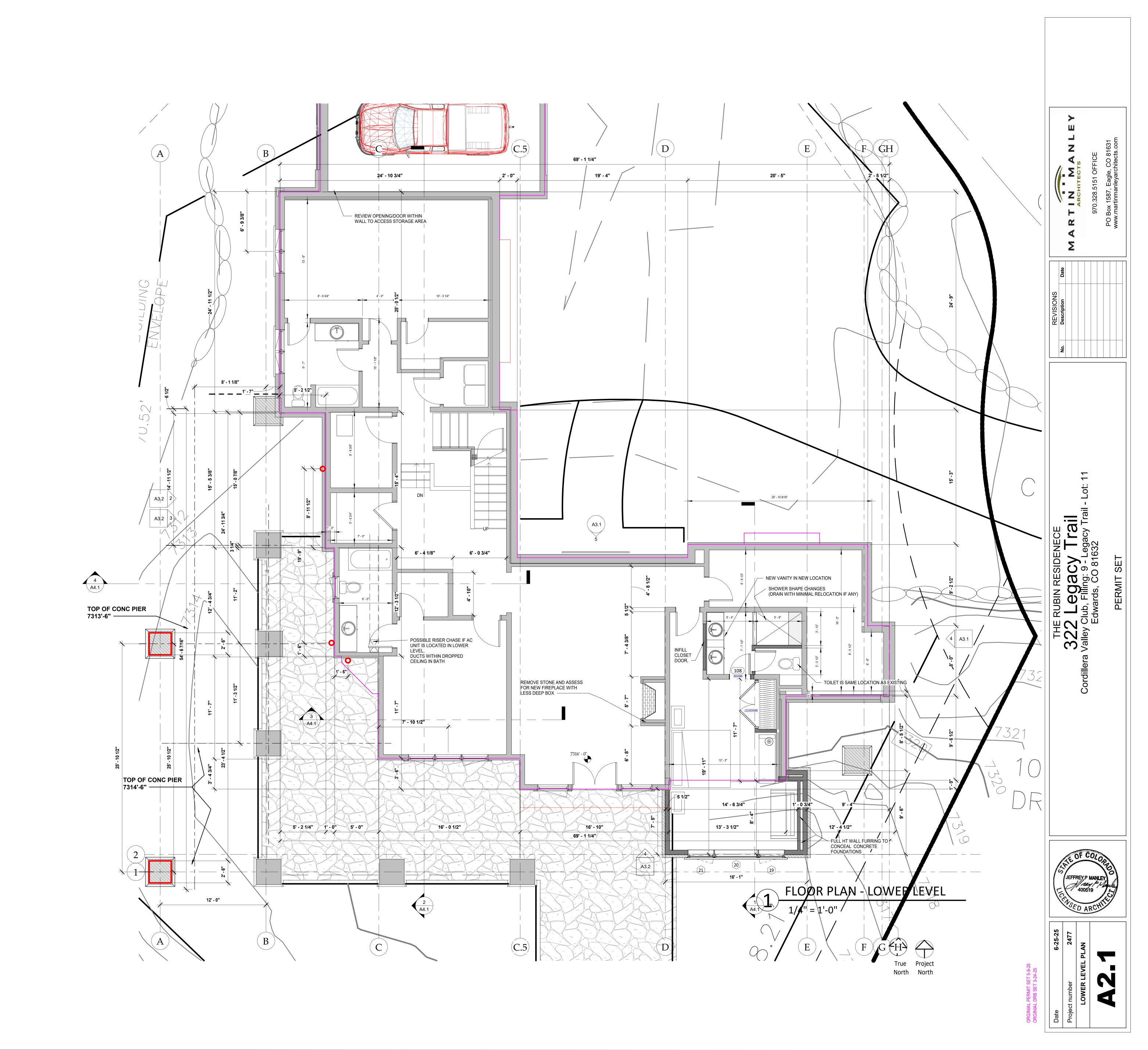


Consulta Address Address Phone Fax e-mail

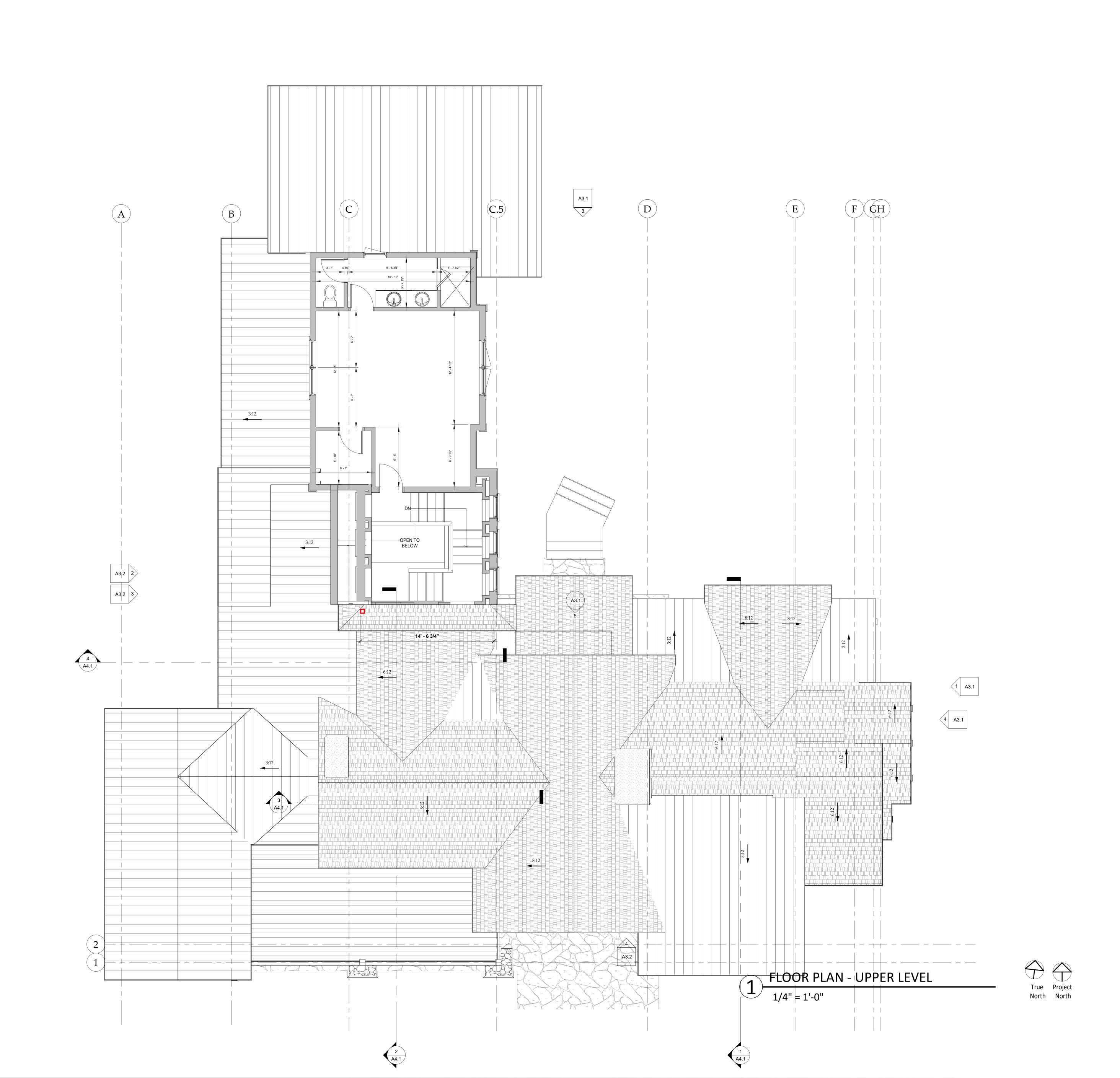


7/11/2025 3:10:54 PN











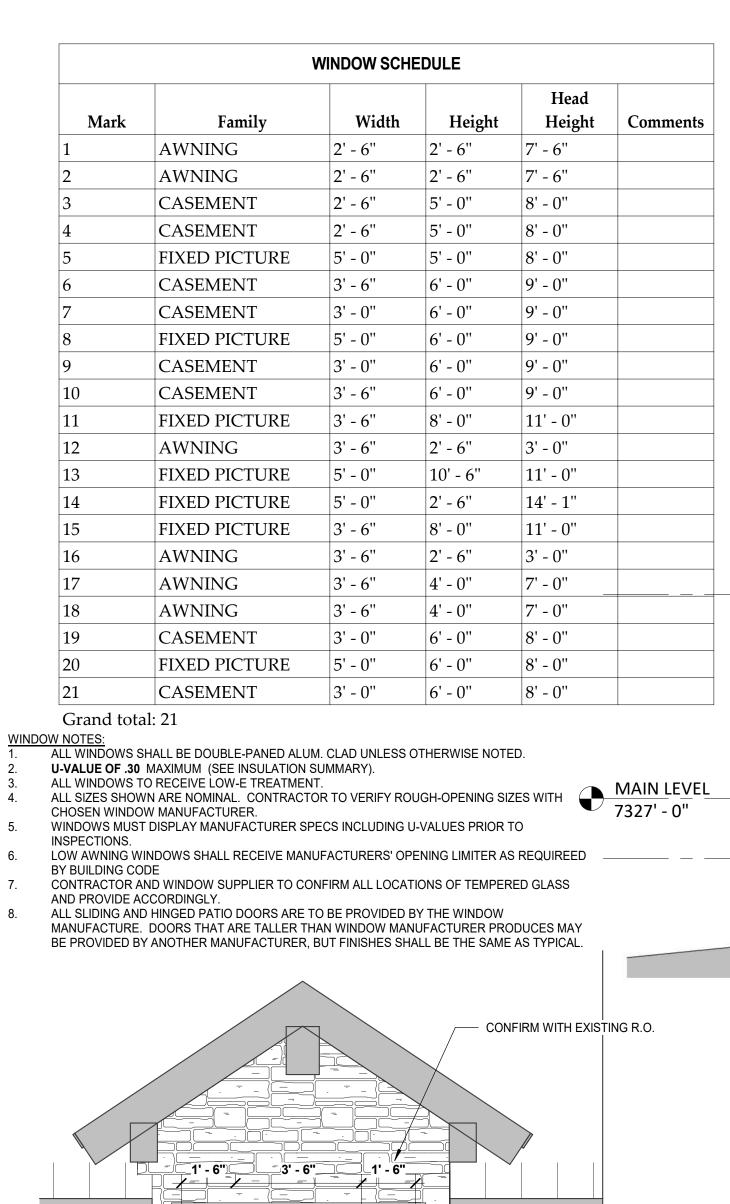
JEFFREY P MANLEY
400519

