

PROJECT DATA

PROJECT NAME: RABOVER POOL HOUSE & OUTSIDE KITCHEN & DECKS
PROJECT ADDRESS: 15724 APOLIO HEIGHTS CT., CA. SARATOGA, CA 95070

APN: 51726012
PROJECT TYPE: ONE STORY POOL HOUSE & OUTSIDE KITCHEN W/ TWO DECKS.
OWNER: YURI RABOVER 650 7597020
PLANS DRAWN BY: NATALIA AMATUNI 408 4200411

PROJECT SUMMARY

GENERAL PLAN: HILLSIDE
ZONNING: HS: D1
Cal Fire SRA Hazard Class: High (100%)
Wildland Urban Interface: IN
Fire Protection District: Saratoga Fire Protection District
Geohazard: County landslide hazard zone
Geohazard: State seismic hazard zone (earthquake induced landslides)
Historic Parcel: NO
FEMA Flood Zone: D (100%)
PROPOSED POOL HOUSE LOCATED WITHIN :Fire Hazard Severity Zone and Wildland-Urban Interface Fire Area
NUMBER OF STORIES: ONE
FLOOR AREA ALLOWED MAX:40%
MAX. LOT COVERAGE :35%
MAX. BUILDING HEIGHT : 35'
MIN. SETBACK FRONT : 30'
MIN. SETBACK SIDE :30'
MIN. REAR SETBACK :30'
RETAINING WALL VISIBLE FROM VALLEY MAX. H.- 10'

TYPE OF CONSTRUCTION: VB

OCCUPANCY: R-3-U

LOT AREA: 1.4 ACRES/ 62,291 SQ.FT.

EXISTING HOUSE LIVING AREA : 2526.3 SQ.FT.

GARAGE: 577.0 SQ.FT.
PARKING: TWO COVERED SPACES
TOTAL EXISTING FLOOR AREA WITH GARAGE: 3103.3 SQ.FT.
FAR HOUSE EXISTING: 4.9%

PROPOSED POOL HOUSE/ ACCESSORY STRUCTURE 696.00 SQ.FT.

PROPOSED LOT COVERAGE: (3,103.3.00SF HOUSE + 298.00SF BBQ AREA + 486.00 SF DECK MORE THAN 30"H + 696.00 SQ.FT. POOL HOUSE + 461 SQ.FT. POOL DECK)= 5,044 SQ.FT.

5044 : 62291= 8%

AVERAGE PROJECTED GRADE UNDER HIGH POINT OF STRUCTURE: 76.685

SCOPE OF WORK

696.00 SF POOL HOUSE AT THE REAR OF THE EXISTING RESIDENCE TO PROVIDE NEW SAUNA, BATHROOM, EXERCISE ROOM. TO CREATE STORAGE AREA UNDER THE POOL HOUSE.
TO DEMOLISH EXISTING GAZEBO AND BUILD 298 SQ.FT. COVERED BBQ AREA INSTEAD.
TO REPLACE REAR DECK AND ADD 608 SF(486 SQ.FT. +122 SF) OF NEW DECK.TOTAL NEW REAR DECK IS 1528 SQ.FT.
TO ADD 461 SQ.FT. OF NEW DECK (TILE FINISH) TO THE POOL DECK .
TO BUILD A NEW STAIR TO THE POOL HOUSE & POOL. TO BUILD TWO RETAINING WALLS.

707A.9. Underside of appendages. The underfloor area of elevated or overhanging buildings shall be enclosed to grade in accordance with the requirements of this chapter or the underside 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 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 including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association Fire Resistance Design Manual.5.The underside of a floor assembly that meets the performance criteria in accordance with the test procedures set forth in either of the following:5.1SFM Standard 12-7A-3; or5.2ASTM E2957.
Exception: Heavy timber structural columns and beams do not require protection.

An approved automatic sprinkler system shall be provided throughout all new buildings and structures unless the building or structure meets an exception below.
The exceptions do not apply when the driveway or access road providing fire department access to the building or structure is in excess of 15% slope.
B: Buildings and structures that are located in the Wildland Urban Interface and that do not exceed 500 square feet of building area.

903.3.1.1. NFPA 13 sprinkler systems. Where the provisions of this code require that a building or portion thereof be equipped throughout with an automatic sprinkler system in accordance with this section, sprinklers shall be installed throughout in accordance with NFPA 13 as amended in Chapter 35 except as provided in Section 903.3.1.1.1 and 903.3.1.1.2.

Chapter 4.20 Height standards for Accessory structure:
If gross lot area is less than two and one- half acres, height allowed is 12 feet, and one (1) story. When such a building has a hip or gable roof, the height is measured to the average vertical dimension between the ridge and top plate of wall. In no case may the absolute height exceed 16 feet. This gable allowance does not apply to buildings with dormers or gable roofs.

This roof- averaging height measurement may also be applied to a modified hip or gable roof structure, provided the distribution of roof massing is generally consistent with the intent of this provision, as determined by Zoning Administrator.

2. Location shall be in the rear half of the lot, at least 75' from front property line.

4. Separation from dwelling 6' min.
5. Rear yard coverage of residential accessory buildings shall not exceed 30%.

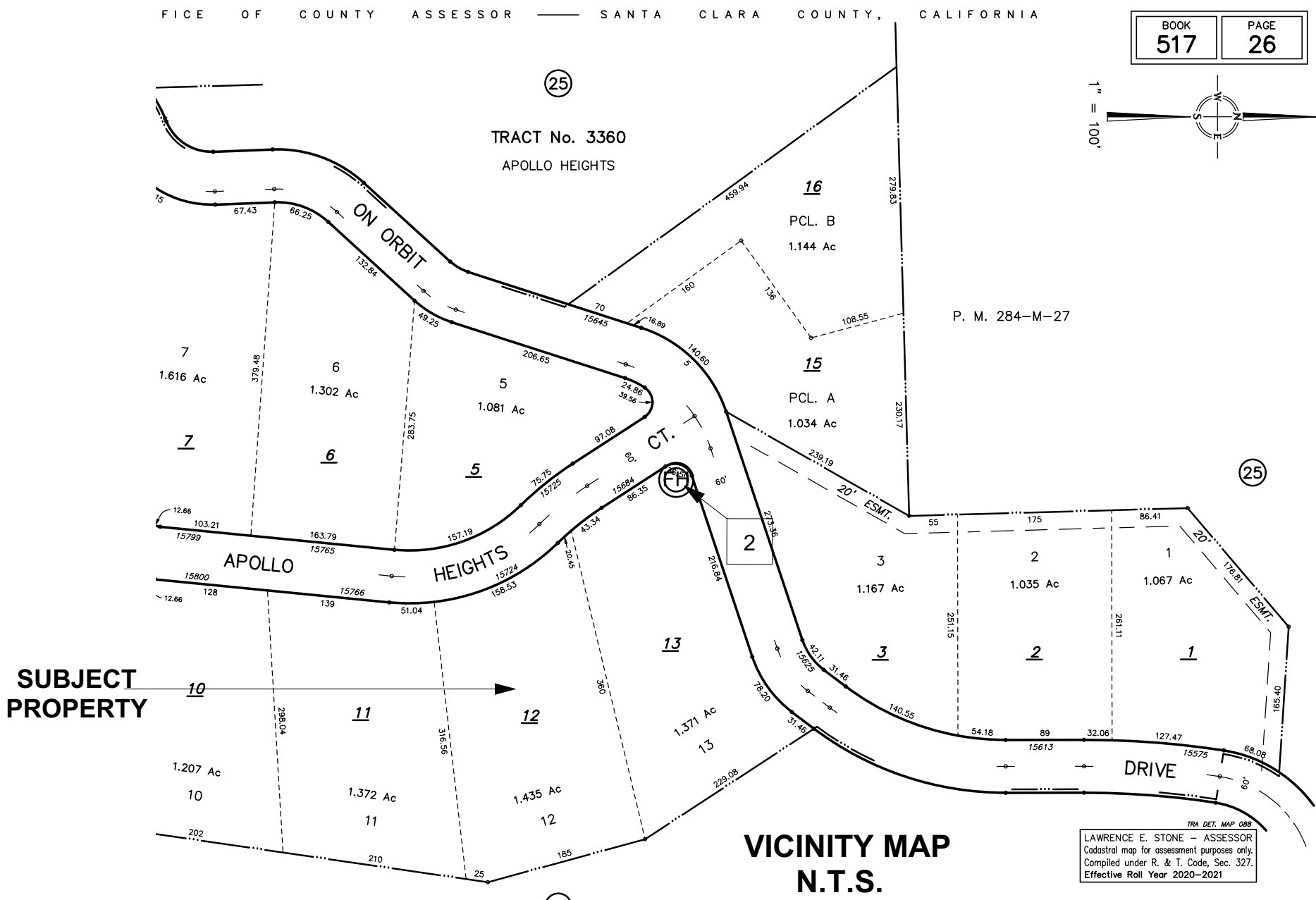
Chapter 4.20.2
No more than two internal plumbing fixtures allowed.
Water heater is not considered a plumbing fixture.
For pool house more than two fixtures might be allowed per Chapter 5.60.
Such structure might not be used for dwelling purposes or overnight accomodation.

NOTE:
Landscaping will be compliant with the WELO standards (chapter 2.7, division 2, of Title 23 of the California Code of regulations)

NOTE:
Recycle and/ or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste management city ordinance per CGBC 4.408.1

PLANS SHALL BE IN COMPLIANCE WITH:

- CALIFORNIA BUILDING CODE, 2019 EDITION
- CALIFORNIA RESIDENTIAL CODE, 2019 EDITION
- CALIFORNIA PLUMBING CODE, 2019 EDITION
- CALIFORNIA MECHANICAL CODE, 2019 EDITION
- CALIFORNIA ELECTRICAL CODE, 2019 EDITION
- 2019 CALIFORNIA ENERGY CODE
- 2019 GREEN BUILDING CODE
- 2019 CALIFORNIA FIRE CODE
- AND COUNTY OF SANTA CLARA MUNICIPAL CODE.



NOTES:
CONTRACTOR OR OWNER/ BUILDER IS RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, DIMENSIONS AND ROOF SLOPES IN FIELD.
EXISTING LANDSCAPING TO BE PROTECTED DURING CONSTRUCTION AND TO BE RETAINED AFTER CONSTRUCTION.

FINISH GRADE AROUND THE STRUCTURE SHALL SLOPE AWAY FROM THE FOUNDATION A MIN. OF 5% FOR A MIN. DISTANCE OF 10 FEET (CBC 1804.3).

ON GRADED SITES, THE TOP OF ANY EXTERIOR FOUNDATION SHALL EXTEND ABOVE THE ELEVATION OF THE STREET GUTTER AT A POINT OF DISCHATGE (OR THE INLET OF AN APPROVED DRAINAGE DEVICE), A MIN. 12 INCHES PLUS 2%.

NOTE 1 :2019 CALIFORNIA CODE OF REGULATIONS AS AMENDED BY STATE OF CALIFORNIA AND ALL APPLICABLE COUNTY OF SANTA CLARA ORDINANCES WILL BE EMPLOYED DURING THIS PROJECT.

NOTE 2: CONTRACTOR / PROPERTY OWNER SHALL POST HOURS OF OPERATION AND PHONE NUMBERS FOR NOISE COMPLAINTS.

NOTE 3: ALL ACTIVITIES SHALL BE SUBJECT TO THE REQUIREMENTS OF THE CITY OF PLEASANT HILL NOISE ORDINANCE.

NOTE 4: NO DEBRIS BOXES OR BUILDING MATERIALS SHALL BE STORED ON THE STREET.

NOTE 5: THERE WILL BE NO NEW LANDSCAPED AREA AS THE PART OF THIS PROJECT.
NOTE 6:PROVIDE TREE PROTECTION DURING CONSTRUCTION.

NOTE 7: VERIFY LOCATION OF UNDERGROUND UTILITIES AND NOTIFY UTILITY COMPANY PRIOR TO DIGGING.

NOTE 8: IMPLEMENT REQUIRED MEASURES TO MINIMIZE STORM WATER RUN OFF FROM THE SITE AND PREVENT STORM WATER CONTAMINATION DURING CONSTRUCTION PROVIDE DRY WELLS UNDER EA. DOWNSPOUT DISCHARGE.

NOTE 9: PLUMB INTERIOR FLOOR DRAINS TO SANITARY SEWER

NOTE 10: PLUMB INTERIOR GARAGE FLOOR DRAINS TO SANITARY SEWER

NOTE 11: MARK ON-SITE INLETS WITH THE WORDS "NO DUMPING! FLOWS TO BAY"

NOTE 12: PROVIDE ROOFED AND ENCLOSED AREA FOR DUMPSTERS , RECYCLING CONTAINERS, ETC.TO PREVENT STORMWATER RUN ON AND RUNOFF.

NOTE 13: COVER STORED OUTDOOR EQUIPMENT/ MATERIALS TO AVOID POLLUTANT CONTACT WITH STORMWATER RUNOFF.

NOTE 14: ROOF DRAINS SHALL DRAIN TO UNPAWED AREA WHEN PRACTICABLE. DRAIN BOILER DRAIN LINES, ROOF TOP EQUIPMENT, ALL WASHWATER TO SANITARY SEWER.

NOTE 15: DIRECT ROOF RUNOFF ONTO VEGETABLE AREA

NOTE 16: DIRECT RUNOFF FROM SIDEWALKS, WALKWAYS AND/ OR PATIOS ONTO VEGETABLE AREA

PUBLIC WORKS NOTES:

- Wastewater generated from the installation, cleaning, treating, and washing of the surface of copper features, including copper roof, shall be discharged to the sanitary sewers or landscaping or collect/haul off-site.
- All landscaping shall be maintained and shall be designed with efficient irrigation systems to reduce runoff, promote surface filtration, and minimize the use of fertilizers, herbicides and pesticides.
- Broken existing sidewalks and curbs shall be repaired as directed by City engineer in the field.
- Roof water down spouts discharging to two foot (or longer if desired) splash blocks must be provided to carry this rain water away from the foundation

REVISIONS

BY

PROJECT FOR YURI RABOVER
15724 APOLLO HEIGHTS CT,
SARATOGA, CA,

NATALIA AMATUNI
RESIDENTIAL DESIGN
n.amatuni@gmail.com
408 4200411

PROJECT NO.

