

CITY OF LOS ANGELES

DEPARTMENT OF BUILDING AND SAFETY LOS ANGELES, CA 90012 RAYMOND S. CHAN, C.E., S.I GENERAL MANAGER FRANK BUSH EXECUTIVE OFFICER

GEOLOGY AND SOILS REPORT APPROVAL LETTER

LOG # 92028

SOILS/GEOLOGY FILE - 2 LAN-Exempt

DATE(S) OF PREPARED BY **DOCUMENT** 12/17/2015 Irvine Geotechnical

The Grading Division of the Department of Building and Safety has reviewed the referenced report that provides recommendations for a proposed pool, pool house and decks. According to the report, the site consists of a graded residential lot, which is mostly cut. Rear descending cut slopes are located south and west of the pad that are about 50 high at a gradient of approximately 1.5:1.

Soil Labworks, LLC and is accepting responsibility for use of the data in accordance to Code section

The earth materials at the subsurface exploration locations consist of up to 2 feet of fill underlain by Santa Susana Formation bedrock. Bedding structure at the site is reportedly dipping steeply to the southeast. The consultants recommend to support the proposed structure on drilled-pile foundations bearing on competent bedrock. It is the Department's understanding that the pool house will be

The site is located in a designated seismically induced landslide hazard zone as shown on the "Seismic Hazard Zones" map issued by the State of California. However, the proposed construction is currently

The referenced report is acceptable, provided the following conditions are complied with during site

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1341 N. Las Canoas Road

(Note: Numbers in parenthesis () refer to applicable sections of the 2014 City of LA Building Code. P/BC numbers refer the applicable Information Bulletin. Information Bulletins can be accessed on the internet at LADBS.ORG.)

The geologist and soils engineer shall review and approve the detailed plans prior to issuance of any permits. This approval shall be by signature on the plans that clearly indicates the geologist and soils engineer have reviewed the plans prepared by the design engineer and that the plans include the recommendations contained in their reports. (7006.1)

All recommendations of the report that are in addition to or more restrictive than the conditions contained herein shall be incorporated into the plans.

A copy of the subject and appropriate referenced reports and this approval letter shall be attached to the District Office and field set of plans. Submit one copy of the above reports to the Building Department Plan Checker prior to issuance of the permit. (7006.1)

A grading permit shall be obtained for all structural fill. (106.1.2)

All man-made fill shall be compacted to a minimum 90 percent of the maximum dry density of the fill material per the latest version of ASTM D 1557. Where cohesionless soil having less than 15 percent finer than 0.005 millimeters is used for fill, it shall be compacted to a minimum of 95 percent relative compaction based on maximum dry density (D1556). Placement of gravel in lieu of compacted fill is allowed only if complying with Section 91.7011.3 of the Code. (7011.3)

Existing uncertified fill shall not be used for support of footings, concrete slabs or new fill.

Drainage in conformance with the provisions of the Code shall be maintained during and subsequent to construction. (7013.12)

8. All loose foundation excavation material shall be removed prior to commencement of framing. Slopes disturbed by construction activities shall be restored. (7005.3)

The applicant is advised that the approval of this report does not waive the requirements for excavations contained in the State Construction Safety Orders enforced by the State Division of Industrial Safety. (3301.1)

Unsurcharged temporary excavations in bedrock with favorably oriented bedding may be cut vertical up to 5 feet. For excavations over 5 feet, the lower 5 feet may be cut vertically and the portion of the excavation above 5 feet shall be trimmed back at a gradient not exceeding 1:1 (horizontal to vertical), as recommended.

lowest exposed bedding plane, as recommended. 12. All foundations shall derive entire support from competent bedrock, as recommended and

approved by the geologist and soils engineer by inspection.

16030-30000-07263 \ 1341 N LAS CANOAS ROAD

11. Temporary excavation that expose unfavorably oriented bedrock shall be trimmed along the

13. Foundations adjacent to a descending slope steeper than 3:1 (H:V) in gradient shall be a minimum distance of one-third the vertical height of the slope but need not exceed 40 feet 1341 N. Las Canoas Road

measured horizontally from the footing bottom to the face of the slope (1808.7.2); for pools the foundation setback shall be one-sixth the slope height to a maximum of 20 feet (1808.7.3). Where the slope is steeper than 1:1, the required setback shall be measured from an imaginary plane 45 degrees to the horizontal, projected upward from the toe of the slope. Pile caisson are required by Code Sections 1809.13. Exceptions and modification to this requirement are provided in Information Bulletin P/BC 2014-030.

15. Pile or caisson shafts shall be designed for a lateral load of 1000 pounds per linear foot of shaft exposed to fill, soil and weathered bedrock. (P/BC 2014-050)

16. The design passive pressure shall be neglected for a portion of the pile with a set back distance (horizontal set back) less than five feet from fill, soil or weathered bedrock contact plane with

17. When water over 3 inches in depth is present in drilled pile holes, a concrete mix with a strength of 1000 p.s.i. over the design p.s.i. shall be tremied from the bottom up; an admixture that reduces the problem of segregation of paste/aggregates and dilution of paste shall be included.

18. Existing uncertified fill shall not be used for lateral support of deep foundation. (1810.2.1) 19. Slab on uncertified fill shall be designed as a structural slab. (7011.3)

20. The seismic design shall be based on a Site Class C as recommended. All other seismic design parameters shall be reviewed by LADBS building plan check.

21. The proposed swimming pool shall be designed for a freestanding condition. 1808.7.3)

22. Pool deck drainage shall be collected and conducted to an approved location via a non-erosive device; water shall not be dispersed on to descending slopes without specific approval from the Grading Division and the consulting geologist and soils engineer. (7013.10) 23. All deck drainage shall be collected and conducted to an approved location in a non-erosive

Grading Division and the consulting geologist and soils engineer. (7013.10) 24. An on-site storm water infiltration system at the subject site shall not be implemented, as

25. All concentrated drainage shall be conducted in an approved device and disposed of in a manner

device; water shall not be dispersed on to descending slopes without specific approval from the

approved by the LADBS. (7013.10) 26. Any recommendations prepared by the geologist and/or the soils engineer for correction of geological hazards found during grading shall be submitted to the Grading Division of the

27. The geologist and soils engineer shall inspect all excavations to determine that conditions anticipated in the report have been encountered and to provide recommendations for the correction of hazards found during grading. (7008 & 1705.6)

28. All friction pile or caisson drilling and installation shall be performed under the inspection and

1341 N. Las Canoas Road

approval of the geologist and soils engineer. The geologist shall indicate the distance that friction piles or caissons penetrate into competent bedrock in a written field memorandum. (1803.5.5, 1704.9)