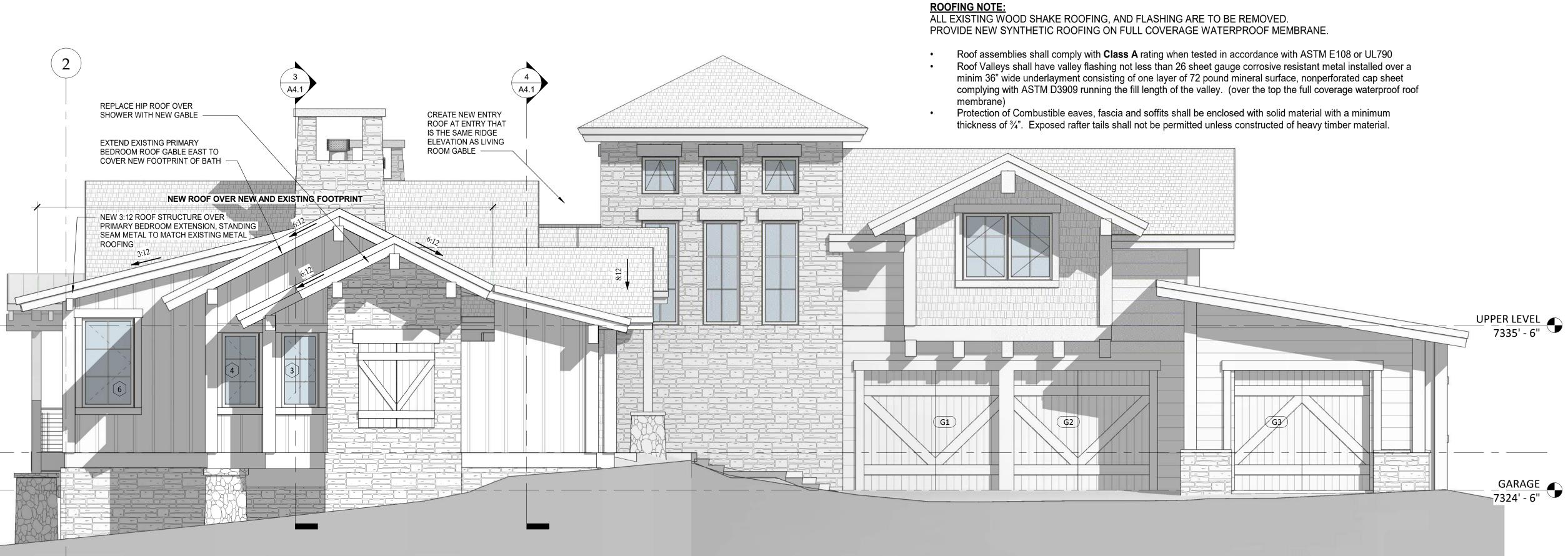
CHILD SED ARCHITE

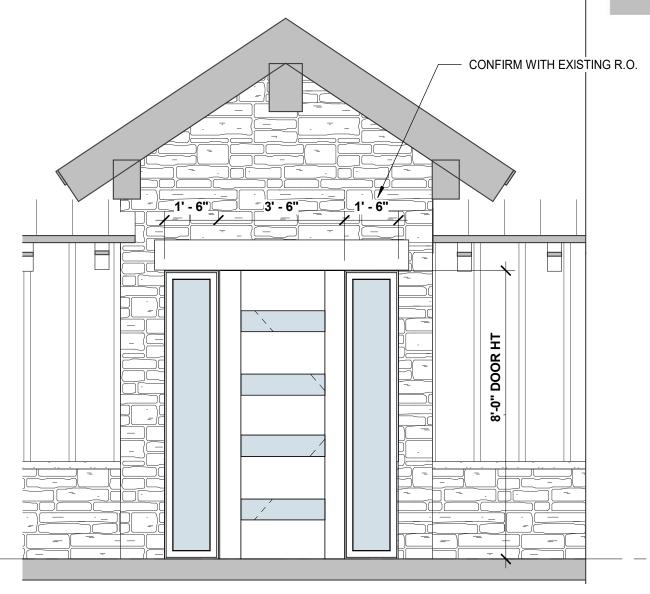
Project number 2477

UPPER LEVEL PLAN











EXTERIOR MATERIAL NOTES:
ALL NEW EXTERIOR SIDING, TRIM, FASCIAS, AND TIMBER MATERIALS, COLORS,