DATE

A1
OF

SHEET NUMBER

$$X = \frac{81.37 + 71.89}{2} = 76.63$$

$$Y = \frac{78.39 + 75.09}{2} = 76.74$$

$$Z = \frac{76.63 + 76.74}{2} = 76.68$$

SITE PLAN LEGENT:

--- PROPERTY LINE
--- SETBACK LINE
--- NEW & EXISTING STRUCTURE

E -EXISTING TREE TO REMAIN
R -EXISTING TREE TO BE REMOVED
N -NEW TREE

--- 6' Wooden fence to remain

1 Fire hydrant

DS Downspout
S Water line
CO Sanitary Sewer line
Clean Out


RAIN GARDEN/ WATER RETENTION LANDSCAPING

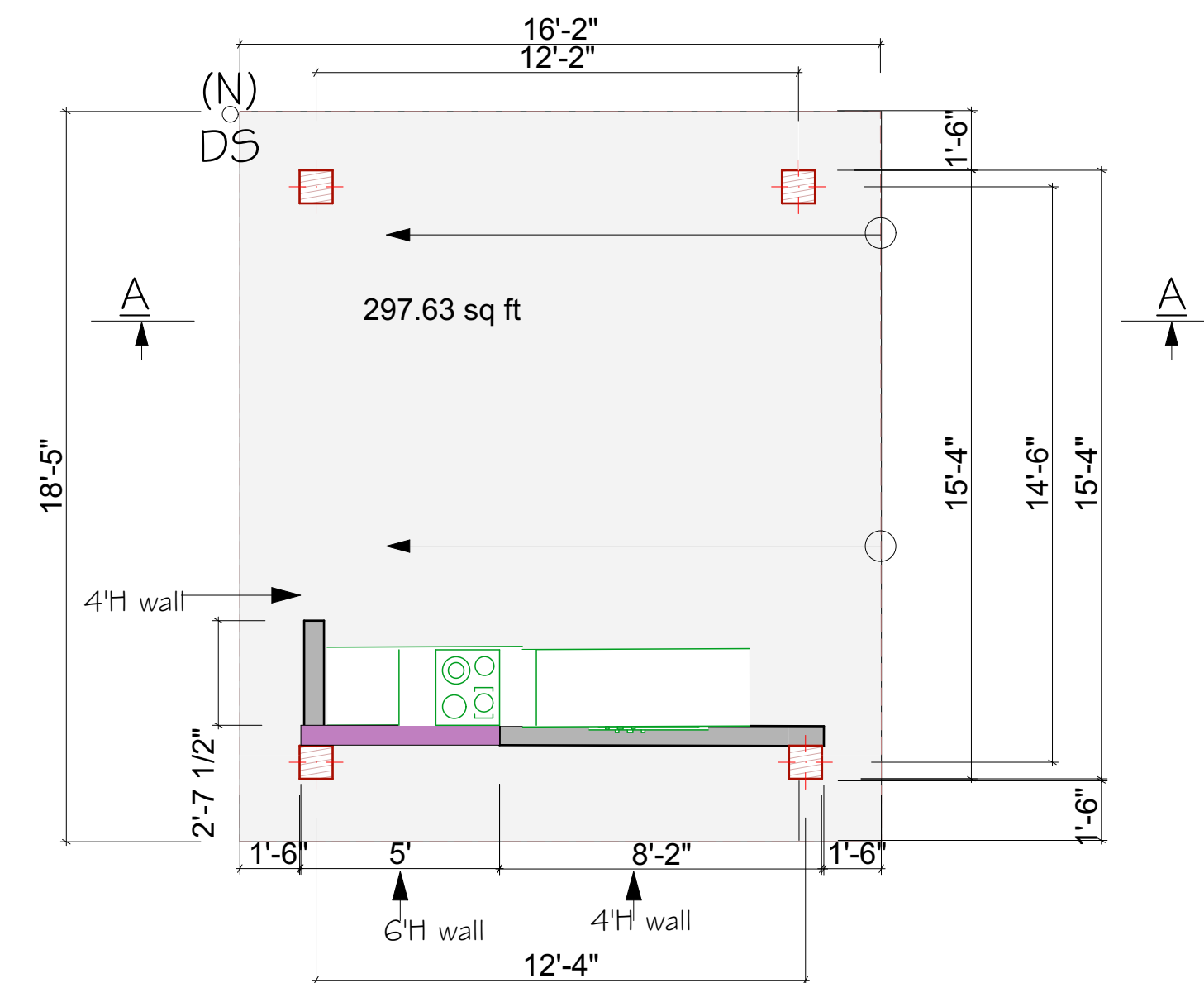
PLOT PLAN
1/16"=1'0"

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SHEET NUMBER	OF	A 2	DATE	PROJECT NO.	<p>NATALIA AMATUNI RESIDENTIAL DESIGN</p>  <p>n.amatuni@gmail.com 408 4200411</p>	BY	REVISIONS
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STEP 1-A

- MARK CUTS
- HORIZONTAL CUT
- VERTICAL CUT
- DIAGONAL CUT

STEP 1-B

- MEASURE GROSS R.O. (ROUGH OPENING) WITH 1/2" TOL.
- POSS. UP AND OUT OF WAY
- POSS. BACK
- NO. 10 PLATE

STEP 1-C

- POSS. HIDE
- BEHIND PLATE

STEP 2

- EXTERIOR WEATHERSTRIP
- 1/2" UP OF 1/2" TOL.
- OF 1/2" PLATE WITH WEATHERSTRIP
- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)

STEP 3

- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)
- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)

STEP 4

- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)
- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)

STEP 5

- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)
- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)

STEP 6

- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)
- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)

WINDOW HEAD DETAIL

- 1/2" UP OF 1/2" TOL.
- OF 1/2" PLATE WITH WEATHERSTRIP
- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)
- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)
- EXTERIOR WEATHERSTRIP TO HIDE EDGE OF WEATHERSTRIP
- POSS. HIDE (POSS. WEATHERSTRIP)

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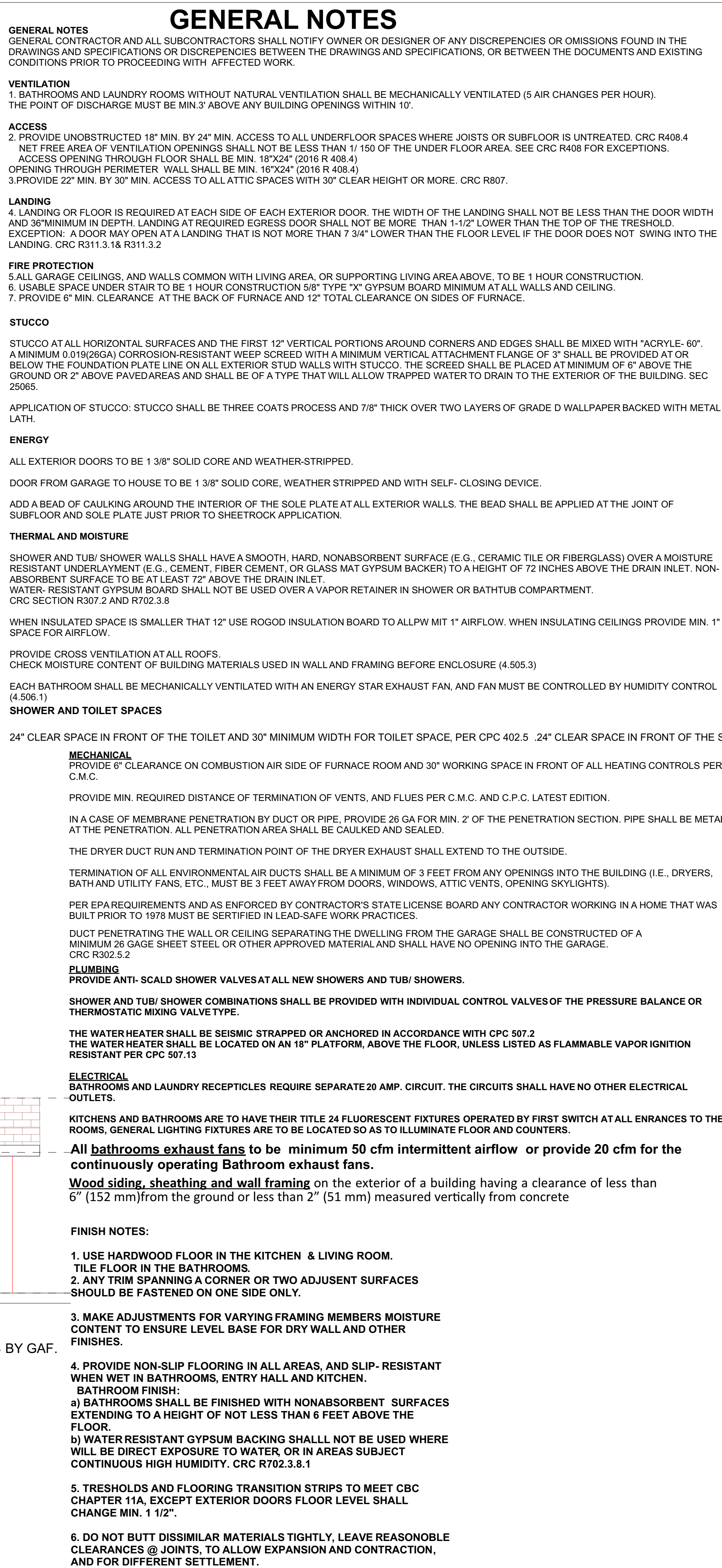
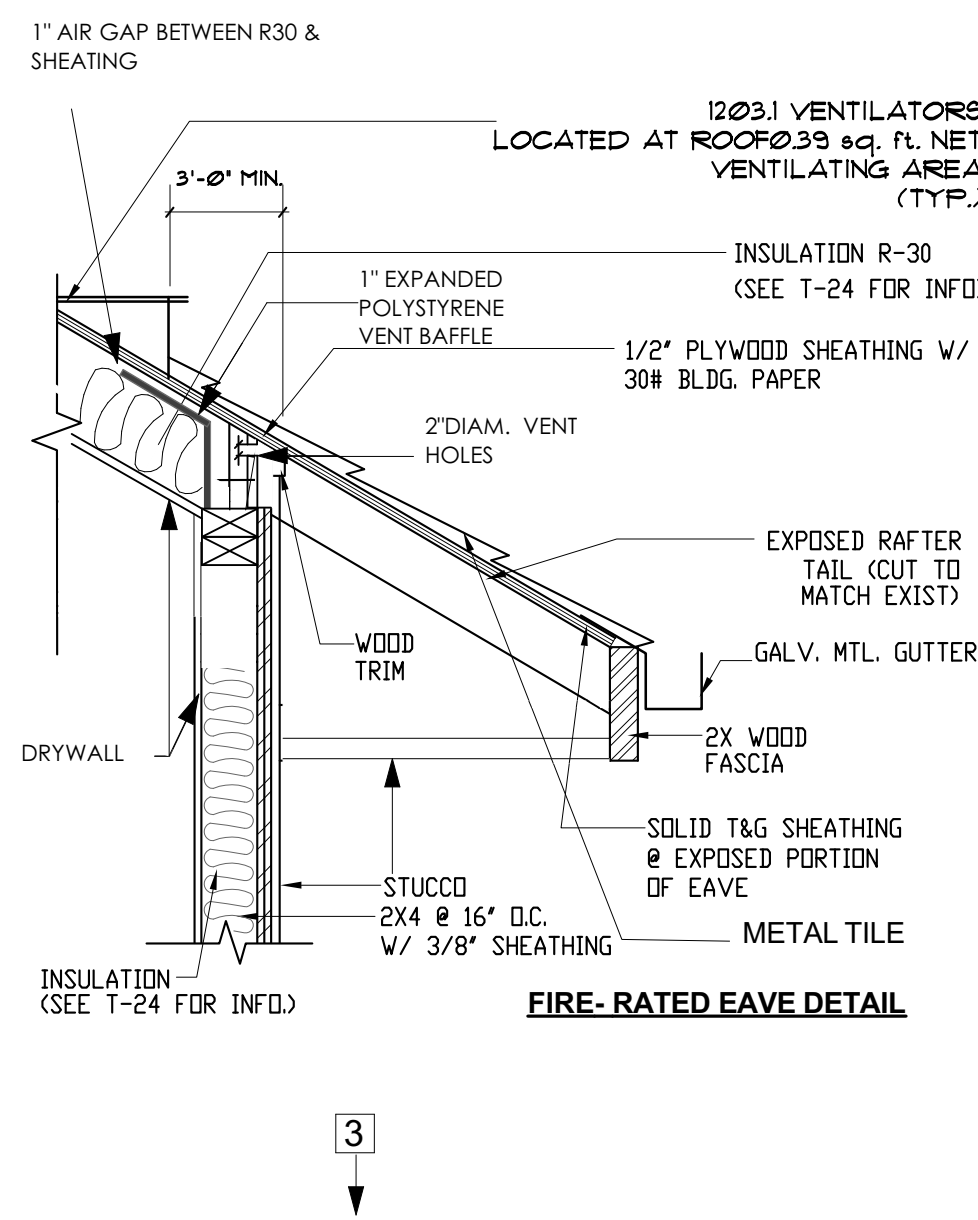
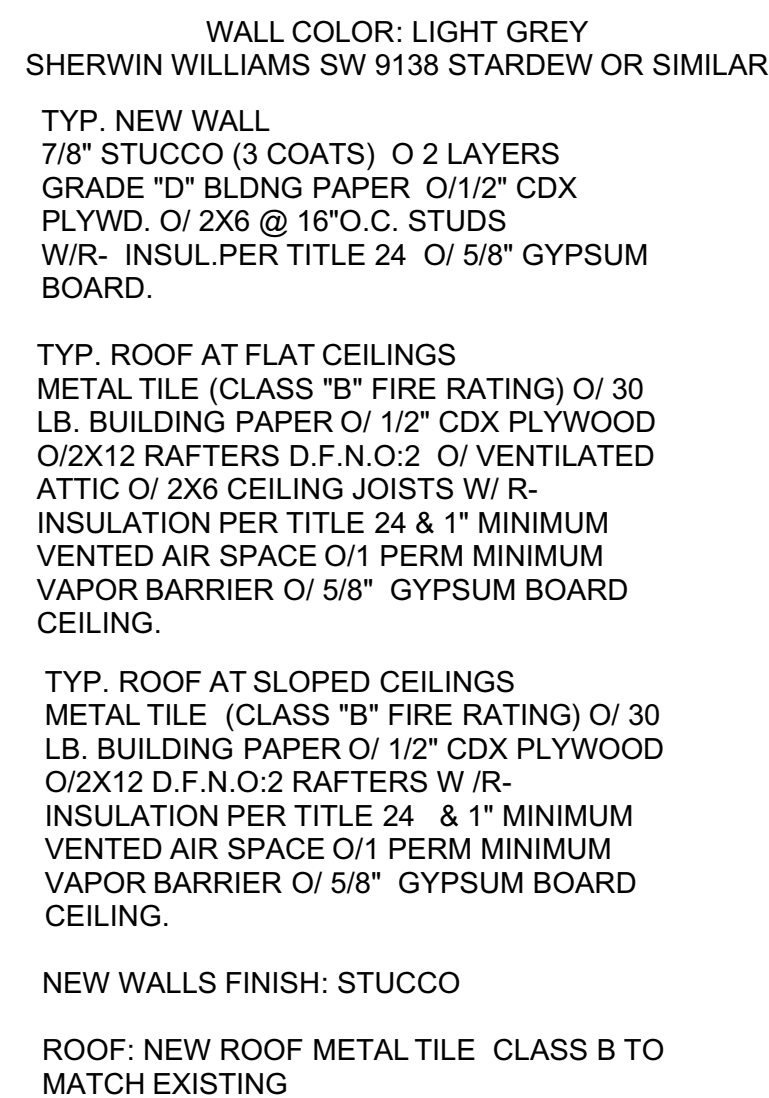
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105ANA
SINGLE-STAGE AIR-CONDITIONER
WITH PURON® REFRIGERANT
1-1/2 TO 5 TONS



Product Data



Bryant's Air Conditioners with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 105ANA has been designed utilizing Bryant's non-ozone depleting Puron refrigerant.