29. Prior to the pouring of concrete, a representative of the consulting soils engineer shall inspect and approve the footing excavations. He/She shall post a notice on the job site for the LADBS Building Inspector and the Contractor stating that the work so inspected meets the conditions of the report, but that no concrete shall be poured until the City Building Inspector has also inspected and approved the footing excavations. A written certification to this effect shall be filed with the Grading Division of the Department upon completion of the work. (108.9 &

30. Prior to excavation, an initial inspection shall be called with LADBS Inspector at which time sequence of construction, pile installation, protection fences and dust and traffic control will be scheduled. (108.9.1)

31. Pile installation shall be performed under the inspection and approval of the soils engineer and deputy grading inspector. (1705.6)

32. Prior to the placing of compacted fill, a representative of the soils engineer shall inspect and approve the bottom excavations. He/She shall post a notice on the job site for the City Grading Inspector and the Contractor stating that the soil inspected meets the conditions of the report, but that no fill shall be placed until the LADBS Grading Inspector has also inspected and approved the bottom excavations. A written certification to this effect shall be included in the final compaction report filed with the Grading Division of the Department. All fill shall be placed under the inspection and approval of the soils engineer. A compaction report together with the approved soil report and Department approval letter shall be submitted to the Grading Division of the Department upon completion of the compaction. In addition, an Engineer's Certificate of Compliance with the legal description as indicated in the grading permit and the permit number shall be included. (7011.3)

DANIEL C. SCHNEIDEREI' Structural Engineering Associate I Engineering Geologist II

DCS/DRE:dcs/dre Log No. 92028 213-482-0480

FORM

GRN 14

n GRN 2 shall be completed at

cc: Kurt Krueger, Applicant Irvine Geotechnical, Project Consultant WL District Office

 Remodels which involve the removal of 50% or more of existing exterior walls Addition, demolition, removal or conversion of any whole residential units (unless required by LADBS) Projects which involve significant grading or boring in a Special Grading or Landslide area Any change of use (to a more or less intensive use) OWNER/APPLICANT TO COMPLETE THE FOLLOWING (type, print, or fill out on-line) PROJECT ADDRESS: 1341 N Las Canoas Road, Los Angeles, CA 90272 LEGAL DESCRIPTION: LOT 30 BLOCK NA Arb 2 TRACT TR 19890 APN: 4420012032 ZONE: RE9-1 COMMUNITY PLAN: Brentwood - Pacific Palisades PROPOSED SCOPE OF WORK: NEW REAR & SIDE YARD DECKS with Pool/spa, NEW ATTACHED OUTDOOR COVERED AREA, REPLACE EXISTING DRIVEWAY, REPLACE 3 SLIDING DOORS, REPLACE EXISTING ATTACHED TRELLIS RELATED PLAN CHECK NUMBER(s): Note: If there is related work to be pulled under a separate permit, please include in the above project description. The reason for this is so Planning Staff can evaluate the project as a whole and to avoid having to apply for another CEX for any subsequent permits related to the original scope of work. Applicant Name: 11150 W Olympic Blvd STE 700, Los Angeles, CA 90064 E-mail Address: jungar@crestrealestate.com Signature:

CP-1608.3 CEX (revised 8/5/2015)

COASTAL EXEMPTION (CEX)

California Coastal Commission

South Coastal District

(562) 590-5071

200 Oceangate, 10th Floor

201 North Figueroa Street

Los Angeles, CA 90012

Long Beach, CA 90802-4302

Los Angeles Department of City Planning

SUBJECT: COASTAL EXEMPTION—SINGLE JURISDICTION AREA ONLY

Under no circumstances shall a Coastal Examption be issued for the following scopes of work:

Development Services Center (DSC)

CASE NO .:

DIR 2016-3018-CEX

COASTAL EXEMPTION

SOILS APPROVAL REPORT

Department of Building DEPARTMENT OF BUILDING AND SAFETY and Safety

Grading Pre-Inspection Report

Page 1 of 2

DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING

GARY LEE MOORE, PE, ENV SP

1149 S. BROADWAY, SUITE 700

http://eng.lacity.org

Permit Application: 16030-30000-07263

Inspector/Telephone: JEFFREY DURAN, (310) 914-3935

Property Posted: N/A Posting Date: N/A Posting Fees Paid? No ARB: 2 County Ref No: M B 627-46/50

Natural Soil Classification 1804.2: per soils/geo Cut: 90 degrees Height: 2ft in Slide Area: No PSDS Sized Per Code: No

Roof Gutters: Yes Recommended Termination of Drainage approved location Maximum Rough Grade Allowed: %

GRADING APPROVAL TO ISSUE PERMIT(S) OK TO ISSUE. SEE BELOW FOR COMMENTS X DO NOT ISSUE UNTIL BELOW REQUIREMENTS HAVE BEEN SATISFIED. OSHA permit required for vertical cuts 5 feet or over. 4. All footings shall be founded in undisturbed natural soil per Code. Design for expansive soil or submit a soils report to the grading division per information bulletin 6. In the event excavations reveal unfavorable conditions, the services of a soils engineer and/or geologist may be required. 7 Geological and Soils report(s) are required. Submit three copies (1 original and 2 copies), with Incorporate all recommendations of the approved Geological and Soils report(s) and Department etters dated may be on file into the plans. Geologist and Soils Engineer to sign plans. Site is subject to mudflow. Comply with provisions of Section 91.7014.3. Geological and soils report

6 minimum. Drainage to be shown on the plans.

X 1. A grading permit is required for excavation and backfill

A retaining wall permit is required.

Footings shall be set back from the descending slope surface exceeding 3 horizontal to 1 vertical as Swimming pools and spas shall be set back from descending and ascending slopes as per Section Department approval is required for construction of deck/pool/trellis. on or over slopes steeper than 2 orizontal to 1 vertical. Provide complete details of engineered temporary shoring or slot cutting procedures on plans. Call or inspection before excavation begins. All concentrated drainage, including roof water, shall be conducted, via gravity, to the street or an oved location at a 2% minimum. Drainage to be shown on the plans. X 16. A Registered Deputy Inspector is required.

> All fill or backfill shall be compacted by mechanical means to a minimum 90% relative compaction determined by ASTM method D-1557. Subdrains shall be provided where required by Code. Specify on the plans: "The soils engineer is to approve the key or bottom and leave a certificate on e site for the grading inspector. The grading inspector is to be notified before any grading begins and, r bottom inspection, before fill is placed. Fill may not be placed without approval of the grading Existing non-conforming slopes shall be cut back at 2:1 (26 degrees) or retained. All concentrated rainage, including roof water, shall be conducted, via gravity, to the street or an approved location at a

. Buildings shall be located clear of the toe of all slopes which exceed a gradient of 3 horizontal to 1

20. All cut or fill slopes shall be no steeper the 2:1 (26 degrees). Stake and flag the property lines in accordance with a licensed survey map. Approval required by the Department for Approval required by the Department of Public Works, Urban Forestry Division, for native tree rotected ORD, 177,040. Phone # (213) 847-3077 This is a preliminary pre-inspection only - base on limited information. When complete plans (and

will be required. * Additional requirements:

eering report. For questions call (213) 482-0480.