ALL NEW EXTERIOR SIDING, TRIM, FASCIAS, AND TIMBER MATERIALS, COLORS AND TEXTURES ARE TO MATCH EXISTING.

NEW WINDOWS SHALL MATCH EXISTING ALUM CLAD WINDOW COLOR

ROOFING NOTE:
DAVINCI, SINGLE WIDTH SHINGLE (12"), IN SLATE BLACK COLOR, CLASS 'A', INSTALLED IN 7" EXPOSURE.

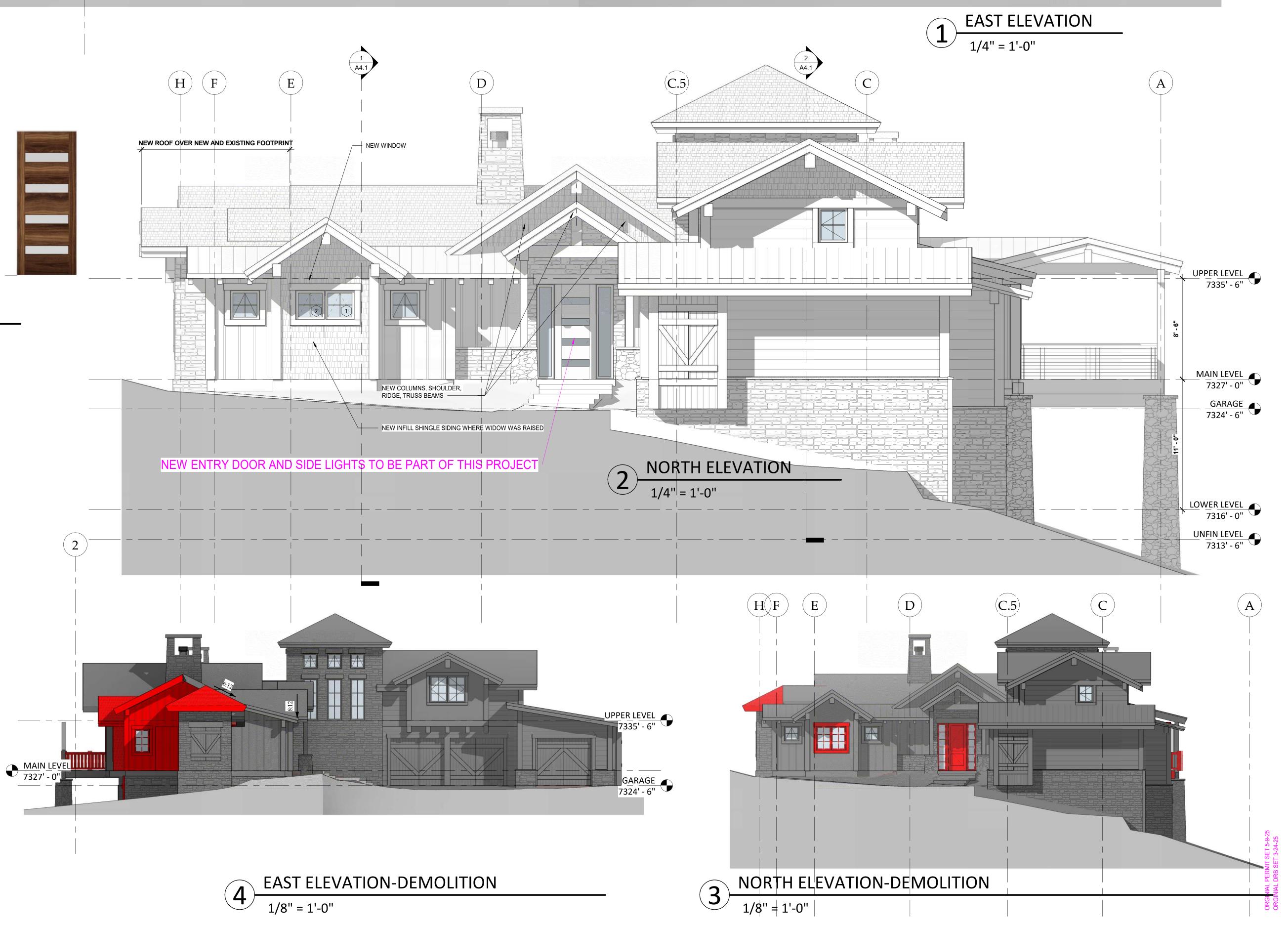
ALL EXISTING WOOD SHAKE ROOFING, AND FLASHING ARE TO BE REMOVED. PROVIDE NEW SYNTHETIC ROOFING ON FULL COVERAGE WATERPROOF MEMBRANE.