INDUSTRY LEADING FEATURES / BENEFITS

Efficiency

- 14.0 - 16.5 SEER / 11.7 - 13.5 EER
- Microtube Technology™ refrigeration system

Reliability

- Puron® refrigerant
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Filter drier

Durability

- DuraGuard™ protection package:
- Solid, durable sheet metal construction
- Dense wire coil guard

Applications

- Long-line -- up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient (down to -10°F/-23°C) with accessory kit

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

REQUIRED VENTILATION

696 SQ.FT. OF NEW VENTED AREA
(696x144)=150=668 SQ.IN.
(PER R 806.2 OF 2016 CALIFORNIA RESIDENTIAL CODE
REQUIRED OPENINGS AREA 1/150 OF VENTILATED AREA IF
APPROVED VAPOR BARRIER PROVIDED).
REQUIRED OPENINGS ON TWO SIDES
(LOW VENTS- INTAKE AND RIDGE VENTS- HIGH VENTS-
EXHAUST)
668-2=334 SQ.IN. OF INTAKE NET FREE AREA & 334 SQ.IN.
OF EXHAUST NET FREE AREA.

EXHAUST-5
O'Hagin Tapered Low-Profile
72.0 sq. in NFVA

INTAKE: 5

O'Hagin Tapered Low-Profile
72.0 sq. in NFVA

NOTE 1:
ROOF GUTTERS SHALL BE
PROVIDED WITH GUTTER SCREENS
TO PREVENT THE ACCUMULATION
OF LEAVES AND DEBRIS IN THE
GUTTER.

NEW ROOF: ASPHALT SHINGLELESS,
CLASS "A"MIN

LEGEND:

DS DOWNSPOUT

O'Hagin Low/ Medium Profile Model roofvent

CRAWL SPACE VENTILLATION

696 SQ.FT. OF NEW POOL HOUSE CRAWL SPACE HAS
TO BE VENTILATED.

1. CRAWL SPACE VENTILATION CALCS
CRAWL SPACE AREA - VENTILATED AREA 696 SQ.FT.
REQUIRED TOTAL OPENING AREA
A : 15=696 X144:150= 668 SQ.IN.
2. EA OPENING - 4"X14"=56 SQ/IN.
3. REQUIRED NUMBER OF OPENINGS: 12
DISTRIBUTE OPENINGS EVENLY ON BOTH SIDES OF ADDITION FOR CROSS
VENTILATION AS SHOWN ON ELEVATIONS.
4. PROVIDE 1/8" DENSE WIRE MESH SCREEN TO OPENINGS

Deck Slope:

1. Asphalt shingles shall only be used on roof slopes of 2 units vertical in 12 units horizontal (17% slope) up to 4 units vertical in 12 units horizontal (33% slope), with double underlayment applications, per CRC R905.2.2 and CBC 1507.2.2.
2. Clay and concrete roof tile shall be installed on roof slopes of 2.5 units vertical in 12 units horizontal (21% Slope) or greater. For roof slopes from 2.5 units vertical in 12 units horizontal (21% slope) to 4 units vertical in 12 units horizontal (33% slope), double underlayment application is required, per CRC R905.3.2 and CBC 1507.3.2.
3. Metal roof panels, per CRC R905.4.2 and CBC1507.4.2
 - i. The minimum slope for lapped, nonsoldered seam metal roofs without applied lap sealant shall be 3 units vertical in 12 units horizontal (25% slope).
 - ii. The minimum slope for lapped, nonsoldered seam metal roofs with applied lap sealant shall be 0.5 vertical in 12 units horizontal (4% slope).

The minimum slope for standing seam of roof systems shall be 0.25 unit vertical in 12 units horizontal (2% slope).

PER CRC R 302.1.1 INSTALL FIRE BLOCKING
BETWEEN THE TOP OF THE WALL AND THE ROOF
SHEATHING FOR UNPROTECTED ROOF
EAVES.

a. Roof eave fire-resistance rating shall be
permitted to be reduced to 0 hours on the
underside of the eave if fire blocking is provided
from the wall top plate to the underside of the
roof sheathing.

FLASHING TO BE INSTALLED WHERE THE EXTERIOR WALL MEETS THE ROOF LINE PER CRC R903.2.1

R109.1.5.3 WEATHER- EXPOSED BALCONY AND WALKIN SURFACE WATERPROOFING

WHERE BALCONIES OR OTHER ELEVATED WALKING SURFACES ARE EXPOSED TO WATER FROM DIRECT OR BLOWING RAIN, SNOW,OR IRRIGATION AND THE STRUCTURAL FRAMIG IS PROTECTED BY AN IMPERVIOUS MOISTURE BARRIER, ALL ELEMENTS OF THE IMPERVIOUS MOISTURE BARRIER SYSTEM SHALL NOT BE CONCEALED UNTIL INSPECTED AND APPROVED.

EXCEPTION: WHERE SPECIAL INSPECTIONS ARE PROVIDED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE SECTION 1705.1.1. ITEM 3.

OVERFLOW DRAINS SHALL DISCHARGE TO AN APPROVED LOCATION (CLOSE PIPE TO THE CITY STORM DRAIN SYSTEM OR CITY APPROVED SITE STORM RETENTION/ DISSIPATION SYSTEM AND SHALL NOT BE CONNECTED TO ROOF DRAIN LINES.

ALL BALCONY MEMBERS SHALL BE PRESSURE TREATED PER CBC R317.1.3.

VENT NOTE:

1. Required attic ventilation may be achieved by relocating intake vents from the underside of eaves or in the frieze blocks between rafter tails to the roof deck (e.g. ventilation through the field of roof shingles located on the lower portion of the roof above or near the exterior wall). Any non-combustible & non-corrosive attic vent installed on the roof or as a gable vent with openings between 1/4 -inch and 1/4-inch in size fully complies with the code. This does not apply to vents installed in eaves and cornices which are prohibited by Section 704A.2.2(see next option #2).

2. Vents may only be installed in eaves and cornices as allowed for by the exception to Section 704A.2.2 with the use of specialized eave vents which resist the intrusion of flame and burning embers as approved by the enforcing agency.

The Vulcan Technologies eave vents :

Model No. (GMFG #)

VE3522(S) 3.5" X 22" Eave
VE5522(S) 5.5" X 22" Eave
VE3514(S) 3.5" X 14" Eave
VE5514(S) 5.5" X 14" Eave
VER 2 2" RND Eave
VER 3 3" RND Eave
VFS414(S,FF,FB) 4" X 14" Soffit
VFS614(S,FF,FB) 6" X 14" Soffit
VFS814(S,FF,FB) 8" X 14" Soffit
VSC2120 2" X 120" Soffit

The Lomanco eave vent :

Model No. (GMFG #)

750 ES (Aluminum) Roof vent

PROPOSED DROWNING PREVENTION SAFETY FEATURES:

1. AN ENCLOSURE THAT MEETS THE REQUIREMENT OF SECTION 115923 AND ISOLATED THE HOT TUB FROM THE RESIDENCE
2. AN APPROVED SAFETY POOL COVER PER SECTION 115921.
3. EXIT ALARMS ON THE PRINE'S DOOR THAT PROVIDE DIRECT ACCESS TO THE HOT TUB.

BARRIERS FOR SWIMMING POOLS, SPAS AND HOT TUBS

BUILDING SERVICES

The following information is based on the requirements for barriers set forth in the 2016 California Building Code and updated to meet legislation passed under Senate Bill No. 442 (Newman) effective January 1, 2018.

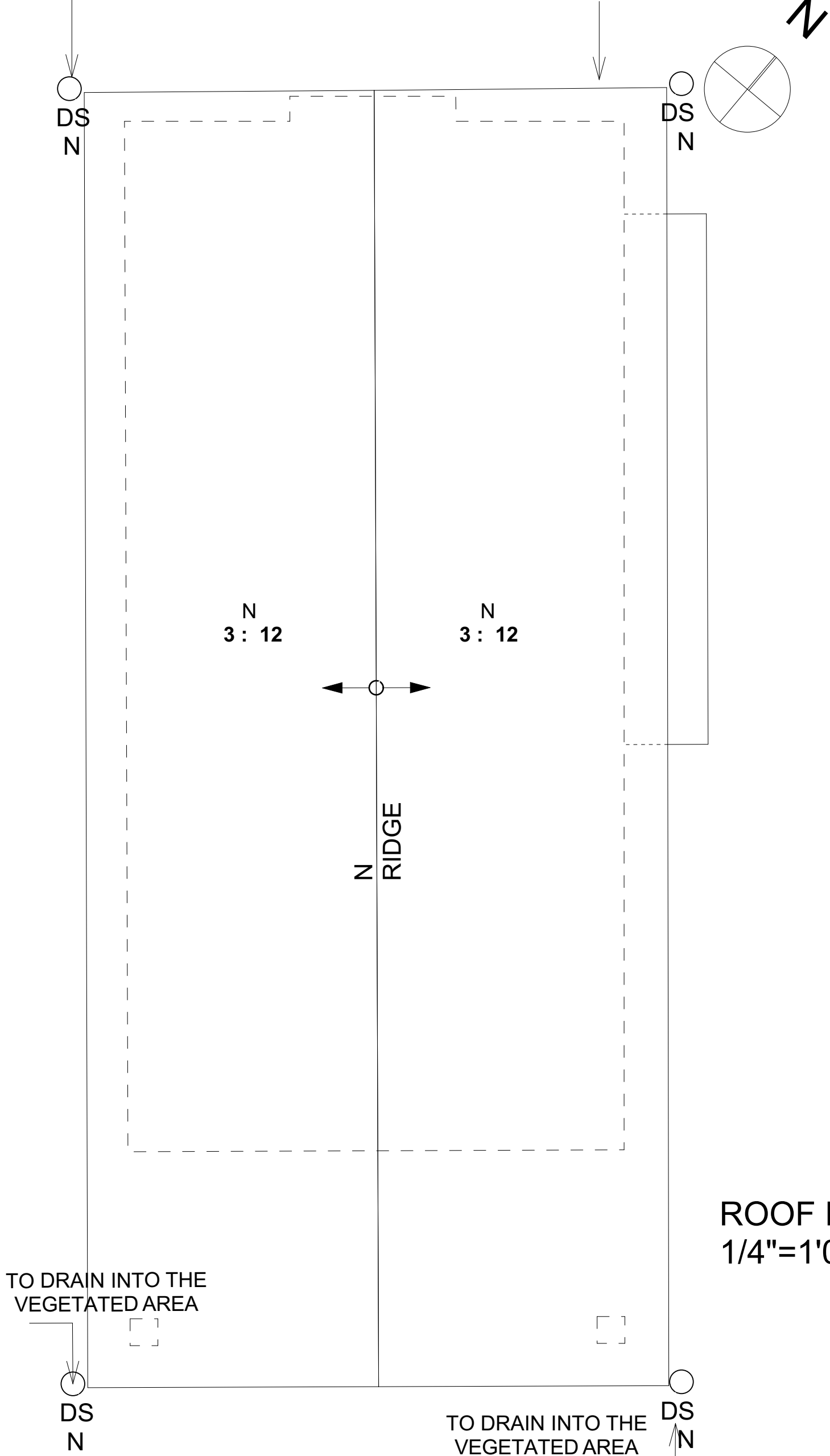
Except as provided in Section 115925, when a building permit is issued for the construction of a new swimming pool or spa or the remodeling of an existing swimming pool or spa at a private single-family home, the respective swimming pool or spa shall be equipped with at least two of the following seven drowning prevention safety features in addition to an approved barrier meeting the specifications outlined in Item 1 that isolates the pool from the surrounding neighborhood:

1. An enclosure that meets the requirements of Section 115923 and isolates the swimming pool or spa from the private single-family home. An enclosure shall have all of the following characteristics:
 - a. Any access gates through the enclosure open away from the swimming pool and are self-closing with a self-latching device placed no lower than 60 inches above the ground.
 - b. A minimum height of 60 inches.
 - c. A maximum vertical clearance from the ground to the bottom of the enclosure of two inches.
 - d. Gaps or voids, if any, do not allow passage of a sphere equal to or greater than four inches in diameter.
 - e. An outside surface free of protrusions, cavities, or other physical characteristics that would serve as handholds or footholds that could enable a child below the age of five years to climb over.
2. Removable mesh fencing that meets American Society for Testing and Materials (ASTM) Specifications F2286 standards in conjunction with a gate that is self-closing and self-latching and can accommodate a key lockable device.
3. An approved safety pool cover, as defined in subdivision (d) of Section 115921.
4. Exit alarms on the private single-family home's doors that provide direct access to the swimming pool or spa. The exit alarm may cause either an alarm noise or a verbal warning, such as a repeating notification that "the door to the pool is open."
5. A self-closing, self-latching device with a release mechanism placed no lower than 54 inches above the floor on the private single-family home's doors providing direct access to the swimming pool or spa.
6. An alarm that, when placed in a swimming pool or spa, will sound upon detection of accidental or unauthorized entrance into the water. The alarm shall meet and be independently certified to the ASTM Standard F2208 "Standard Safety Specification for Residential Pool Alarms," which includes surface motion, pressure, sonar, laser, and infrared type alarms. A swimming protection alarm feature designed for individual use, including an alarm attached to a child that sounds when the child exceeds a certain distance or becomes submerged in water, is not a qualifying drowning prevention safety feature.
7. Other means of protection, if the degree of protection afforded is equal to or greater than that afforded by any of the features set forth above and has been independently verified by an approved testing laboratory as meeting standards for those features established by the ASTM or the American Society of Mechanical Engineers (ASME).

In addition to two of the items listed above, a barrier meeting the specifications outlined in Item 1 that isolates the pool from the surrounding neighborhood is also required for a total of three approved drowning prevention safety measures.

TO DRAIN INTO THE
VEGETATED AREA

TO DRAIN INTO THE
VEGETATED AREA



ROOF PLAN 1/4"=1'0"

CA. RESIDENTIAL CODE R311.7.8

R311.7.8 Handrails. Handrails shall be provided on not less than one side of each continuous run of treads or flight with four or more risers.