Page 2 of 2

truction of new occupied buildings or major additions to buildings on sites located in any of the Seismic lazard Zones (liquefaction, Landslide or Alquist-Priolo Fault Zone) will require a geology and/or soil

http://10.8.35.232/pre_inspection/viewonly/view_gradingchecklist.cfm?permit_id1=16030... 11/1/2016

ossibly calculations and/or required reports) are submitted for a permit, a new pre-inspection and fee

13. All new gas fireplaces must be direct-vent, sealed combustion type. Wood burning fireplaces are prohibited per AQMD Rule 445 Revised 07-27-2016

FORM GRN 14

ELA BDBS

(4.503.1, AQMD Rule 445)

ANSI/ACCA Manual J-2004, ANSI/ACCA 29-D-2009 or ASHRAE handbooks and have their equipment selected in accordance with ANSI/ACCA Page 1 of 1

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(blowdown); or B. A minimum of 50% of the makeup water supply to the cooling towers shall come from non-potable water sources, including treated backwash.

comply with all of the following: A. Shall have a minimum of 6 cycles of concentration (blowdown); and B. 100% of the makeup water supply to the cooling towers shall come from non-potable water sources,

11. Where groundwater is being extracted and discharged. develop and construct a system for onsite reuse of the groundwater. Alternatively, the groundwater may be discharged to the sewer.

cumulative landscape area shall have separate meters or submeters for outdoor water use. Additions and alterations on a site with 500 square feet or more of cumulative landscape area and where the entire

5. In other than single family dwellings, locks shall be installed on all publicly accessible exterior faucets and hose

6. Provide a cover having a manual or power-operated reel system in any permanently installed outdoor in-ground swimming pool or spa in one- and two-family dwellings For irregular-shaped pools where it is infeasible to cove 100% of the pool due to its irregular shape, a minimum of 80% of the pool shall be covered.

7. Except as provided in this section, for sites with over 500 closets, urinals, floor drains, and process cooling and

10. In new buildings over 25 stories, the cooling towers shall including treated backwash. (4.305.3.2)

12. Provide a hot water system complying with one of the A. The hot water system shall not allow more than 0.6 gallons of water to be delivered to any fixture before

B. Where a hot water recirculation or electric resistance

heat trace wire system is installed, the branch from the

hot water arrives.

recirculating loop or electric resistance heat trace wire to the fixture shall contain a maximum of 0.6 gallons Residential units having individual water heaters shall have a compact hot water system that meets all of the a. The hot water supply piping from the water heater o the fixtures shall take the most direct path. b. The total developed length of pipe from the water

heater to farthest fixture shall not exceed the distances specified in Table 3.6.5 of the 2013 California Energy Code Residential Appendix. the 2013 California Energy Code Residential

Water Efficient Landscape Ordinance (MWELO) is required for new landscape areas of 500 soft or more. recycled water, graywater, or water treated for irrigation LA F DBS

MANDATORY REQUIREMENTS CHECKLIST ADDITIONS AND ALTERATIONS TO RESIDENTIAL BUILDINGS (COMPLETE AND INCORPORATE THIS FORM INTO THE PLANS)

2014 Los Angeles Green Building Code

GRN 9

GRN 14 #13

GRN 14 #14

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A0.4 #11

GRN 14 #22

GRN 14 #21

GRN 14 #23

GRN 14 #25 & 26

Permit # _____ COMMENTS REFERENCE ITEM CODE REQUIREMENT # SECTION (Sheet #) e.g. note #, detail # or N/A J or reason for N/A PLANNING AND DESIGN Storm water drainage and retention during A0.4 #3 4.106.2 **GRADING PLAN** Grading and paving Cool roof for reduction of heat island effect A0.5/A0.6 A0.5 #4 & A0.6 #2 WATER EFFICIENCY & CONSERVATION Water conserving plumbing fixtures and GRN 14 #5 4 4.303.1 A0.4 #11 Multiple showerheads serving one shower GRN 14 #6 5 4.303.1.3.2 6 4.303.4 A0.4 #12 GRN 18R #2 Water use reduction Outdoor potable water use in landscape A1.1 **KEYNOTE #7** 7 | 4.304.1 4.304.2 **KEYNOTE #7** Irrigation controllers 9 4.304.3 NO NEW BLDG OVER 500SQFT Metering outdoor water use NO EXTERIOR FAUCE 10 | 4.304.4 Exterior faucets A1.1/A0.4 #12 KEYNOTE #4/GRN 18R #6 Swimming pool covers 11 | 4.304.5 A0.4 #12 GRN 18R #7 4.305.1 Graywater ready A0.4 #12 GRN 18R #8 4.305.2 Recycled water supply to fixtures A0.4 #12 GRN 18R #9 Cooling towers (buildings ≤ 25 stories) Cooling towers (buildings > 25 stories) MATERIAL CONSERVATION & RESOURCE EFFICIENCY GRN 14 #9 A0.4 #11 Rodent proofing 6 4.406.1 A7.2 #13-20 Flashing details A0.4 #11 GRN 14 #10 8 | 4.407.4 Material protection 9 | 4.408.1 Construction waste reduction of at least 50% A0.4 #11 A0.4 #11 GRN 14 #12 20 | 4.410.1 Operation and maintenance manual ENVIRONMENTAL QUALITY

Capillary break

Bathroom exhaust fans

Moisture content of building materials

Heating and air-conditioning system design

22 4.504.1

4.504.6

4.505.3

36 | 4.507.2

4.505.2.1

Page 1 of 2 Revised 06-06-2016

Covering of duct openings and protection of

mechanical equipment during construction

Fireplaces and woodstoves

ELA DBS

DEPARTMENT OF BUILDING AND SAFETY 2014 Los Angeles Green Building Code REFERENCE COMMENTS ITEM CODE REQUIREMENT SECTION Sheet # e.g. note #, detail # or N/A or reason for N/A Finish material pollutant contro 4.504.2.1 Adhesives, sealants, caulks A0.4 #11 GRN 14 #15 4.504.2.2 Paints and coatings 4.504.2.3 Aerosol paints and coatings A0.4 #11 GRN 14 #16 4.504.2.4 Verification A0.4 #11 GRN 14 #1 28 | 4.504.3 Carpet systems 9 4.504.3.1 A0.4 #11 GRN 14 #18 Carpet cushion GRN 14 #19 Resilient flooring systems 4.504.5 Composite wood products GRN 14 #20

(2014 Los Angeles Green Building Code)

Storm Water Pollution Control Requirements for Construction Activities Minimum Water Quality Protection Requirements for All Construction Projects

The following notes shall be incorporated in the approved set of construction/grading plans and represents the minimum standards of good housekeeping which must be implemented on all constructi projects.