- Roof assemblies shall comply with Class A rating when tested in accordance with ASTM E108 or UL790
- Roof Valleys shall have valley flashing not less than 26 sheet gauge corrosive resistant metal installed over a minim 36" wide underlayment consisting of one layer of 72 pound mineral surface, nonperforated cap sheet complying with ASTM D3909 running the fill length of the valley. (over the top the full coverage waterproof roof membrane)
- Protection of Combustible eaves, fascia and soffits shall be enclosed with solid material with a minimum thickness of ¾". Exposed rafter tails shall not be permitted unless constructed of heavy timber material.



EXTERIOR GUARD/RAILING DESIGN:
GUARD/RALINGS ARE TO BE 2"x1 1
1/2" STEEL TUB OPT RAIL WITH
STEEL BAR STOCK 3/8"x1 1 3/4" 'BOX'
NEWELS WITH 3/8" ROD PICKEST AT
4" SPACING.
TOP RAIL TO BE AT 38" ABOVE DECK
SURFACE

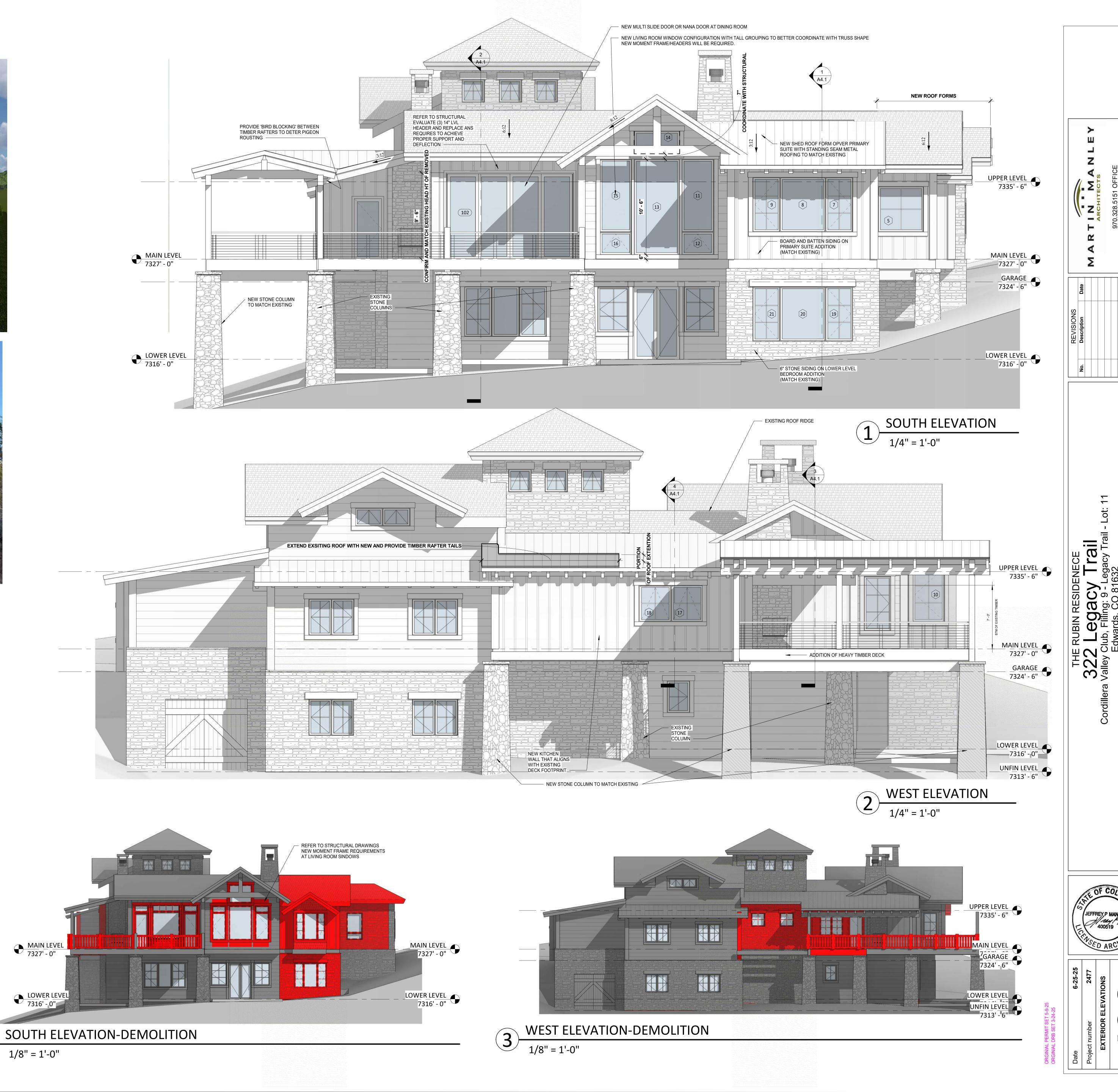
EXISTING WOOD GUARDS/RAILING AND NEWELS AT DECK ARE TO BE