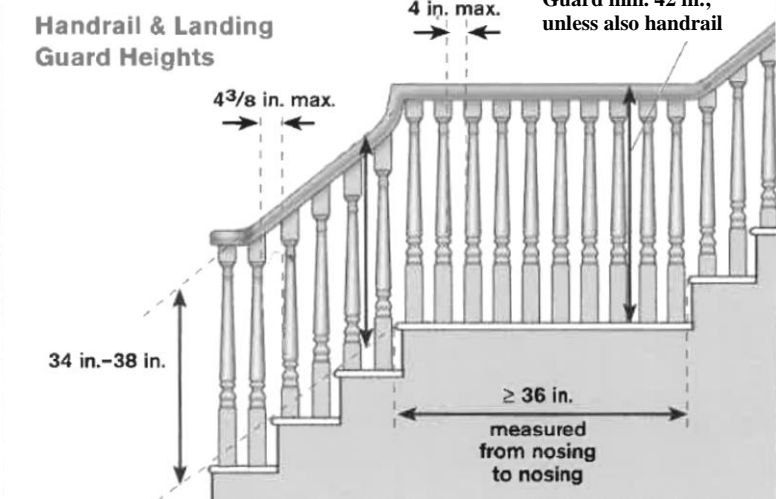
R311.7.8.1 Height. Handrail height, measured vertically from the sloped plane adjoining the tread nosing, or finish surface of ramp slope, shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm).

R311.7.8.2 Continuity. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than 1 1/2 inch (38 mm) between the wall and the handrails.

Exceptions:

- (1) Handrails shall be permitted to be interrupted by a newel post at the turn.
- (2) The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.

FIG. 20



STAIRWAYAND GUARD RAIL NOTES:

STAIRWAY SHALL BE NOT LESS THAN 36" IN WIDTH. RISERS SHALL BE NO GREATER THAN 7 3/4". TREADS SHALL BE MIN. 10" FROM NOSING TO NOSING. A NOSING MEASURING 3/4" MIN TO 1 1/4" MAX REQUIRED ON STAIRS WHERE TREAD DEPTH IS LESS THAN 11". MIN. HEADROOM CLEARANCE IS 6'8".

OPENINGS FOR REQUIRED GUARDS ON THE SIDES OF STAIR - BETWEEN BALUSTERS OR BETWEEN POST AND BALUSTER- SHALL NOT ALLOW A 4" DIAMETER SPHERE TO PASS THROUGH.

THE SPACE BETWEEN THE FINISHED FLOOR AND THE BOTTOM RAIL MUST NOT EXCEED 4 INCHES.

THE BALUSTRADE MUST BE ABLE TO WITHSTAND 200 POUNDS OF FORCE OF PRESSURE AT ANY POINT.

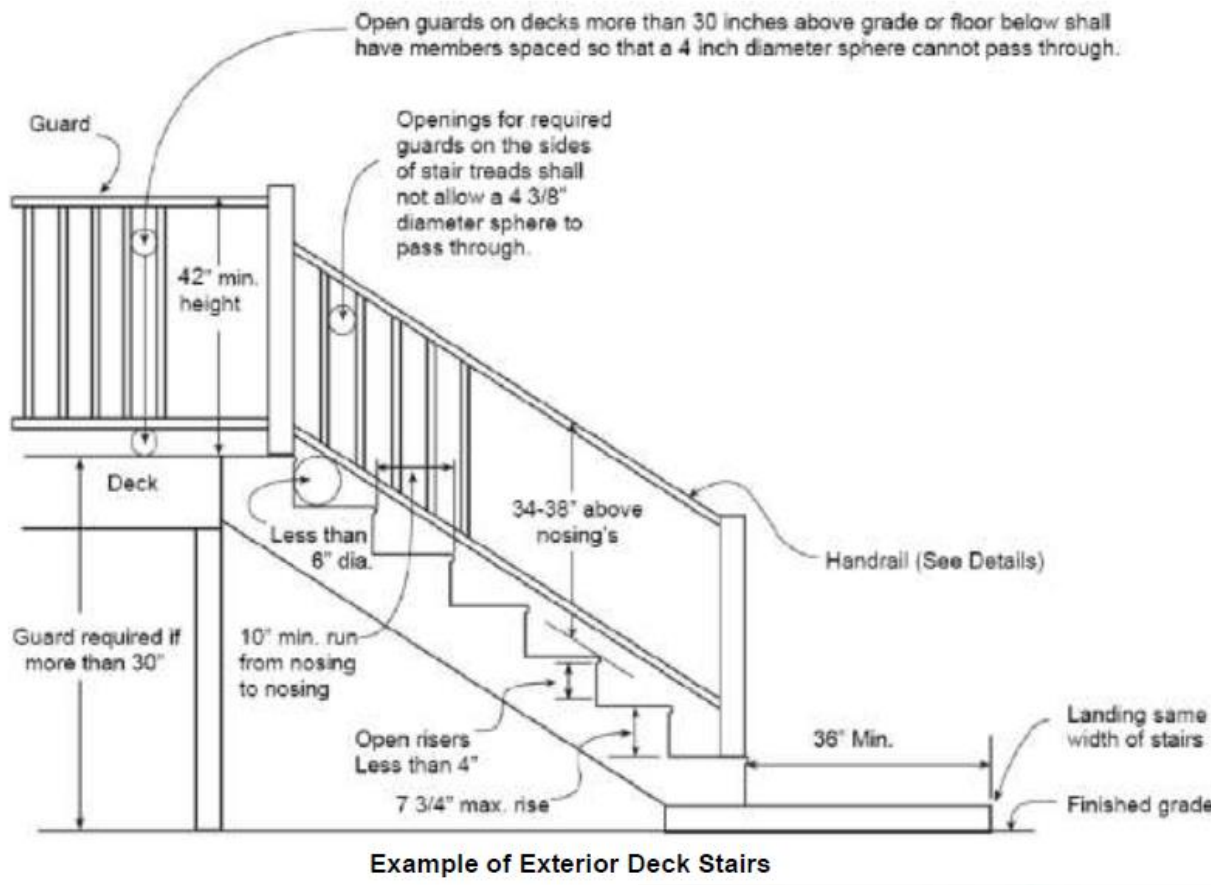
THE MINIMUM BALUSTRADE HEIGHT IS 42 INCHES

TRIM SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 3 1/2 INCHES. HANDRAILS MAY PROJECT FROM EACH SIDE OF A STAIRWAY A DISTANCE OF 3 1/2 INCHES INTO THEIR EQUIRED WIDTH.

PROVIDE 42" MIN. HIGH GUARD RAILS AT BALCONIES AND PORCHES AT HIGHT GREATER THAN 30" FINISHED GRADE WHICH IS MEASURED AS MUCH AS 3' OUT.

GUARDRAILS

2016 CA. RESIDENTIAL CODE R312



Example of Exterior Deck Stairs

R312.1 Guards. Guards shall be provided in accordance with Sections R312.1.1 through R312.1.4.

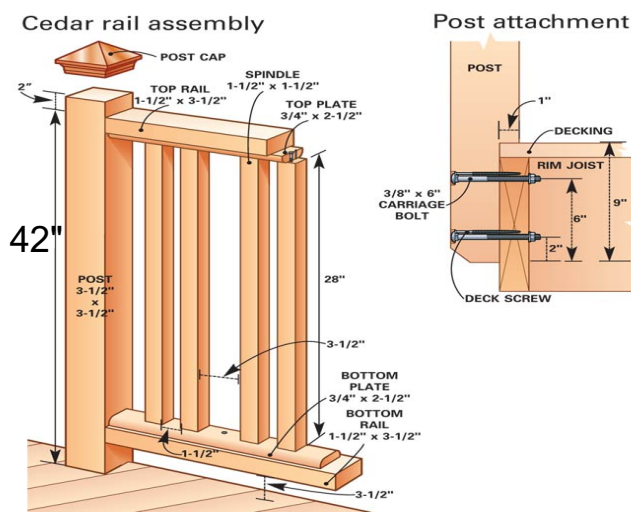
R312.1.1 Where required. Guards shall be located along open-sided walking surfaces, including stairs, ramps and landings that are located more than 30 inches (762 mm) measured vertically to the floor or grade below at any point within 26 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

R312.1.2 Height. Required guards at open-sided walking surfaces, including stairs, porches, balconies or landings, shall not be less than 42 inches (1067 mm) in height as measured vertically above the adjacent walking surface or the line connecting the leading edges of the treads.

Exceptions:

1. Guards on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.
2. Where the top of the guard serves as a handrail on the open sides of stairs, the top of the guard shall be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) as measured vertically from a line connecting the leading edges of the treads.

Winder treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point 12 inches (305) mm from the side where the treads are narrower.