Construction means constructing, clearing, grading or excavation that result in soil disturbance Construction includes structure teardown (demolition). It does not include routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of facility; emergency construction activities required to immediately protect public health and safety; interior remodeling with no outside exposure of construction material or construction waste to storm water; mechanical permit work; or sign permit work. (Order No. 01-182, NPDES Permit No. CAS004001 – Part 5: Definitions)

1. Eroded sediments and pollutants shall be retained on site and shall not be transported from the site via sheet flow, swales, area drains, natural drainage or wind. 2. Stockpiles of earth and other construction-related materials shall be covered and/or protected from being

transported from the site by wind or water. 3. Fuels, oils, solvents and other toxic materials must be stored in accordance with their listing and shall not contaminate the soil nor the surface waters. All approved toxic storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of properly and shall

not be washed into the drainage system. 4. Non-storm water runoff from equipment and vehicle washing and any other activity shall be contained on the project site.

6. Trash and construction –related solid wastes must be deposited into a covered receptacle to prevent contamination of storm water and dispersal by wind. 7. Sediments and other materials shall not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the

street/public ways. Accidental depositions must be swept up immediately and may not be washed down by rain or by any other means. 8. Retention basins of sufficient size shall be provided to retain storm water runoff on-site and shall be

properly located to collect all tributary site runoff. 9. Where retention of storm water runoff on-site is not feasible due to site constraints, runoff may be

conveyed to the street and the storm drain system provided that an approved filtering system is installed and maintained on-site during the construction duration.

Revised 01-01-2014 Page 1 of 1

FORM GRN 1 LA DBS VOC AND FORMALDEHYDE LIMITS

2014 Los Angeles Green Building Code

(Incorporate this form into the plans)

The tables below are taken from the 2014 Los Angeles Green Building Code Tables 4.504.1, 4.504.2, 4.504.3, 4.504.5, 5.504.4.1, 5.504.4.2, 5.504.4.3, 5.504.4.5 SEALANT VOC LIMIT VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS² ess Water and Less Exempt Compounds in Grams per Lite Grams of VOC per Liter of Coating. **CURRENT VOC LIMIT** SEALANTS Less Water and Less Exempt Compounds COATING CATEGORY^{2,3} CURRENT LIMIT Marine deck Nonmembrane roo Single-ply roof membrane Specialty Coatings SEALANT PRIMER Basement specialty coating tuminous roof coatings uminous roof primers odified bituminous 50 Concrete curing compound Marine deck ncrete/masonry sealers Note: For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management District Rule 1168. y fog coatings aux finishing coatings ire resistive coatings Less Water and Less Exempt Compounds in Grams per Liter ARCHITECTURAL APPLICATIONS ormirelease compounds oor carpet adhesive Graphic arts coatings (sign pain igh temperature coatings Carpet pad adhesives Industrial maintenance coatings tdoor carpet adhesive ów solids coatings od flooring adhesive ubber floor adhesives Magnesite cement coatings etállic pigmented coatings eramic tile adhesives and asphalt tile adhesives Wulticolor coatings rywall and panel adhesives nurpose construction adhesives tructural glazing adhesives gle-ply roof membrane adhesiv SPECIALTY APPLICATIONS Specialty primers, sealers and undercoat Plastic cement welding Adhesive primer for plastic ontact adhesive pecial purpose contact adhesive

Structural wood member adhesive

SUBSTRATE SPECIFIC APPLICATIONS

rous material (except wood) berglass out

If an adhesive is used to bond dissimilar substrates together, the adhesive with the highest VOC FORMALDEHYDE LIMITS laximum Formaldehyde Emissions in Parts per Million. ardwood plywood veneer core lardwood plywood composite core Medium density fiberboard Thin medium density fiberboard²
this table are derived from those specified by the California introl Measure for Composite Wood as tested in accordance with a information, see California Code of Regulations, Title 17, Section

Page 1 of 1

READY TO ISSUE BY MARJAN SHENA MAR 0 8 2017

SHEET

DETERMINATION OF DEDICATION REQUIREMENTS

The subject parcel with frontage on Las Canoas Road with legal description of Lot 30 of

Tract TR 19890 is located on a sub-standard hillside limited street. Las Canoas Road

The width of the continuous paved roadway from the subject property on Las Canoas

Road to the boundary of the Hillside Ordinance Area is greater than or equal to 20 feet

The agent has requested that the two (2) foot dedication along Las Canoas Road be

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has a right-of-way width of 32 feet and a roadway width of 26 feet.

waived based on the following reasons:

1) The current street meets the minimum width of 20-feet for fire vehicle access and two-way passenger vehicles.

Per the Hillside Ordinance (LAMC Sec. 12.21.A.17), the Bureau of Engineering must determine the Street Classification, required dedication and any required improvements prior to issuance of a building permit. Per the Hillside Ordinance, the City Engineer shall obtain dedication for public right-of-way for one-half of the width of the street(s) for

the full frontage of the lot to Standard Hillside Limited Street dimensions or to a lesser

2) The existing roadway is improved with concrete curb and gutter.

Determinations

width as determined by the City Engineer.

1) The two (2) foot dedication along Las Canoas Road to complete the half rightof-way width of 18 feet will not be required for approval of the Building Permit

2) The roadway is not expected to be widened to meet mobility needs in the hillside area. The additional two (2) foot dedication will not serve a useful purpose and thereby will not be required at this time. If you have any questions regarding this information you may contact Luz Rabelo

via telephone at (310) 477-3740 or via email at luz.rabelo@lacity.org.

West L.A. District Engineer

square feet of landscape area, alternate waste piping shall be installed to permit discharge from the clothes washer, bathtub, showers, and bathroom/restrooms wash basins to be used for a future graywater irrigation system. (4.305.1) 8. Except as provided in this section, where City-recycled water is available within 200 feet of the property line, water heating in the building shall be supplied from recycled water and shall be installed in accordance with the Los

Angeles Plumbing Code.