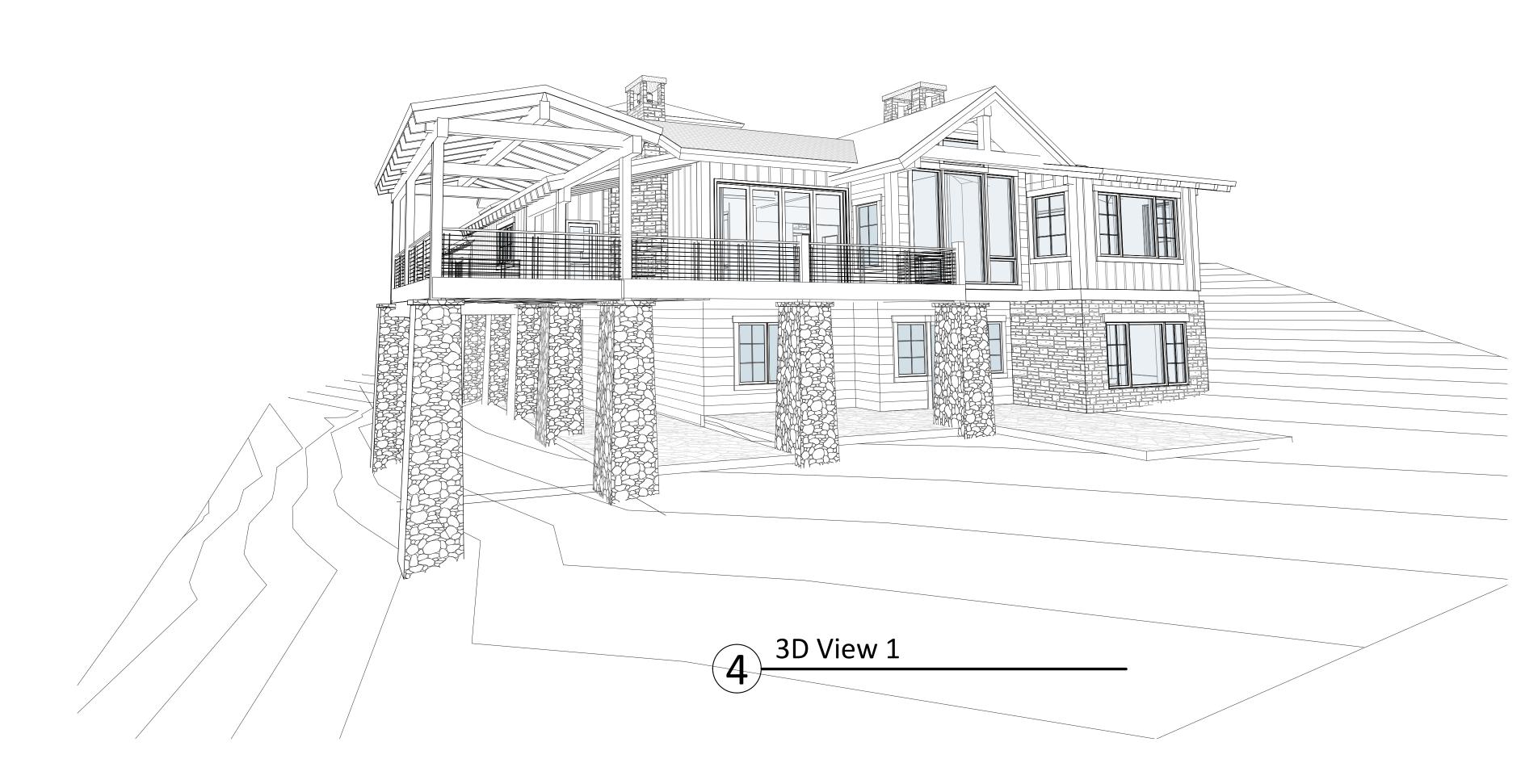
 $5 \frac{\text{Image of deck from north}}{12" = 1'-0"}$