RAILING DETAILS

REVISIONS

BY

PROJECT FOR YURI RABOVER
15724 APOLLO HEIGHTS CT,
SARATOGA, CA,

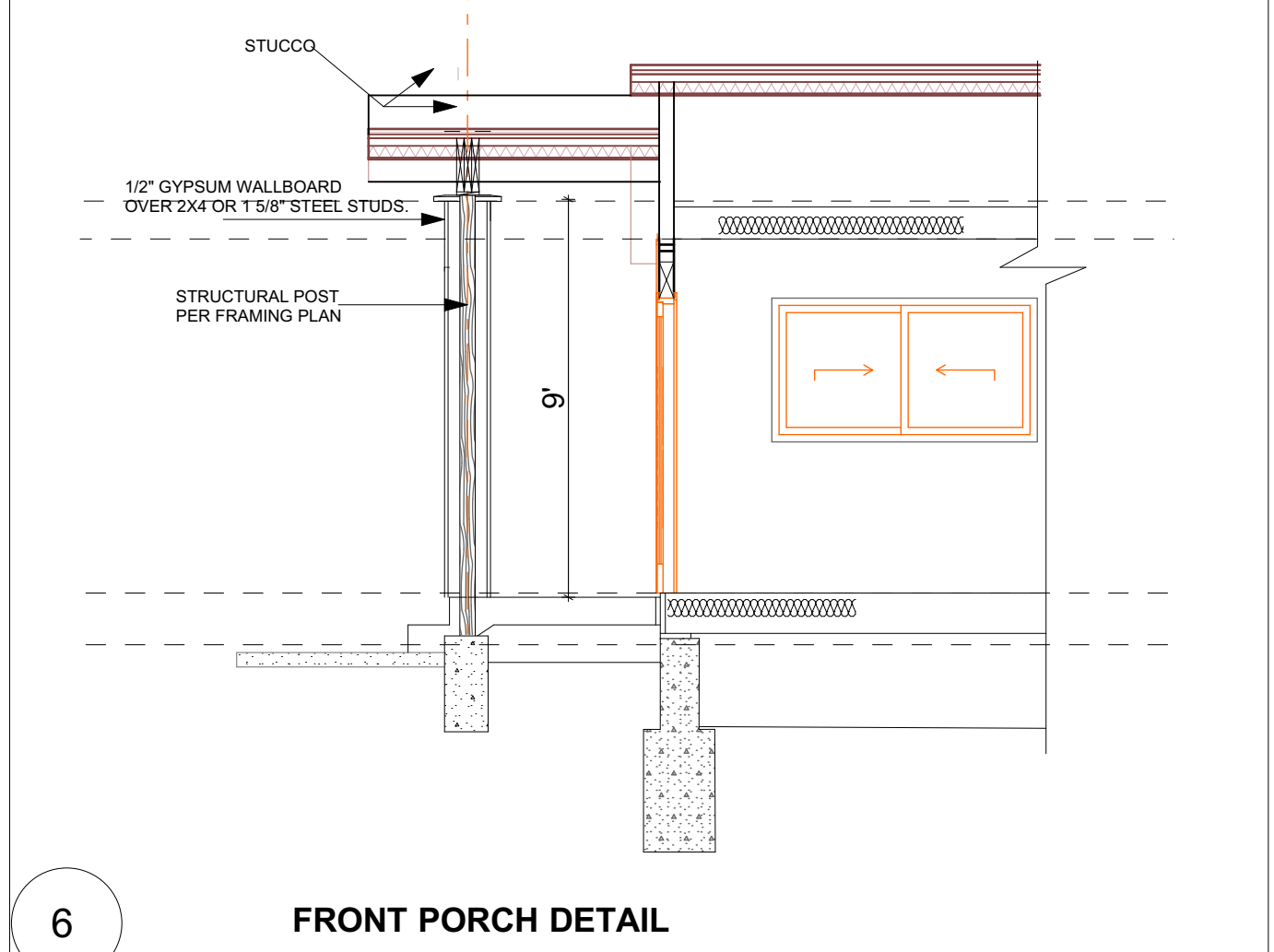
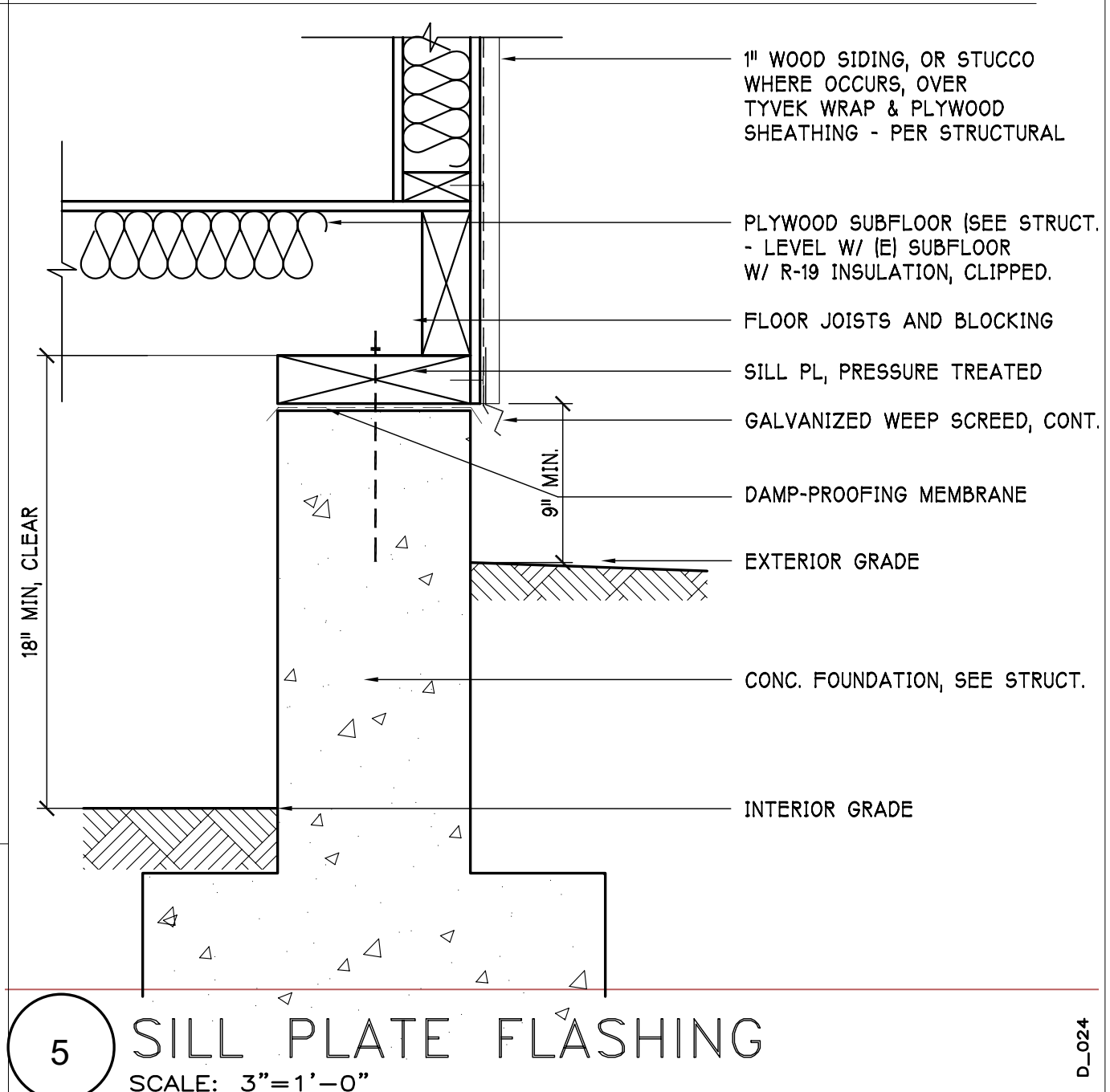
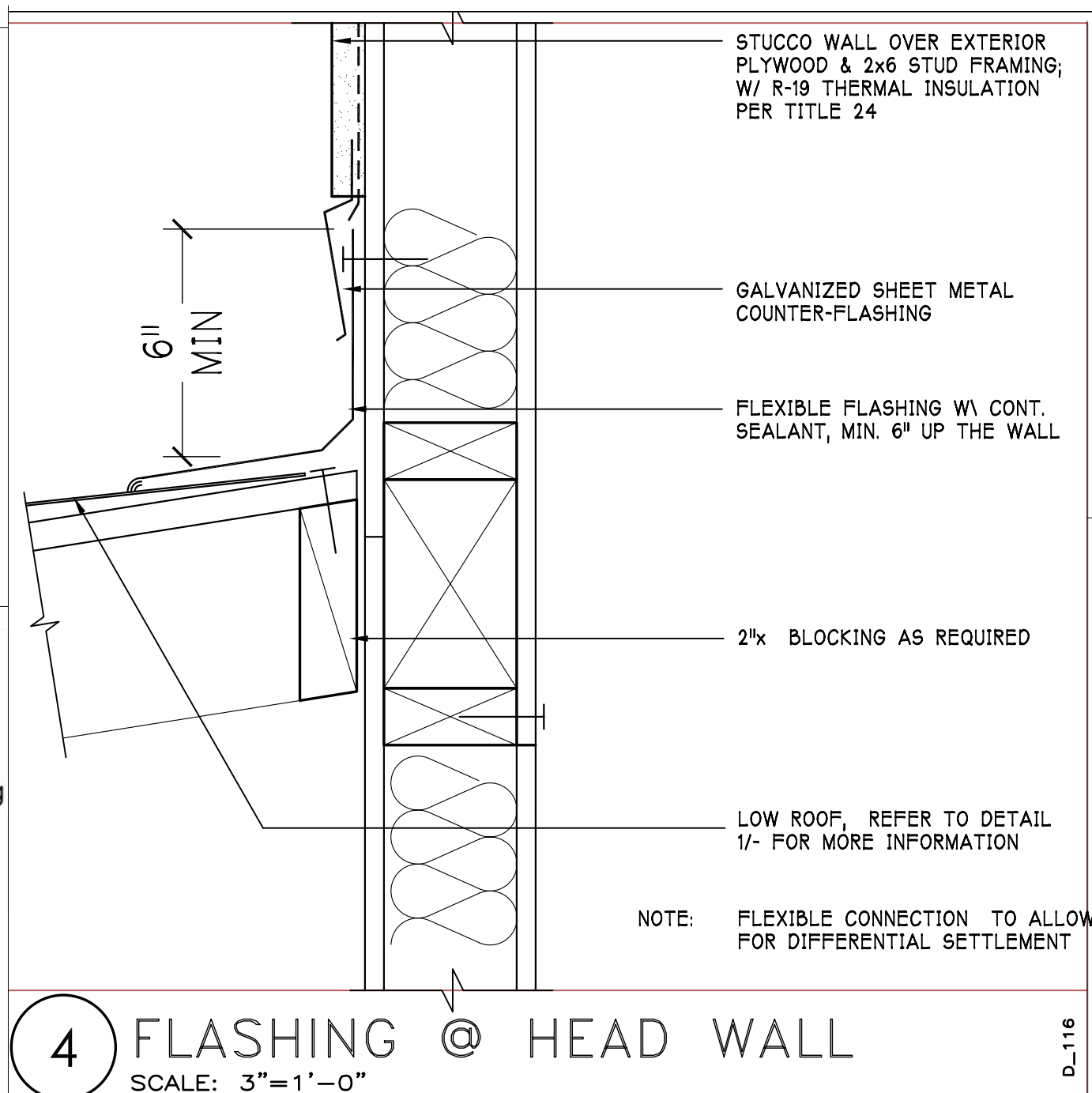
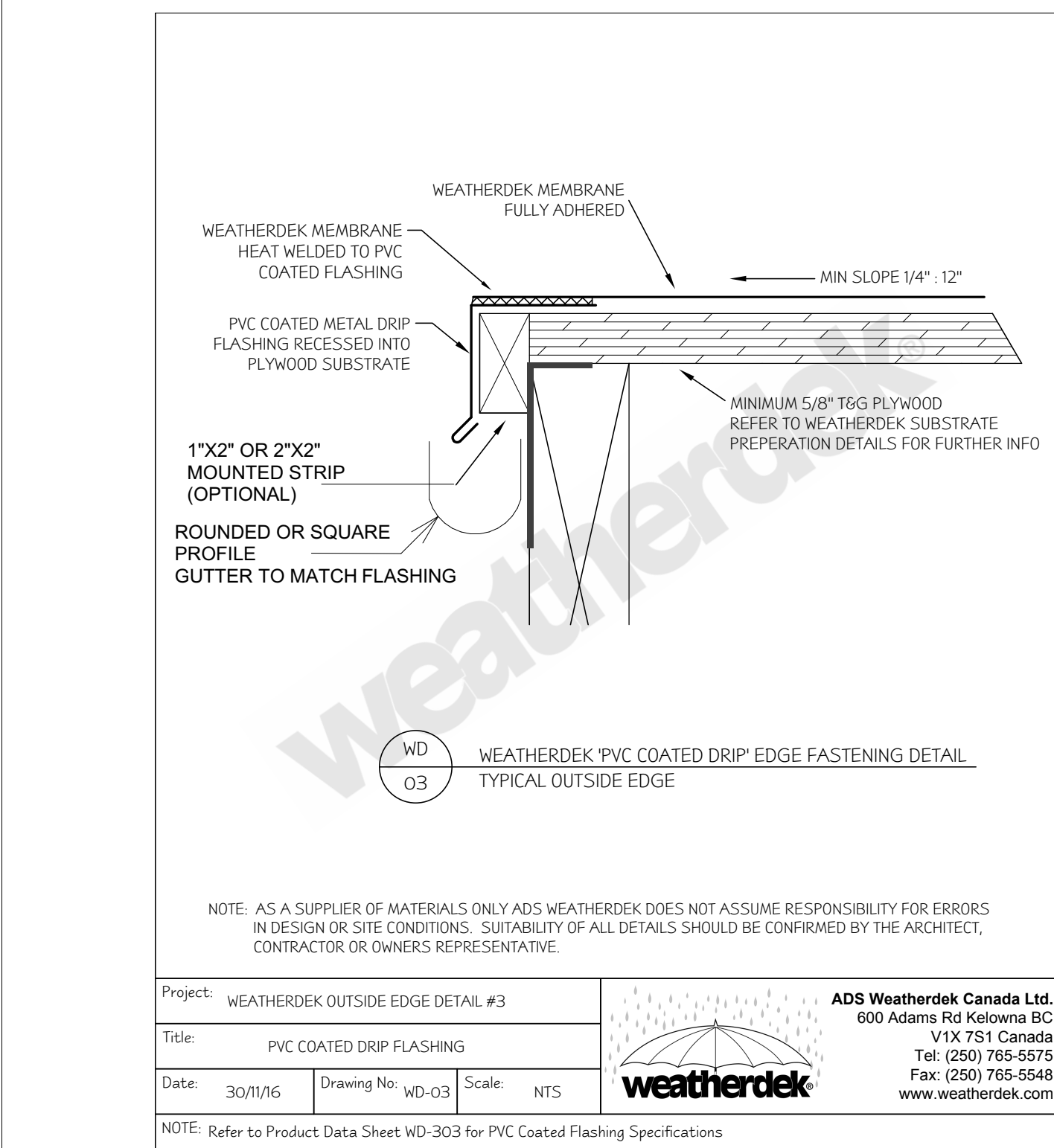
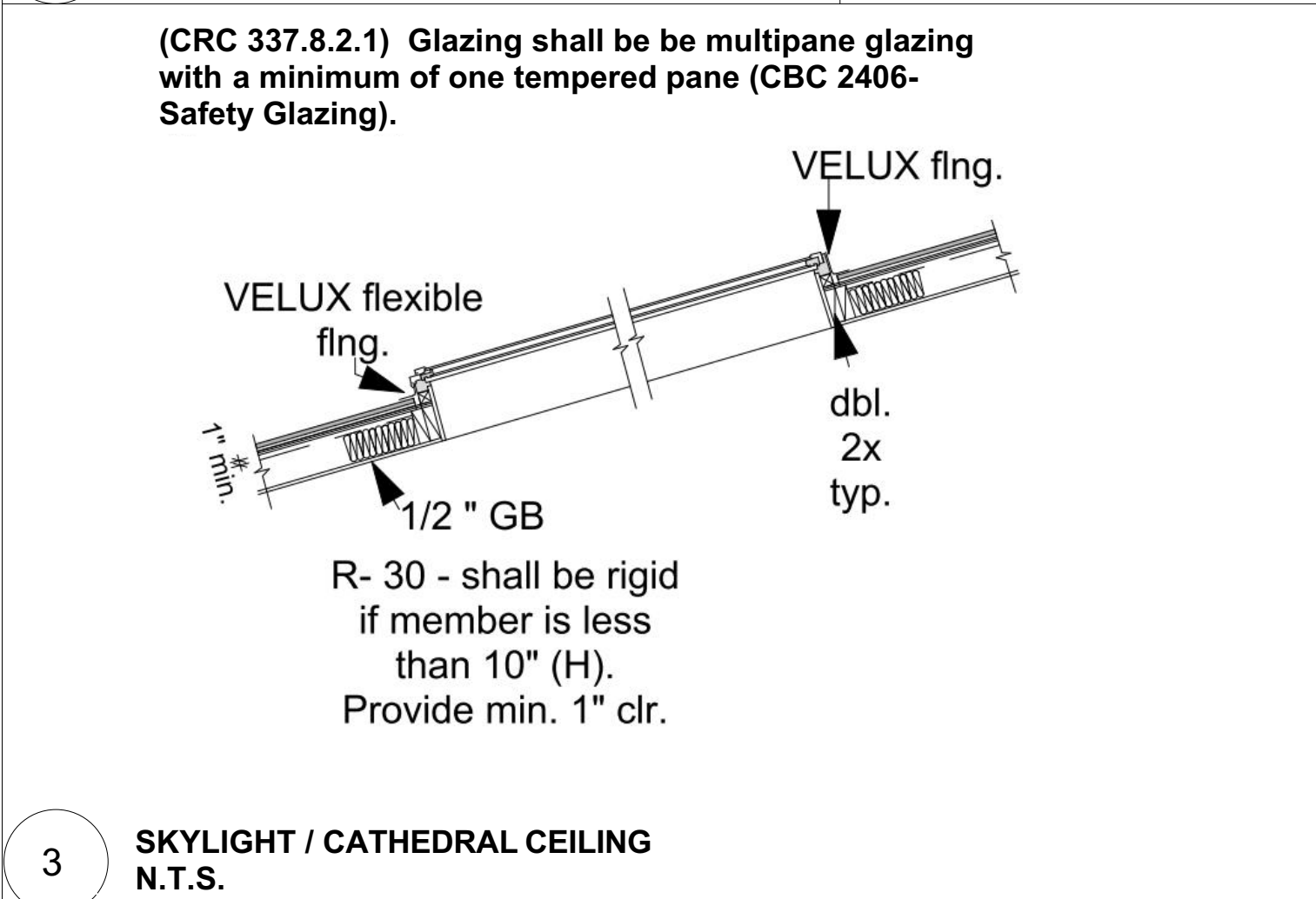
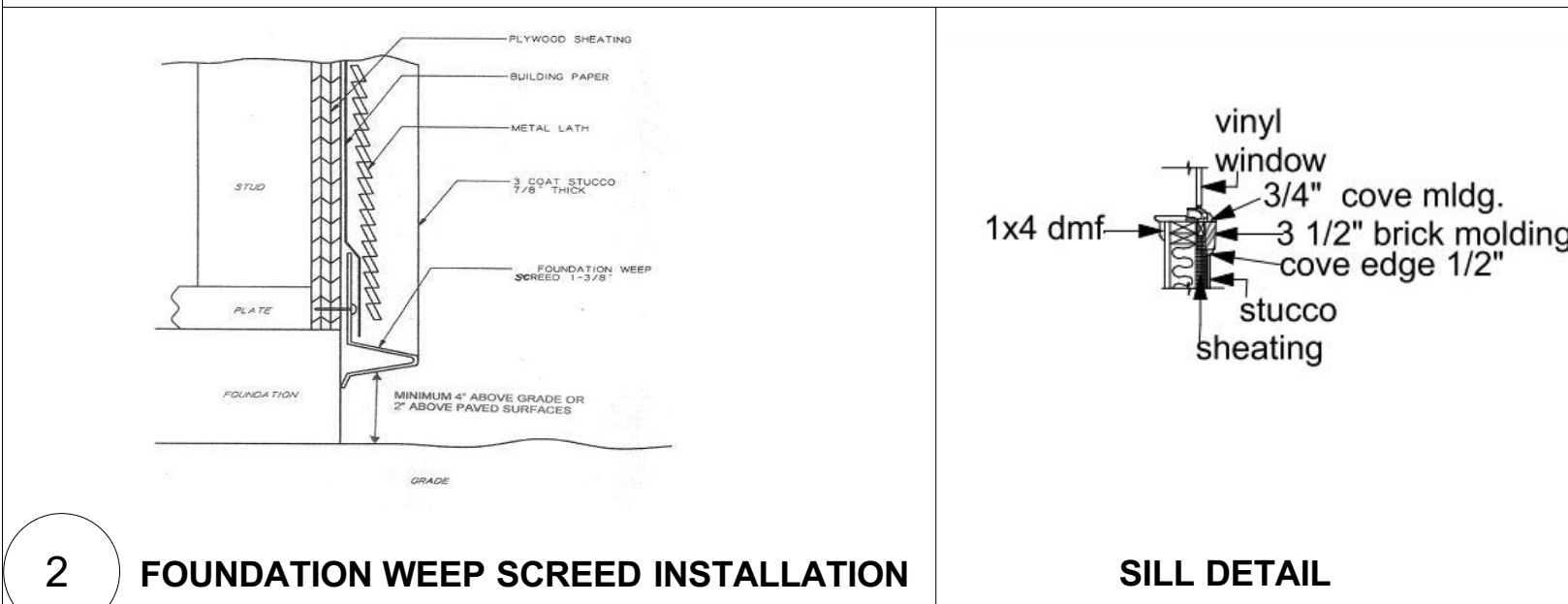
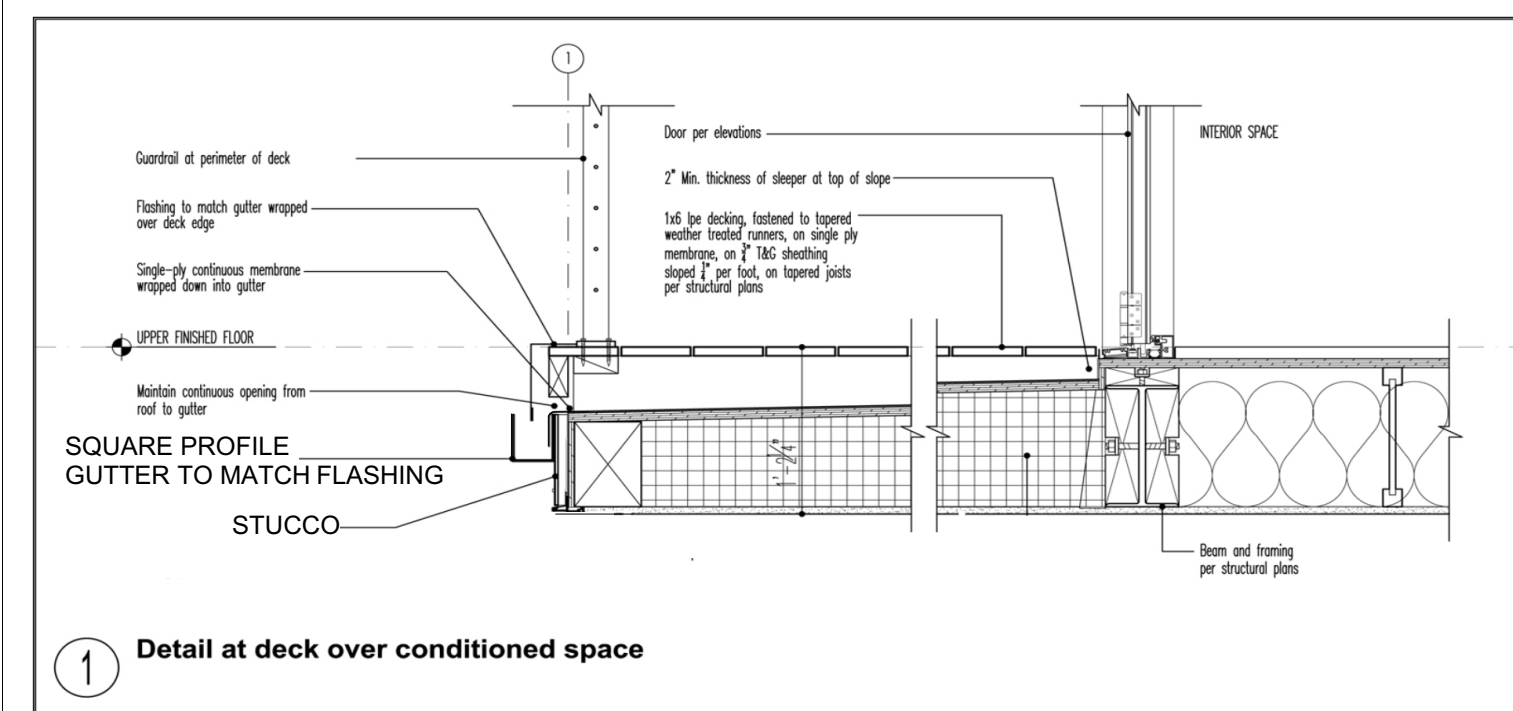
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PROJECT NO.