FORM GRN 18R

Revised 6-6-2016

to the California Department of Water Resources' Model The following methods to reduce potable water use in landscape areas include, but are not limited to, use of captured rainwater. purposes and conveyed by a water district or public entity. Page 1 of 1

Revised 06-06-2016

FORM GRN 9

FORM GRN 11

Tub and tile refinish coatings

Vood preservatives

(D) (J

Page 1 of 2

FORM STORM WATER POLLUTION CONTROL

5. Excess or waste concrete may not be washed into the public way or any drainage system. Provisions shall be made to retain concrete waste on-site until it can be appropriately disposed of or recycled.

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FORM Ш **GRN 11** Ш α

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Ш (1)

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Department for approval prior to utilization in the field. (7008.3)

LA (F) DBS

GREEN BUILDING CODE PLAN CHECK NOTES RESIDENTIAL BUILDINGS I. For each new dwelling and townhouse, provide a listed raceway that can ecommodate a dedicated 208/240 volt branch circuit. The raceway shall not be with tape, plastic, or sheet metal until the final startup of the heating, cooling less than trade size 1 (nominal 1-inch inside diameter), shall originate at the and ventilating equipment. 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. The panel or subpanel shall provide capacity to install a 40-ampere minimum with the Volatile Organic Compound (VOC) limits listed in Tables 4.504 ledicated branch circuit and space(s) reserved to permit installation of a branch 4.504.3. circuit overcurrent protective device. The service panel or subpanel circuit verified prior to final inspection approval. The manufacturer's specifications showing VOC content for all applicable products shall be readily available a the job site and be provided to the field inspector for verification. (4.504.2.4)

2014 Los Angeles Green Building Code

product requirements of one of the following:

Certified under UL GREENGUARD Gold

NSF/ANSI 140 at the Gold level

Carpet and Rug Institute's Green Label Plus Program

California Department of Public Health's Specification 01350

requirements of the Carpet and Rug Institute Green Label program. (4.504.3.1)

a. VOC emission limits defined in the CHPS High Performance Products

Certification under the Resilient Floor Covering Institute (RFCI)

composite wood products used in the building shall meet the formaldehyde

completed prior to final inspection approval. The manufacturer's specification

showing formaldehyde content for all applicable wood products shall be readil

egularly occupied areas of the building with a MERV 13 filter for outside and

maintenance with filters of the same value shall be included in the operation

Scientific Certifications Systems Indoor Advantage™ Gold

future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE". (4.106.4.1) 2. For common parking area serving R-occupancies, the electrical system shall 17. All new carpet installed in the building interior shall meet the testing and have sufficient capacity to simultaneously charge all designated EV spaces at the full rated amperage of the Electric Vehicle Supply Equipment (EVSE). Design shall be based upon a 40-ampere minimum branch circuit. The raceway hall not be less than trade size 1 (nominal 1-inch inside diameter), shall originate at the main service or subpanel and shall terminate into a listed binet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways and related components that are planned to be nstalled underground, enclosed, inaccessible or in concealed areas and space shall be installed at the time of original construction. The service panel or 18. All new carpet cushion installed in the building interior shall meet the

reflectance value of at least 0.30 as determined per ASTM E1918 or ASTM

7. Installed automatic irrigation system controllers shall be weather- or soil-base

subpanel circuit directory shall identify the overcurrent protective device pace(s) reserved for future EV charging purposes as "EV CAPABLE" in (4.106.4.2) 19. 80% of the total area receiving resilient flooring shall comply with one or more ccordance with the Los Angeles Electrical Code. 3. Roofs with slopes < 2:12 shall have an SRI value of at least 75 or both a 3-year solar reflectance of at least 0.63 and a thermal emittance of at least 0.75. Roofs ith slopes > 2:12 shall have an SRI value of at least 16 or both a 3-year solar reflectance of at least 0.20 and a thermal emittance of at least 0.75. (4.106.5) d. Meet the California Department of Public Health's Specification 01350 4. The required hardscape used to reduce heat island effects shall have a solar

20. New hardwood plywood, particle board, and medium density fiberboard 5. The flow rates for all plumbing fixtures shall comply with the maximum flow rates in Section 4.303.1. limits listed in Table 4.504.5. 6. When a shower is served by more than one showerhead, the combined flow 21. The Formaldehyde Emissions Verification Checklist, Form GRN 3, shall be rate of all the showerheads controlled by a single valve shall not exceed 2.0 gallons per minute at 80psi, or the shower shall be designed to only allow onshowerhead to be in operation at a time. available at the job site and be provided to the field inspector for verification.

(4.304.2) 22. Mechanically ventilated buildings within 1,000 feet of a freeway shall provide 8. For projects that include landscape work, the Landscape Certification, Form return air. Filters shall be installed prior to occupancy and recommendations GRN 12, shall be completed prior to final inspection approval (State Assembly Bill No. 1881) and maintenance manual. 9. Annular spaces around pipes, electric cables, conduits, or other openings in the 23. A 4-inch thick base of ½ inch or larger clean aggregate shall be provided for building's envelope at exterior walls shall be protected against the passage of proposed slab on grade construction. A vapor barrier shall be provided in direct rodents by closing such openings with cement mortar, concrete masonry, or netal plates. Piping prone to corrosion shall be protected in accordance with

Section 313.0 of the Los Angeles Plumbing Code. (4.406.1)Wall and floor framing shall not be enclosed until it is inspected and found to 10. Materials delivered to the construction site shall be protected from rain or other be satisfactory. 25. Newly installed bathroom exhaust fans shall be ENERGY STAR compliant and 11. Only a City of Los Angeles permitted hauler will be used for hauling of be ducted to terminate to the outside of the building. Provide the (4.408.1)manufacturer's cut sheet for verification. 12. For all new equipment, an Operation and Maintenance Manual including, at a 26. Newly installed bathroom exhaust fans, not functioning as a component of a

minimum, the items listed in Section 4.410.1, shall be completed and placed in whole house ventilation system, must be controlled by a humidistat which shall be readily accessible the building at the time of final inspection. 27. The heating and air-conditioning systems shall be sized and designed using

2014 Los Angeles Green Building Code WATER CONSERVATION NOTES - ORDINANCE #184248 RESIDENTIAL BUILDINGS 9. In new buildings of 25 stories or less, the cooling towers PLUMBING SYSTEM shall comply with one of the following A Shall have a minimum of 6 cycles of concentration Multi-family dwellings not exceeding three stories and

containing 50 units or less shall install a separate meter or submeter within common areas and within each individual dwelling unit. . Water use reduction shall be met by complying with one of A. Provide a 20% reduction in the overall potable water use within the building. The reduction shall be based on the maximum allowable water use for plumbing ixtures and fittings as required by the Los Angeles Plumbing Code. Calculations demonstrating a 20%