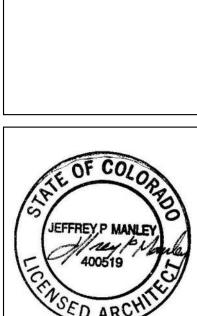












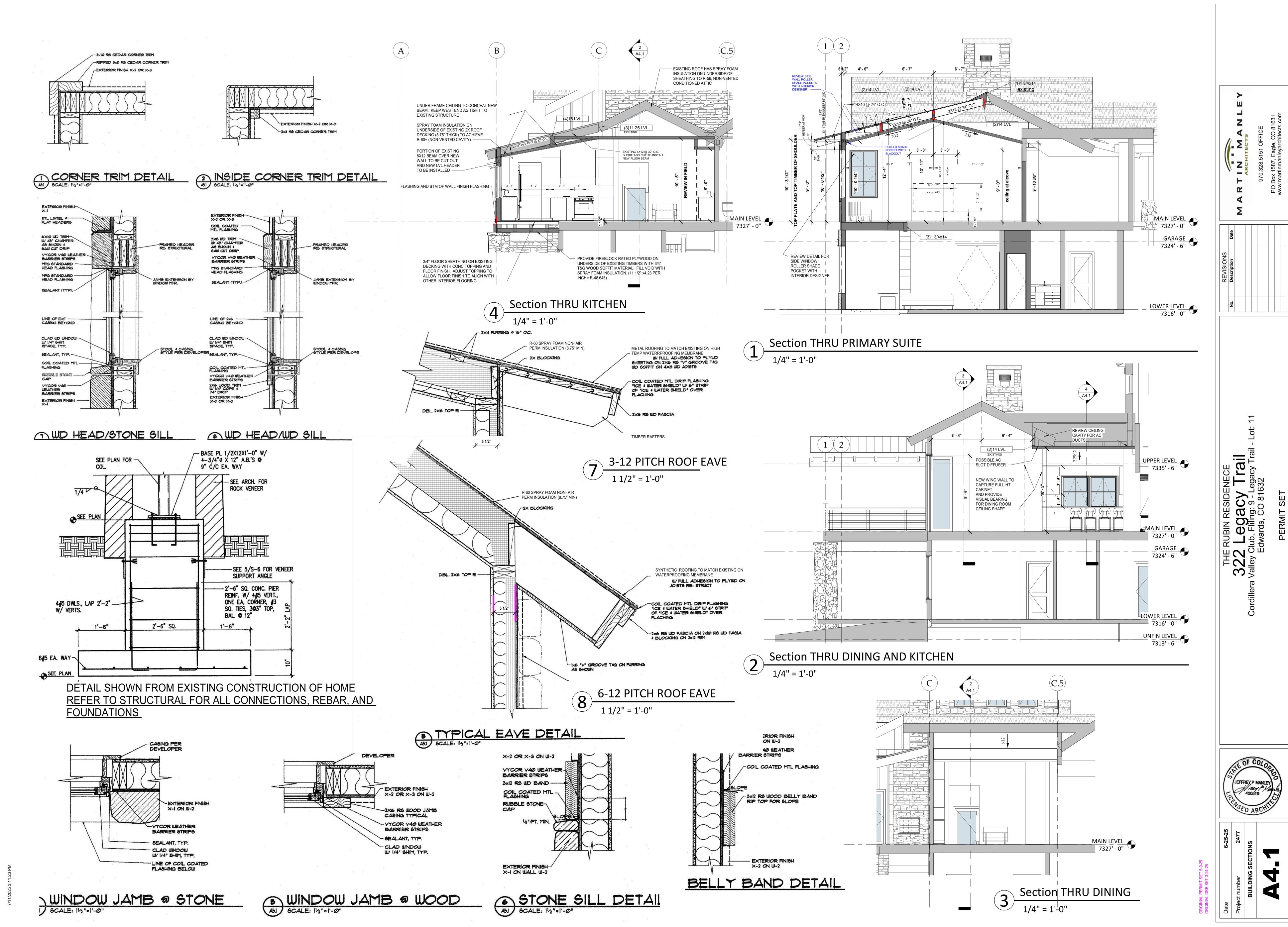






PHOTO FROM BASE OF NEW DECK COLUMNS LOOKING TOWARD WEST NEIGHBOR

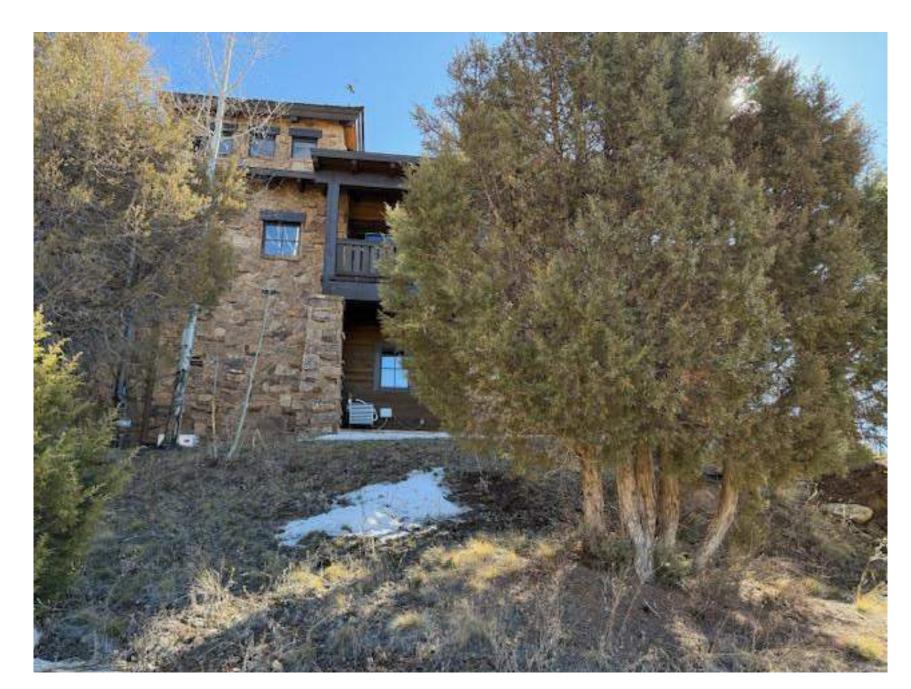


PHOTO FROM WEST DRAINAGE EASEMENT LOOKING UP AT WEST SIDE OF BUILDING



PHOTO FROM GOLF COURSE CART PATH LOOKING UP AT WEST SIDE OF BUILDING