DATE

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SHEET NUMBER

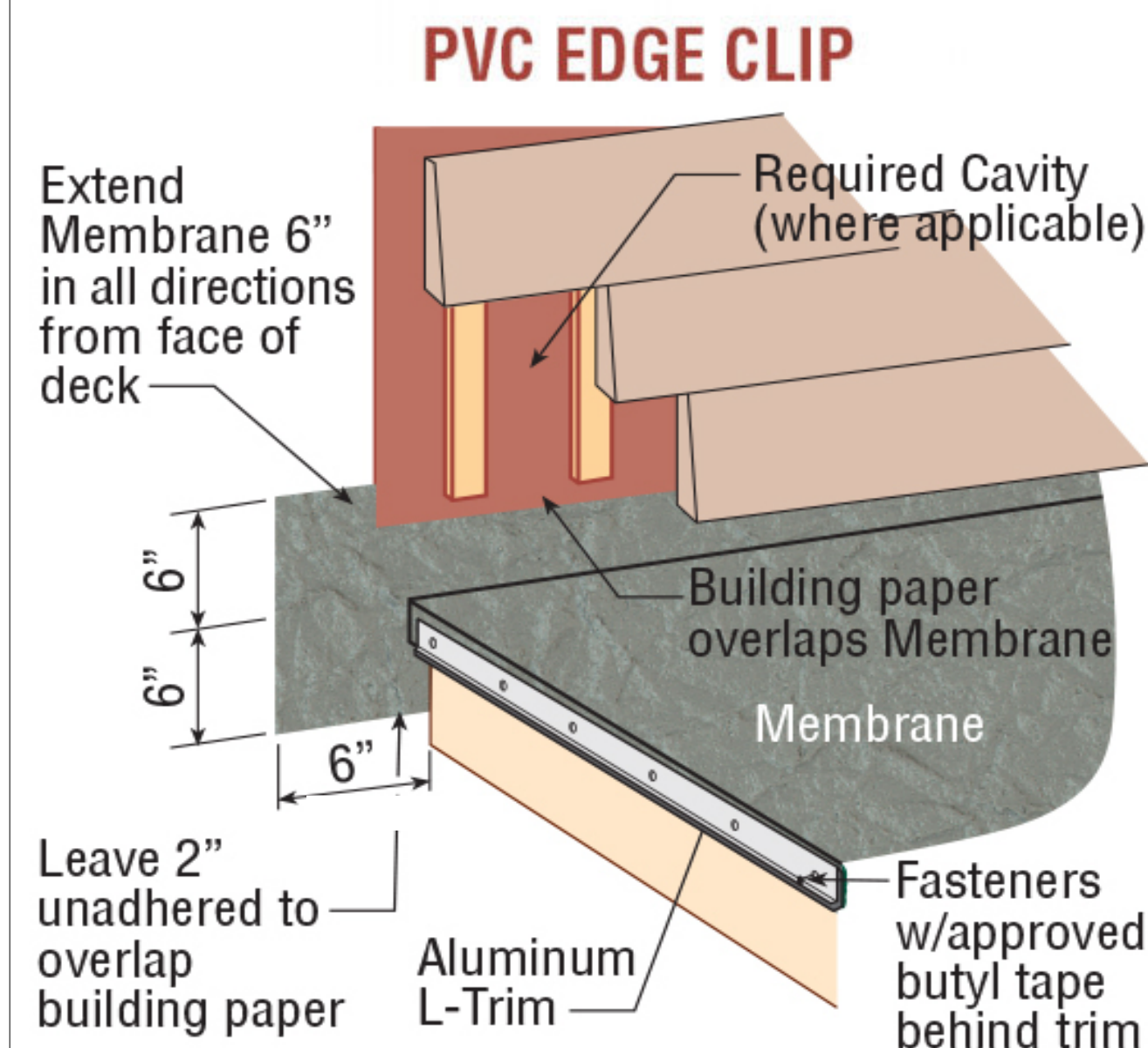
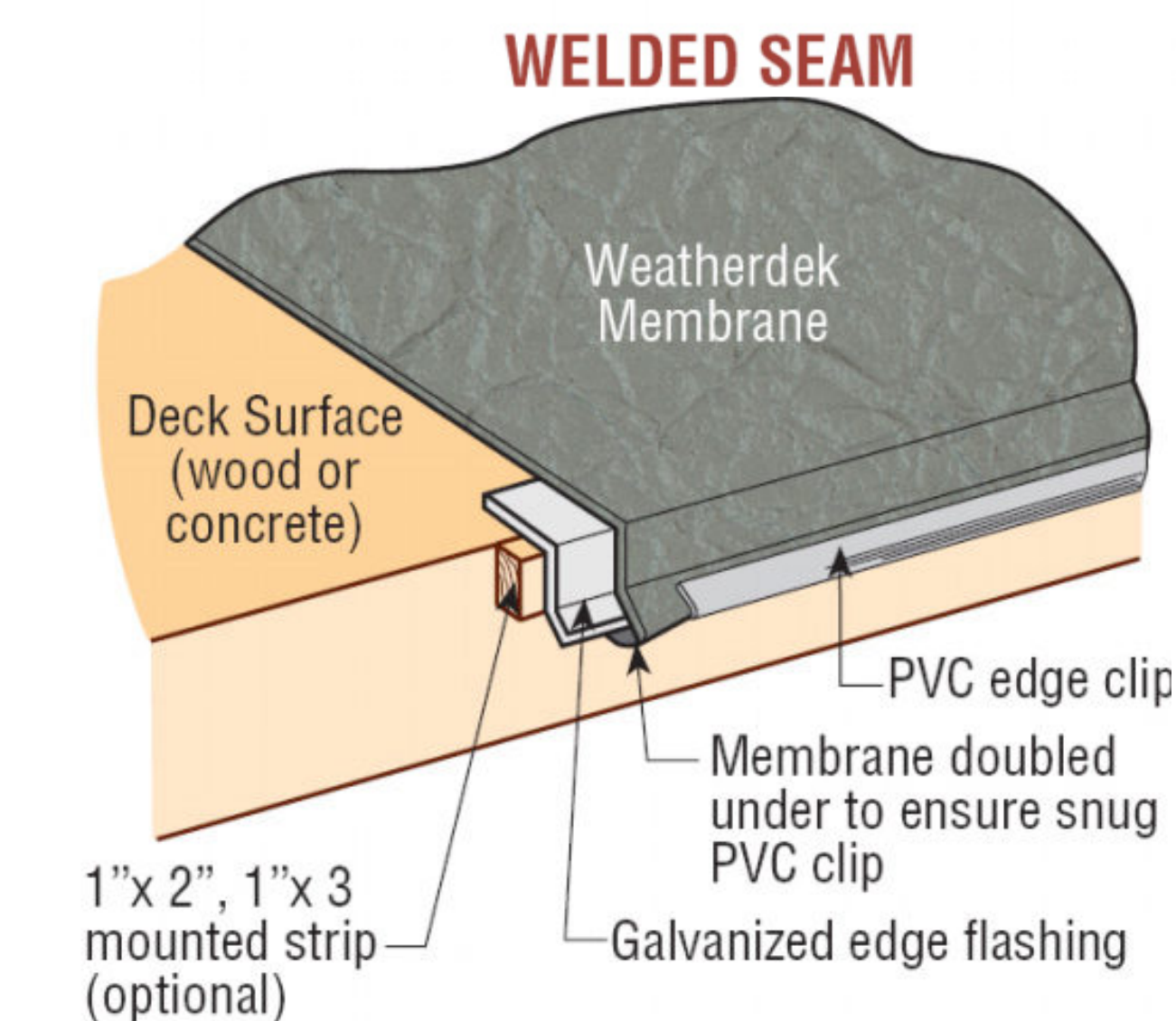
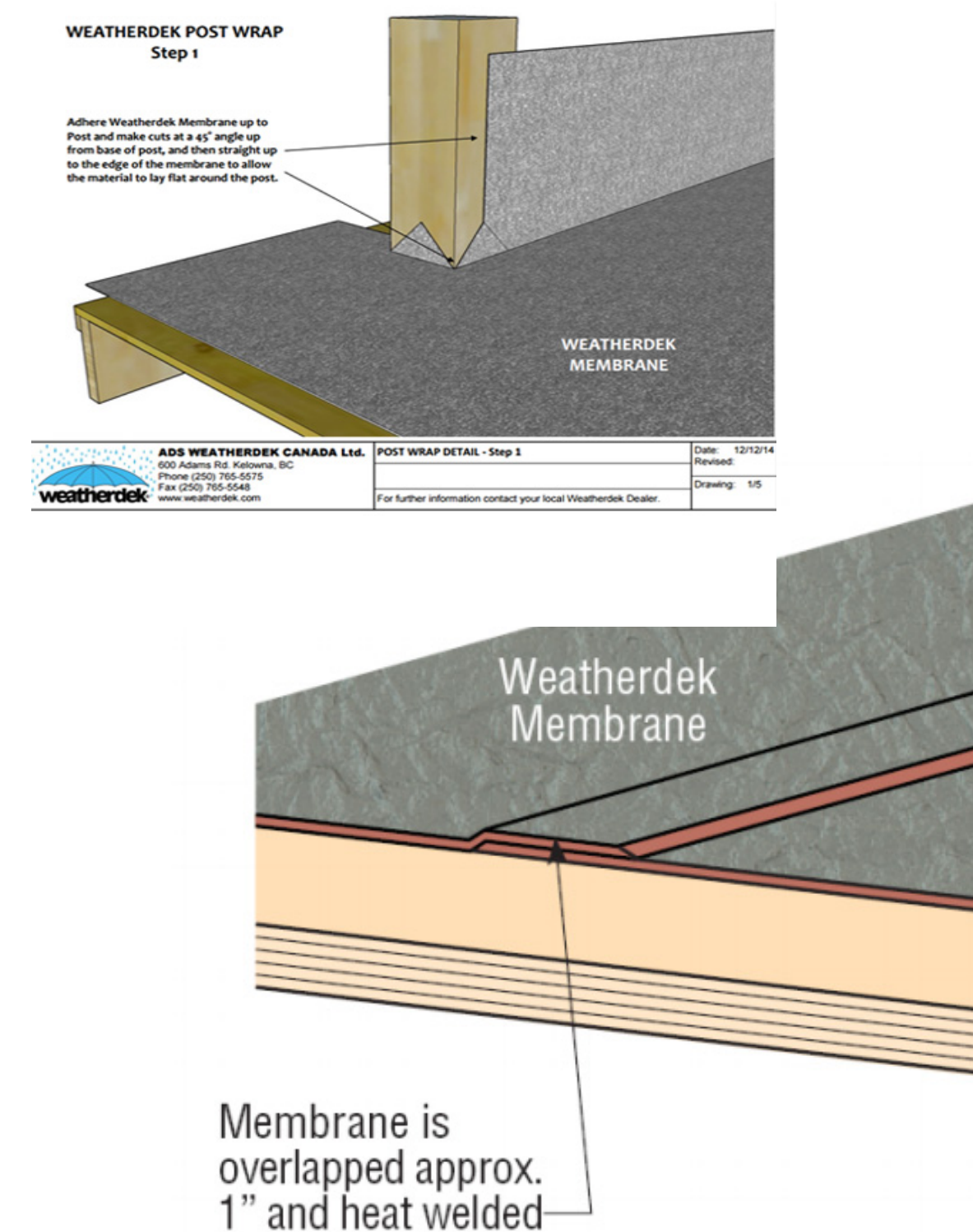


WINDOW NOTES:

1. ALL WINDOWS TO BE DOUBLE GLAZED. U.O.N.
2. CONTRACTOR SHALL VERIFY ALL FINAL MANUFACTURER'S WINDOW SIZES BEFORE ORDERING AND INSTALLING.
3. ALL HEADER HEIGHTS TO BE MEASURED FROM TOP OF PERSPECTIVE SUBFLOOR. U.O.N.
4. ALL WINDOWS AND DOORS MUST BE TEMPERED GLASS ON THE EXTERIOR PANE.