B. New fixtures and fittings shall comply with the maximum flow rates shown in Table 4.303.4.2, or Plumbing fixtures shall use recycled water. **Exception:** Fixture replacements 3. New building on a site with 500 square feet or more of

reduction in the building "water use baseline", as

established in Table 4.303.4.1, shall be provided; or

potable water system is replaced, shall have separate meters or submeters for outdoor water use.

c. The hot water supply piping shall be installed and insulated in accordance with Section RA3.6.2 of (Los Angeles Plumbing Code Section 610.4.1) **IRRIGATION SYSTEM** . A water budget for landscape irrigation use that conforms

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Page 2 of 2

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density fiberboard has a maximum thickness of 6/16 inches (8 mm)

SECTION: 07 31 13—ASPHALT SHINGLES

REPORT HOLDER:

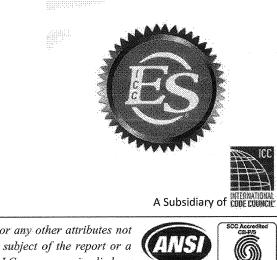
MALARKEY ROOFING PRODUCTS

POST OFFICE BOX 17217 3131 NORTH COLUMBIA BOULEVARD PORTLAND, OREGON 97217

EVALUATION SUBJECT:

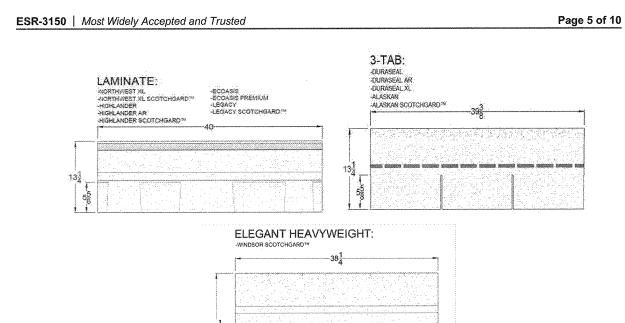
MALARKEY ENGINEERED AND POLYMER-MODIFIED ASPHALT SHINGLES

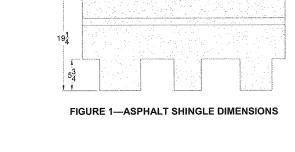




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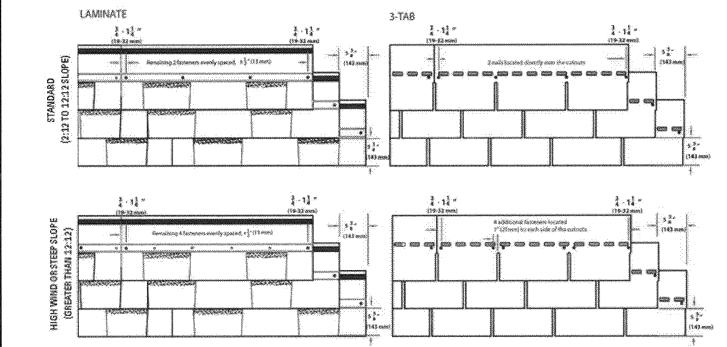


FIGURE 2—NAILING INSTRUCTIONS

ES ICC EVALUATION SERVICE Most Widely Accepted and Trusted ESR-3150* **ICC-ES Evaluation Report** Reissued January 2015 This report is subject to renewal January 2017 www.icc-es.org | (800) 423-6587 | (562) 699-0543 A Subsidiary of the International Code Council®

DIVISION: 07 00 00—THERMAL AND MOISTURE fillers applied onto a fiberglass mat and surfaced with mineral roofing granules. The shingles have an Section: 07 31 13—Asphalt Shingles REPORT HOLDER:

1.0 EVALUATION SCOPE

Properties evaluated:

Weather resistance

■ Fire classification

Wind resistance

3.0 DESCRIPTION

manufacturing locations.

3.1 General:

2.0 USES

Compliance with the following codes:

in this report are the same sections in the ADIBC

installed in accordance with this report.

3.2 Engineered Asphalt Shingles:

3.2.1 Northwest XL: Northwest XL shingles are self-

approximate weight of 260 pounds/100 ft² (13 kg/m²) and dimensions of 13¹/₄ inches by 40 inches (337 mm by 3.2.2 Northwest XL Scotchgard™: Northwest XL MALARKEY ROOFING PRODUCTS Scotchgard™ shingles are identical to the Northwest XL POST OFFICE BOX 17217 except for the addition of copper roofing granules, for algae 3131 NORTH COLUMBIA BOULEVARD resistance, on the top surfacing. PORTLAND, OREGON 97217

(800) 545-1191 3.2.3 Highlander: Highlander shingles are self-sealing www.malarkeyroofing.com laminated shingles that consist of bitumen and fillers applied onto a fiberglass mat and surfaced with mineral **EVALUATION SUBJECT:** roofing granules. The shingles have an approximate weight of 242 pounds/100 ft² (12 kg/m²) and dimensions of MALARKEY ENGINEERED AND POLYMER-MODIFIED $13^{1}/_{4}$ inches by 40 inches (337 mm by 1016 mm). ASPHALT SHINGLES

3.2.4 HighlanderAR: Highlander AR shingles are identical to the Highlander except for the addition of copper roofing granules, for algae resistance, on the top surfacing. 3.2.5 Higlander Scotchgard™: Highlander ■ 2015, 2012 and 2009 International Building Code® (IBC) Scotchgard™ shingles are identical to the Highlander ■ 2015, 2012 and 2009 International Residential Code® exept for the addition of copper roofing granules, for superior algae resistance, on the top surfacing. ■ 2013 Abu Dhabi International Building Code (ADIBC)[†]

3.2.6 Ecoasis: Ecoasis shingles are self-sealing laminated shingles that consist of bitumen and fillers [†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced applied onto a fiberglass mat and surfaced with reflective roofing granules. The shingles have an approximate weight of 242 pounds/100 ft² (12 kg/m²) and dimensions of $13^{1}/_{4}$ inches by 40 inches (337 mm by 1016 mm).