PHOTO FROM WEST NEIGHBOR DECK LOOKING AT 3RD CAR GARAGE/CART GARAGE

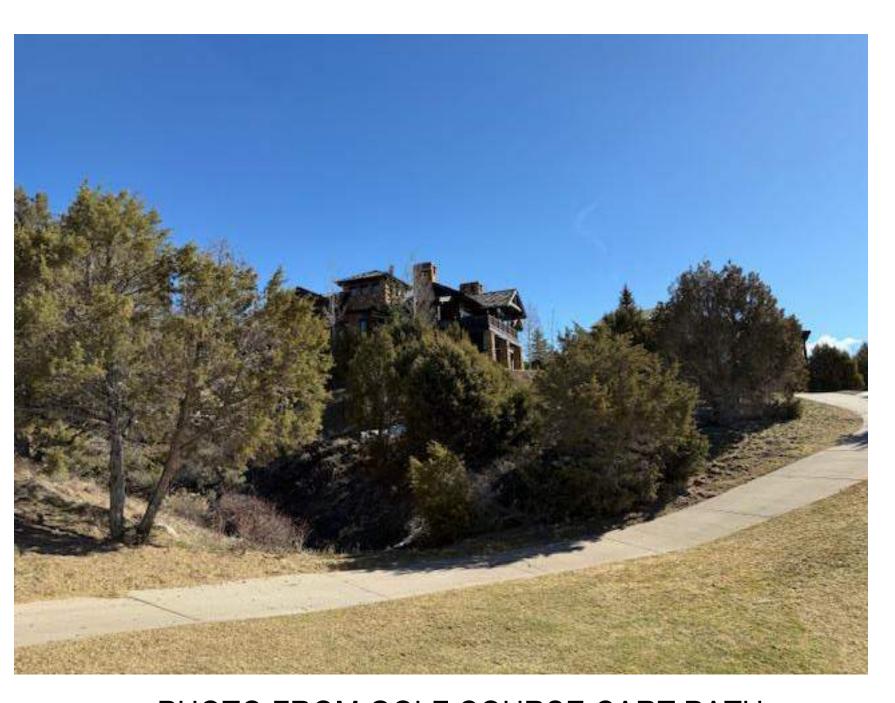


PHOTO FROM GOLF COURSE CART PATH LOOKING UP AT WEST SIDE OF BUILDING



PHOTOS OF SOUTH EASE SIDE OF HOME SHOWING STEPPING PATH TO BE REINSTALLED ON EAST SIDE



PHOTO FROM GOLF COURSE CART PATH LOOKING UP AT SOUTH SIDE OF BUILDING