Sierra 48 in. Wall/Built-in Linear Electric Fireplace

Heat Output (BTU/hour) 4777
Assembled Width (in.) 48 in
Assembled Height (in.) 19.5 in
Assembled Depth (in.) 5 in
Certifications and Listings
CSA Listed, UL Listed
Voltage (volts) 120



DECK/WALL INTERSECTION

WEATHERDECK VINYL DECKING MEMBRANE INSTALLATION

REVISIONS

BY

PROJECT FOR YURI RABOVER
15724 APOLLO HEIGHTS CT,
SARATOGA, CA,

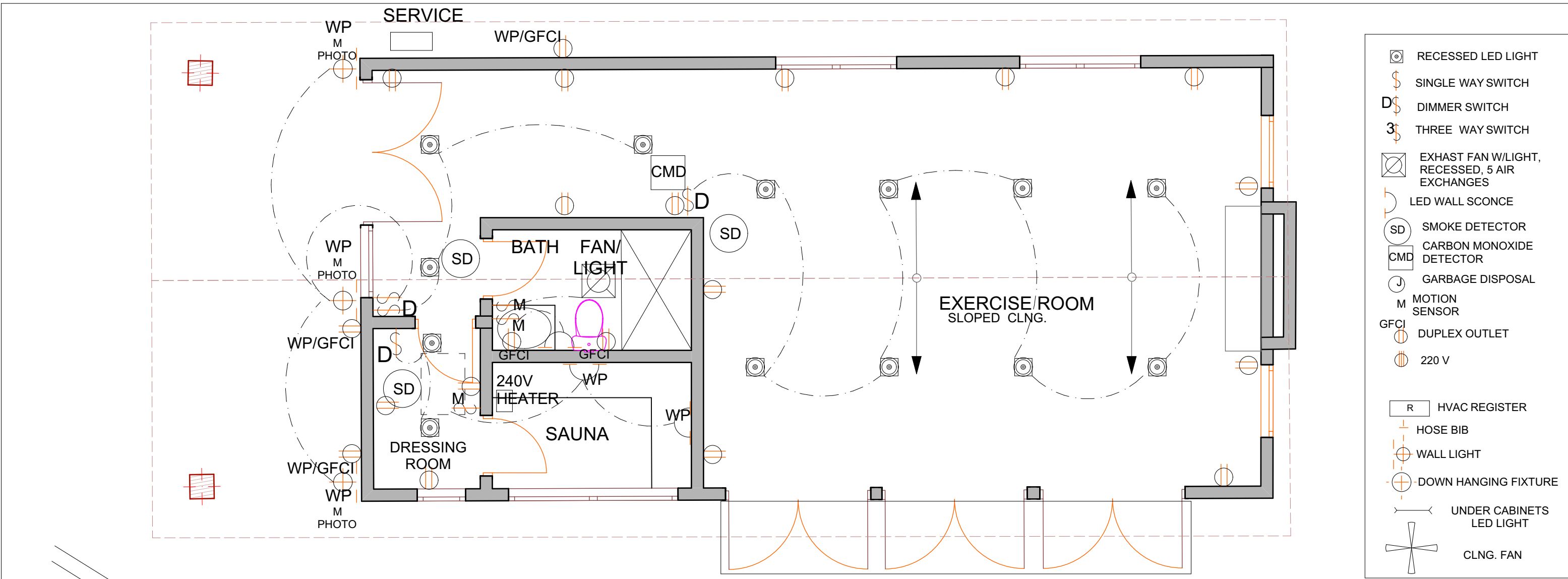

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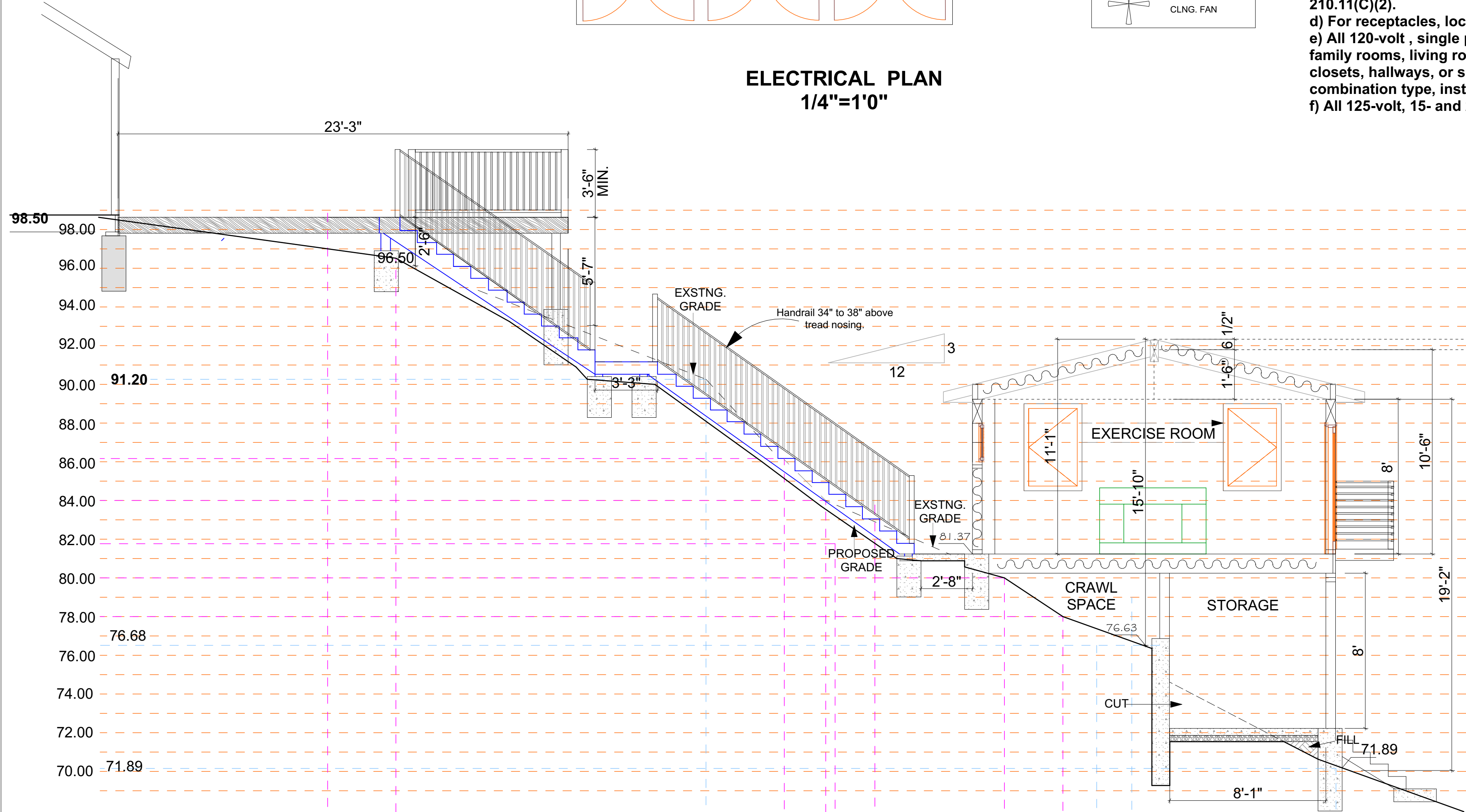
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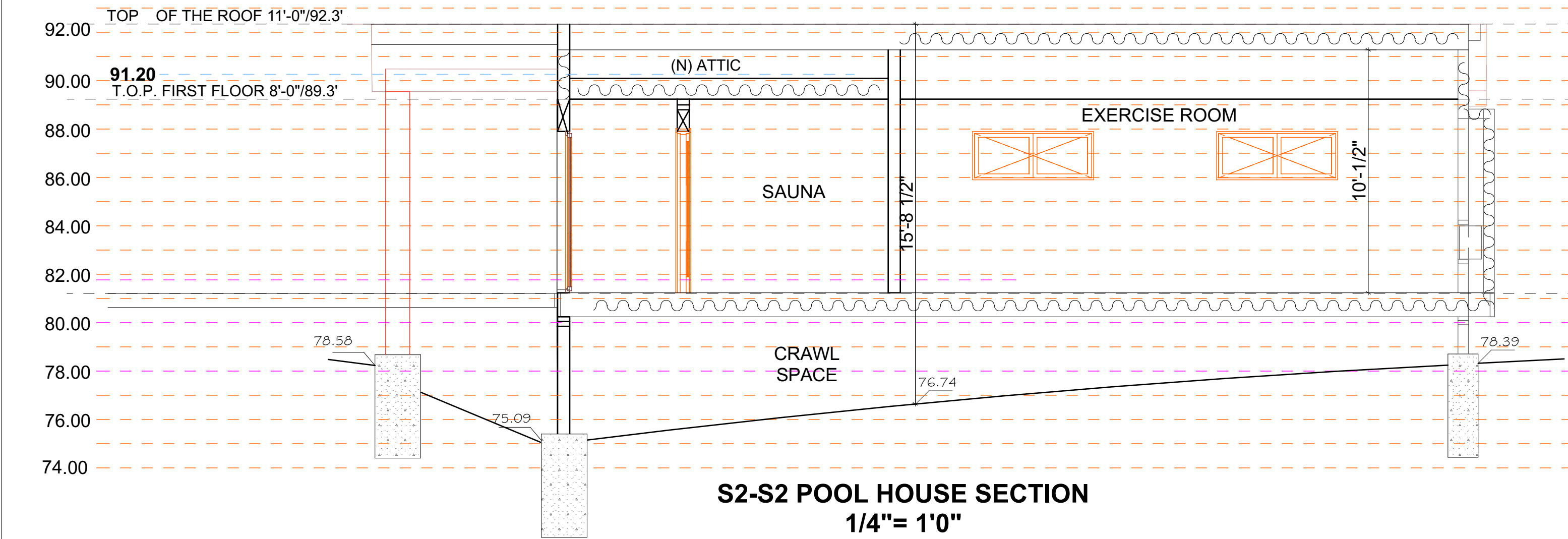
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ELECTRICAL PLAN
1/4"=1'0"



S1-S1 POOL HOUSE SECTION
1/4"= 1'0"



S2-S2 POOL HOUSE SECTION
1/4"= 1'0"

CARBON MONOXIDE DETECTORS

CO Alarm should be centrally located outside of each separate sleeping area in the immediate vicinity of the bedrooms. The Alarm should be located at least 6 inches (152mm) from all exterior walls and at least 3 feet (0.9 meters) from supply or return vents.

Carbon Monoxide Alarm shall be hard-wired with a battery backup. When more than one alarm is required to be installed within an individual dwelling unit, the carbon monoxide alarms shall be interconnected in such manner that the activation of the alarm will activate all of the alarms per CRC R 315.7.

NOTE 2:

- a) For the bathroom, receptacle outlets shall be supplied by dedicated 20 AMP branch circuit per CEC 210.11(C)3. This circuit cannot supply any other receptacles, lights, fans, etc (Exception - where the circuit supplies a single bathroom, outlets for other equipment within the same bathroom shall be allowed.)
- b) For the kitchen, a min. of two 20 AMP. dedicated circuits shall be provided for small appliances. CEC 210.52(C)2).
- c) For laundry room, Laundry receptacle outlet to be supplied by a dedicated 20 AMP branch circuit per CEC 210.11(C)2).
- d) For receptacles, located outdoors, shall be GFCI protected and weatherproof per CEC 210.8 and 406.9(B)
- e) All 120-volt, single phase, 15- and 20- ampere branch circuits supplying outlets installed in dwelling unit family rooms, living rooms, dining rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas shall be protected by a listed arc-fault circuit interrupter, combination type, installed to provide protection of the branch circuit. CEC 210.12
- f) All 125-volt, 15- and 20- ampere receptacle outlets shall be listed tamper- resistant receptacles per CEC 406.12.

LOCATION OF EXHAUST OUTLETS

FOR ALL ENVIRONMENTAL AIR EXHAUST:
3 FEET FROM OPERABLE OPENINGS INTO BUILDING
PER CMC 504.5

IN DWELLING UNITS, ALL 125- VOLT, SINGLE PHASE, 15- AND 20- AMP RECEPTACLES INSTALLED IN THE FOLLOWING LOCATION SHALL HAVE GFCI PROTECTION:

- a) BATHROOM
b) GARAGES
c) OUTDOOR
d) CRAWL SPACE

Light fixtures located in tub or shower enclosures are labeled "suitable for wet locations" or "suitable for damp locations". CEC 410.10 (A)

Review the location of switches, outlets, lights, etc. with the owner at the time of box rough-in prior to final wiring.