3.2.7 Dura-Seal: Duraseal are self-sealing, single layer, 3-tab shingles that consist of bitumen and fillers applied on a fiberglass mat and surfaced with roofing granules. The shingles have an approximate weight of 200 pounds per 100 ft² (10 kg/m²) and dimensions of 13¹/₄ inches by The Malarkey asphalt shingles described in this report 39³/₈ inches (337 mm by 1000 mm). meet the requirements for Class A roof coverings when 3.2.8 Dura-Seal AR: Duraseal AR are self-sealing, single layer, 3-tab shingles that consist of bitumen and

fillers applied on a fiberglass mat and surfaced with algae resistant roofing granules. The shingles have an approximate weight of 200 pounds per 100 ft² (10 kg/m²) The Malarkey asphalt shingles are engineered or polymerand dimensions of $12^{1}/_{4}$ inches $39^{3}/_{8}$ inches (337 mm by modified self-sealing shingles complying with ASTM D3462. See Table 1 and Figure 1 for product names, type (three-tab or laminated) and dimensions. See Table 2 for 3.2.9 Dura-Seal XL: Duraseal XL are self-sealing, single layer, 3-tab shingles that consist of bitumen and fillers applied on a fiberglass mat and surfaced with roofing granules. The shingles have an approximate weight of

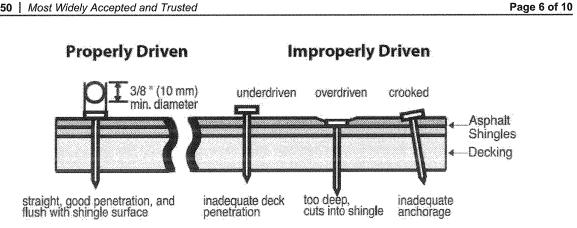
235 pounds per 100 ft² (11 kg/m²) and dimensions of

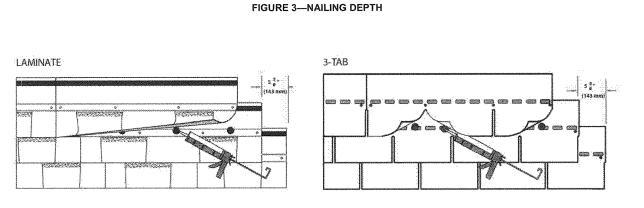
*Revised March 2015

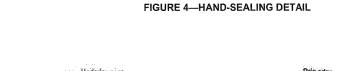
sealing laminated shingles that consist of bitumen and 13¹/₄ inches by 39³/₈ inches (337 mm by 1000 mm).

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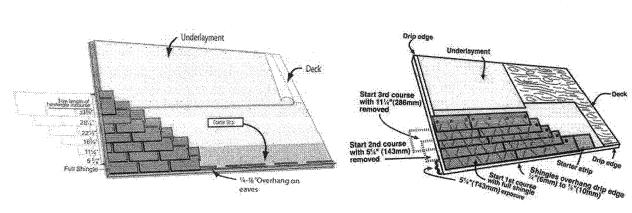


FIGURE 5—APPLICATION WITH 55/8-INCH OFFSET; DIAGONAL PATTERN

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3.2.10 EZ-Ridge: EZ-Ridge high profile decorative ridge shingles with sealant consist of an SBS blend asphalt coating applied onto a fiberglass mat and surfaced with (482.6 mm by 72 mm). colored ceramic granules. EZ-Ridge is 8 inches wide by $11^{1}/_{2}$ inches long (203 mm by 292 mm) and has an

Fasteners must comply with ASTM F1667 and must be exposure of 8¹/₄ inches (210 mm). minimum No. 12 gage [0.105-inch-diameter (2.67 mm] 3.2.11 EZ-Ridge XT: EZ-Ridge XT high profile decorative shank], ³/₈-inch-diameter-head (9.5 mm), galvanized shingles with sealant consist of an SBS blend asphalt steel, stainless steel, aluminum or copper roofing nails, coating applied onto a fiberglass mat and surfaced with Fasteners must be of sufficient length to penetrate into the colored granules. The shingles have an approximate sheathing ³/₄ inch (19.1 mm), or through the sheathing, weight of 50 pounds and 22 shingles in a box. The EZ-Ridge XT is 10 inches wide by 111/2 inches long (254 mm by 292 mm) and has an exposure area of 3.5 Underlayment: $8^{1}/_{4}$ inches (210 mm).

Under the 2015 IRC, the roof underlayment must be in accordance with Section R905.1.1 and Table R905.1.1(1). 3.2.12 10" Hip & Ridge Strips: 10" Hip & Ridge Strips are Under the 2015, 2012 and 2009 IBC, the roof SBS-modified fiberglass hip & ridge caps intended for use underlayment must be in accordance with Section with wide ridge vents. Hip & Ridge Strips consist of a fiberglass mat impregnated and coated on both sides with 1507.2.3. Under the 2012 and 2009 IRC, the roof a modified-bitumen asphalt surfaced with embedded underlayment must be in accordance with Section ceramic granules. Bundle weight is approximately 3.6 Asphalt Cement:

polymer-modified asphalt shingles must comply with the

1-inch-by-6-inch (25-by-152 mm) lumber installed as solid

sheathing conforming to 2015 IBC Section 2304.8.2 or

2308.7.10 [2012 and 2009 IBC Section 2304.7.2 or

2308.10.8]. The shingles must be installed in accordance

with IBC Section 1507.2 or IRC Section R905.2, except as

noted in this report. See Figure 5 for typical installation

4.1.2 Underlayment: Under the 2015 IRC, the roof

underlayment must be installed in accordance with Section

R905.1.1 and Tables R905.1.1(2) and R905.1.1(3). Under

the 2015, 2012 and 2009 IBC, the roof underlayment must

be installed in accordance with Section 1507.2.8. Under

the 2012 and 2009 IRC, the roof underlayment must be

installed in accordance with Section R905.2.7. Minimum

roof slope must be 2:12. For roof slopes greater than 4:12,

the roof deck must be covered with a minimum of one layer

of underlayment as described in Section 3.5 of this report.

For slopes between 2:12 and 4:12, two layers of the

underlayment described in Section 3.5 of this report are

required. In areas where there has been a history of ice

forming along the eaves, causing a backup of water, an ice

barrier must be provided in accordance with IBC Section

1507.2.8.2 or 2015 IRC Section R905.2.7 [2012 and 2009

4.1.3 Shingle Application: The shingles are installed

with vertical joints of each course of shingles offset

5⁵/₈ inches (143 mm) from the preceding course and with a

maximum exposure to the weather of 5⁵/₈ inches

IRC Section R905.2.7.1], as applicable.