- Note 3: High efficacy luminaires to be separately switched from low-efficacy luminaires per CEC 150(k)2(A)
- Note 4: Fan and light combination fixture to be separately switched per CEC 150.0(k)2(B)
- KITCHEN
- Note 5: Kitchen exhaust hood shall be 100 cfm. min. A minimum of 50% of the total rated wattage of permanently installed lighting in the kitchen shall be high efficacy per CEC 150.0.k.3.
- Luminaries in the kitchen that are low efficacy, meeting CEC 150.0.k.3 Exception, controlled by vacancy sensors or dimmers
- BATHROOM
- Note 6: Provide at least one high efficacy fixture, all other lights to be controlled by vacancy sensors per CEC 150.0.k.5
- Note 7: Low- efficacy luminaire to be controlled by vacancy sensor or high efficacy.
- Note 8: Vacancy sensor instead of motion sensor type per CEC 150.0.k.5
- GARAGE, LAUNDRY ROOMS, AND UTILITY ROOMS
- Note 9: At the garage, laundry room, and utility rooms all light fixtures to be high- efficacy and controlled by vacancy sensor per CEC 150.0.k.7.
- OTHER THAN KITCHEN, BATHROOMS, GARAGES, LAUNDRY ROOMS, AND UTILITY ROOMS
- Note 10: At bedrooms, dining rooms, living rooms, and similar spaces, luminaires to be high efficacy or controlled by either dimmers or vacancy sensor per CEC 150.0.k.7
- RECESSED LUMINAIRES IN CEILING
- Note 11: Note on the plan: For recessed luminaires, luminaires shall be listed for zero clearance insulation contact (IC) by UL or other nationally recognized testing/ rating laboratory: CEC 150.k.8.
- OUTDOOR LIGHTING
- Note 12: ALL OUTDOOR LIGHTING TO BE HIGH EFFICACY WITH MANUAL ON/ OFF SWITCH AND ONE OF THE FOLLOWING WITH ACCORDANCE WITH CEC 150.0(K)3:
- i. PHOTOCONTROL AND MOTION SENSOR
ii. PHOTOCONTROL AND AUTOMATIC TIME SWITCH CONTROL
iii. ASTRONOMICAL TIME SWITCH CONTROL
iv. ENERGY MANAGEMENT CONTROL SYSTEMS.
- NOTE 13: COMPLETED CF2R-LTG-01-E FORM MUST BE PROVIDED TO THE CITY BUILDING INSPECTOR, PRIOR TO FINAL INSPECTION.
- NOTE 14: GFCI & AFCI PROVIDE GROUND -FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION PER CEC SECTION 210-8 FOR RECEPTACLE OUTLETS LOCATED AT BATHROOMS, OUTDOORS AND WITHIN 6' OF SINK.
- USE ARC- FAULT CIRCUIT (AFCI) DEVICE FOR ALL RECEPTACLE OUTLETS IN ALL FAMILY ROOMS, LIVING ROOMS, BEDROOMS, CLOSETS, HALLWAYS, KITCHENS, LAUNDRY AREAS AND SIMILAR ROOM/ AREAS PER CEC 210-12.
- AFCI PROTECTION REQUIRED FOR ALL NEW ELECTRICAL OUTLETS
I.E. LIGHTS, RECEPTACLE'S, SMOKE AND CO DETECTORS

Note:

Tamper resistant receptacles are required for all dwelling unit 125-volt, 15- and 20-amp. receptacles and shall be listed. CEC 406.11

Smoke detectors are required in each bedroom, and carbon monoxide/ smoke detectors are required adjacent to each bedroom and at least one on each level. CRC R314 & R315
All shower and tub/ shower individual control valves shall be pressure balancing or the thermostatic mixing valve type.

Receptacle outlets in the bathrooms shall be supplied by at least one 20-ampere branch circuit. Such circuits shall have no other outlets. Receptacle to be on the wall within 3' of sink basin and GFCI protected. CEC 210.52 (d)

All concealed light fixtures will be I.C. rated, wherever insulation is required. CEC 410.66

Termination of all environmental air ducts (bathroom fans) shall be a minimum of three feet from the property lines or any openings into the building. It must be 3 feet away from doors, windows, opening skylights or attic vents. CMC 504.6

Water closet shall have an average consumption of not more than 1.28 gallons of water per flush. CPC 402.3

Clear space in front of the water closet or bidet not to be less than 24 inches. CPC 408.6

NOTE 1:

WHERE NEW CONSTRUCTION OR ELECTRICAL WORK OCCURS, THE SMOKE ALARMS AND CARBON MONOXIDE ALARMS SHALL BE INTERCONNECTED AND HARDWIRED PER CRC R314.4, R314.5, R315.2.4 AND R315.2.5

WHEN MORE THAN ONE SMOKE ALARM IS REQUIRED TO BE INSTALLED WITHIN AN INDIVIDUAL DWELLING UNIT, THE SMOKE ALARMS SHALL BE INTERCONNECTED IN SUCH MANNER THAT THE ACTIVATION OF ONE ALARM WILL ACTIVATE ALL OF THE ALARMS PER CRC R314.4.

REVISIONS

BY

PROJECT FOR YURI RABOVER
15724 APOLLO HEIGHTS CT,
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PROJECT NO.

DATE

A9
OF

SHEET NUMBER



		APPLICANT TO COMPLETE		Installer or Designer	
		Plan Check Review Data		Verification	
ITEM #	CALGreen CODE SECTION	REQUIREMENT	REFERENCE SHEET	Note or Detail No.	Date Installer or Designer Signature
MATERIAL, CONSERVATION & RESOURCE EFFICIENCY: MANDATORY REQUIREMENTS					
9	4.406.1	Annular spaces around pipes, electric cables, conduits or other openings in plates at exterior walls are protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the County of Santa Clara.	CG-2	Note 9	
10	4.408.1	Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste. Submit either a Construction Waste management plan (CALGreen 4.408.2) or Utilize a waste management company (CALGreen 4.408.3).	CG-2	Note 10	
11	4.408.5	Documentation is provided to County of Santa Clara which demonstrates compliance with CALGreen sections 4.408.2 or 4.408.3.	CG-1	Construction Waste Management Forms Note 11	
12	4.410.1	An operation and maintenance manual is placed in the building at the time of final inspection.	CG-2	Note 12	
ENVIRONMENTAL QUALITY: MANDATORY REQUIREMENTS					
13	4.503.1	Any installed gas fireplace is a direct-vent sealed-combustion type. Any installed woodstove or pellet stove comply with US EPA Phase II emission limits where applicable.	CG-2	Note 13	
14	4.504.1	Duct openings and other related air distribution component openings are covered during construction until final startup of the HVAC equipment.	CG-2	Note 14	
15	4.504.2.1	Adhesives, sealants and caulks are compliant with VOC and other toxic compound limits.	CG-1 CG-2	Table 4.504.1 Table 4.504.2 Note 15	
16	4.504.2.2	Architectural paints and coatings are compliant with VOC limits.	CG-1 CG-2	Table 4.504.3 Note 16	
17	4.504.2.3	Aerosol paints and coatings are compliant with product weighted MIR limits for ROC and other toxic compounds.	CG-2	Note 17	
18	4.504.2.4	Documentation are provided to the County of Santa Clara to verify that compliant VOC limit finish materials have been used.	CG-2	Note 18	
19	4.504.3	Carpet and carpet systems meet the applicable testing and product requirements.	CG-1 CG-2	Table 4.504.1 Note 19	
20	4.504.4	80 percent of floor area receiving resilient flooring comply with applicable standards.	CG-2	Note 20	
21	4.504.5	Hardwood plywood, particleboard and medium density fiberboard composite wood meet formaldehyde limits.	CG-1 CG-2	Table 4.504.5 Note 21	

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard ²	0.13

Construction Waste Management (CWM) Plan

Fill out the form including diversion rate and facility names and addresses

All Subcontractors shall comply with the project's Construction Waste Management Plan. All Subcontractor foremen shall sign the CWM Plan Acknowledgment Sheet.

Subcontractors who fail to comply with the Waste Management Plan will be subject to backcharges or withholding of payment, as deemed appropriate. For instance, Subcontractors who place debris boxes that have been designated for a single material type will be subject to backcharge or withheld payment, as deemed appropriate.

1. The project's overall rate of waste diversion will be ____%.
2. This project shall generate the least amount of waste possible by planning and ordering carefully, following all proper storage and handling procedures to reduce broken and damaged materials and reusing materials whenever possible. The majority of the waste that is generated on this jobsite will be diverted from the landfill and recycled for other use.
3. Spreadsheet 1, enclosed, identifies the waste materials that will be generated on this project, the diversion strategy for each waste type and the anticipated diversion rate.
4. Waste prevention and recycling activities will be discussed at the beginning of weekly Subcontractor meetings. As each new subcontractor is on-site, the project coordinator will present them with a copy of the CWM Plan and provide a tour of the jobsite to identify materials to be salvaged and the procedures for handling jobsite debris. All Subcontractor foremen will acknowledge in writing that they have read and will abide by the CWM Plan. Subcontractor Acknowledgment Sheet enclosed. The CWM Plan will be attached to the jobsite waste management plan.
5. Salvage: Excess materials that cannot be used in the project, nor returned to the vendor, will be offered to site workers, the owner, or donated to charity if feasible.
6. Debris boxes: will provide a commingled drop box at the jobsite for most of the construction waste. These commingled drop boxes will be taken to the waste transfer station. The average diversion rate for commingled waste will be ____%. As site conditions permit, additional drop boxes will be used for particular phases of construction (e.g., concrete and wood waste) to ensure the highest waste diversion rate possible.
7. In the event that the waste diversion rate achievable via the strategy described in 6(a) above, is projected to be lower than what is required by the waste diversion rate goal, the waste diversion and/or waste stream reduction will be implemented. Source separated waste refers to jobsite waste that is not commingled but is instead allocated to a debris box designated for a single material type, such as clean wood or metal.

Construction Waste Management (CWM) Worksheet

Construction Waste Management (CWM) Acknowledgment

Note: This sample form may be used to assist in documenting compliance with the waste management plan.

Project Information

CALGREEN 2019 NOTES – MANDATORY REQUIREMENTS:

1. PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION. SEE CALGREEN 4.106.2 FOR FURTHER DETAILS.

2. CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. SWALES, WATER COLLECTION AND DISPOSAL SYSTEMS, FRENCH DRAINS, WATER RETENTION GARDENS, AND OTHER MEASURES CAN BE USED. EXCEPTION: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.

3. NEW CONSTRUCTION SHALL COMPLY WITH CALGREEN SECTION 4.106.4.1 TO FACILITATE FUTURE INSTALLATION AND USE OF EV CHARGERS. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, ARTICLE 625.

EXCEPTIONS:

- A. WHERE COUNTY OF SANTA CLARA HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE.
- B. ACCESSORY DWELLING UNITS (ADU) AND JUNIOR ACCESSORY DWELLING UNITS (JADU) WITHOUT ADDITIONAL PARKING FACILITIES.

4. FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE. THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

THE SERVICE PANEL OR SUB-PANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVER CURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

5. ALL NONCOMPLIANT PLUMBING FIXTURES SHALL BE REPLACED WITH WATER-CONSERVING PLUMBING FIXTURES. PLUMBING FIXTURE REPLACEMENT IS REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION, CERTIFICATE OF OCCUPANCY, OR FINAL PERMIT APPROVAL BY BUILDING AND INSPECTION DIVISION. SEE CIVIL CODE SECTION 1101.1, ET SEQ., FOR THE DEFINITION OF A NONCOMPLIANT PLUMBING FIXTURE, TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.

- A. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.
- B. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.
- C. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWER-HEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.
- D. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.
- E. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

6. PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE.

7. RESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWEL0), WHICHEVER IS MORE STRINGENT.

8. NEWLY CONSTRUCTED RESIDENTIAL DEVELOPMENTS, WHERE DISINFECTED TERTIARY RECYCLED WATER IS AVAILABLE FROM A MUNICIPAL SOURCE TO A CONSTRUCTION SITE, MAY BE REQUIRED TO HAVE RECYCLED WATER SUPPLY SYSTEMS INSTALLED, ALLOWING THE USE OF RECYCLED WATER FOR RESIDENTIAL LANDSCAPE IRRIGATION SYSTEMS. SEE CHAPTER 15 OF THE CALIFORNIA PLUMBING CODE.

9. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

10. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH CALGREEN SECTION 4.408.2 OR 4.408.3.

A. A CONSTRUCTION WASTE MANAGEMENT PLAN IS PROVIDED. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE COUNTY OF SANTA CLARA.

- 1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
- 2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).
- 3. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE TAKEN.
- 4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED.
- 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

B. A WASTE MANAGEMENT COMPANY CAN BE UTILIZED IF APPROVED BY THE COUNTY OF SANTA CLARA. SEE CALGREEN 4.408.3 FOR FURTHER .DETAILS

11. DOCUMENTATION SHALL BE PROVIDED TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATES COMPLIANCE WITH NOTE 10.

12. AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE COUNTY OF SANTA CLARA INCLUDES ALL OF THE REQUIRED INFORMATION, SHALL BE PLACED IN THE BUILDING. SEE CALGREEN 4.410.1 FOR DETAILS OF REQUIRED INFORMATION.

13. ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE SANTA CLARA COUNTY ORDINANCES AND BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGULATION 6, RULE 3.

14. AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

15. ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF CALGREEN TABLES 4.504.1 OR 4.504.2 AS REPRODUCED ON SHEET CG-1. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED BELOW.

AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

16. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS AS SHOWN IN TABLE 4.504.3 SHEET CG-1. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NON-FLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3, SHEET CG-1 SHALL APPLY.

17. AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(E)(1) AND (F)(1) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

18. VERIFICATION OF COMPLIANCE WITH NOTES 15, 16, AND 17 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

19. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:

- A. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM.
- B. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350.)
- C. NSF/ANSI 140 AT THE GOLD LEVEL.
- D. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE GOLD.

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PROGRAM. ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1, SHEET CG-1.

20. WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:

A. PRODUCTS COMPLIANT WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE.

B. PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN & SCHOOLS PROGRAM).

C. CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM.

D. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350).

21. HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN TABLE 4.504.5 SHEET CG-1.

22. VERIFICATION OF COMPLIANCE WITH NOTE 21 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

23. CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER BY CBC, CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY CRC CHAPTER 5, SHALL COMPLY WITH FOLLOWING REQUIREMENT:

A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:

- A. A 4-INCH-THICK BASE OF 1/2 INCH OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED.
- B. A SLAB DESIGN SPECIFIED BY THE LICENSED DESIGN PROFESSIONAL.

24. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19 PERCENT MOISTURE CONTENT. INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

25. EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING:

- A. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
- B. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
 - 1. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF ≤ 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
 - 2. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL.

26. HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS:

- A. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J—2016 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- B. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D—2016 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- C. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S—2014 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

27. HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS.

28. IF REQUIRED BY THE COUNTY OF SANTA CLARA, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE COUNTY OF SANTA CLARA FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.

29. DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE SHALL INCLUDE BUT IS NOT LIMITED TO, CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE, THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED IN THE APPLICATION CHECKLIST.