TRIM ALL VALLEY LINE SHINGLES -

FIGURE 6-VALLEY INSTALLATION DETAIL

70 pounds and each tab is $9^{7}/8$ inches wide by $13^{1}/4$ inches long (251 mm by 337 mm). Asphalt roofing cement used for hand-sealing the shingles 3.2.13 12" Hip & Ridge Strips: 12" Hip & Ridge Strips are must comply with ASTM D4586, Type I, Class I, or Type II, SBS-modified fiberglass hip and ridge caps intended for use with wide ridge vents. 12" Hip & Ridge Strips consist of a fiberglass mat impregnated and coated on both sides 4.0 INSTALLATION with a modified-bitumen asphalt surfaced with embedded ceramic granules. Bundle weight is 4.1.1 General: Installation of Malarkey engineered and

applicable code, this report and the manufacturer's 3.3 Polymer-Modified Asphalt Shingles published installation instructions. The manufacturer's published installation instructions must be available at the 3.3.1 Alaskan: Alaskan shingles are self-sealing, singlejobsite at all times during installation. When installed on layer three-tab shingles that consist of polymer-modified new construction in accordance with this section, the bitumen and fillers applied onto a fiberglass mat and shingles are a Class A roof covering. surfaced with mineral roofing granules. The shingles have an approximate weight of 235 pounds/100 ft² (11 kg/m²) Roof deck must be code-complying, minimum 3/8-inchand dimensions of 13¹/₄ inches by 39³/₈ inches (337 mm by thick (9.5 mm), exterior-grade plywood; ⁷/₁₆-inch-thick (11.1 mm) oriented strand board (OSB); or nominally

approximately 63.5 pounds. and each tab is 12 inches

wide by $13^{1}/_{4}$ inches long (305 mm by 337 mm).

shingles are identical to the Alaskan except for the addition of copper roofing granules, for algae resistance, on the top 3.3.3 Legacy: Legacy shingles are self-sealing laminated shingles that consist of polymer-modified bitumen and fillers applied onto a fiberglass mat and surfaced with mineral roofing granules. The shingles have an approximate weight of 275 pounds/100 ft² (13 kg/m²) and

3.3.2 Alaskan Scotchgard™: H Alaskan Scotchgard™

dimensions of 13¹/₄ inches by 40 inches (337 mm by 1016 mm). 3.3.4 Legacy Scotchgard™: Legacy Scotchgard™ shingles are identical to the Legacy except for the addition of copper roofing granules, for algae resistance, on the top

3.3.5 Ecoasis Premium: Ecoasis Premium shingles are self-sealing laminated shingles that consist of polymermodified bitumen and fillers applied onto a fiberglass mat and surfaced with reflective roofing granules, as well as copper roofing granules on the top surfacing for algae resistance. The shingles have an approximate weight of 275 pounds/100 ft² (13 kg/m²) and dimensions of $13^{1}/_{4}$ inches by 40 inches (337 mm by 1016 mm). **3.3.6 Windsor:** Windsor Scotchgard™ shingles are heavy weight self-sealing laminated shingles that consist of polymer-modified bitumen and fillers applied onto a

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fiberglass mat and surfaced with mineral roofing granules.

Page 2 of 10 The shingles have an approximate weight of 350 pounds per 100 ft² and dimensions of 19¹/₄ inches by 38¹/₄ inches

questionable whether the sealant strip will activate and seal the shingles, the shingles must be hand-sealed. For three-tab shingles, hand-sealing consists of placing two spots of tab adhesive, approximately ¹/₂ inch (12.7 mm) in diameter, under each tab near the corners. Hand-sealing of laminated shingles consists of applying four 15/16-inch (23.8 mm) spots of tab adhesive to the back of the shingles, 1 inch and 13 inches (25 mm and 330 mm) in from each side and 1 inch (25 mm) up from the bottom of the shingle. See Figure 4.

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4.1.4 Shingle Fastening: For roof slopes of 2:12 to 12:12, each shingle is fastened to the roof deck using four fasteners, located as shown in Figure 2. For roof slopes exceeding 12:12, the shingles must be hand-sealed in See Figure 3 for nailing depth illustration.

accordance with Section 4.1.3 and fastened to the roof deck using six fasteners, located as shown in Figure 2. 4.1.5 Valley Construction, Other Flashings and Drip Edges: Roof valleys must be flashed in accordance with IBC Section 1507.2.9.2 or IRC Section R905.2.8.2. See Figure 6 for typical installation details. Other flashings must be installed in accordance with IBC Sections 1503.2 and

1507.2.9 or IRC Sections R903.2 and R905.2.8. Under the

2015 IBC and IRC, drip edges must be installed in accordance with IBC Section 1507.2.9.3 or IRC Section R905.2.8.5. 4.1.6 Hip & Ridge: The hip & ridge shingles must be centered over hips and ridges, and must be fastened to the roof deck using two fasteners, one located on either side of the hip or ridge, 6¹/₂ inches (165 mm) from the exposed end and 1 inch (25.4 mm) up from the shingle edge. Hip and ridge shingles must be installed with a maximum 5⁵/₈-inch (143 mm) exposure to the weather. See Figure 7 and Figure 8 for details.

When the asphalt shingles described in this report are installed over existing Class A or Class C asphalt shingles in accordance with this section, the roofing assemblies are recognized as Class A roof coverings. The existing asphalt roof shingle covering must be inspected in accordance with the provisions and limitations of 2015 IBC Section 1511 [2012 and 2009 IBC Section 1510] or 2015 IRC Section R908 [2012 and 2009 IRC Section R907]. Prior to reroofing, hip and ridge shingles must be removed and a single layer of nonperforated felt underlayment, minimum

ASTM D226 Type II (No. 30), must be installed over the existing asphalt shingles. Except as noted in this section, the shingles must be installed in accordance with Section 4.1 of this report. Fasteners must be of sufficient length to penetrate ³/₄ inch (19 mm) into the sheathing or through the sheathing, whichever is less. Valley flashing and other flashings must comply with Section 4.1.5 and the following,

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MAIL LOCATION FOR HIP AND FIDGE SHINGLES

IALARKEY HIP & RIDGE SHINGLES ARE PERFORATED AND SEPARATE INTO 4 PIECES (225) NOTE: 12" HIP & RIDGE SHINGLE - 3 PER SHEETI (22

FIGURE 7—TYPICAL HIP AND RIDGE INSTALLATION

Page 3 of 10

(143 mm). In colder climates or wind regions where it is ■ IBC: 2015 Sections 1511.5 and 1511.6 [2012 and 2009 Sections 1510.5 and 1510.6]. ■ IRC: 2015 Sections R908.5 and R908.6 [2012 and 2009 IRC Sections R907.5 and R907.6].

> Malarkey asphalt shingles have been tested for wind resistance in accordance with ASTM D3161 or ASTM D7158. Shingles tested in accordance with ASTM D3161 are classified as Class A or Class F and qualify for use under 2015 IBC Section 1504.1.1 [2012 and 2009 IBC Section 1507.2.7.1] or IRC Section R905.2.4.1, as applicable. Shingles tested in accordance with ASTM D7158 are classified as Class H and qualify for use in locations where the maximum basic wind speed is 150 mph (67 m/s) or less with an exposure category of B or C (ASCE 7) and a maximum building height of 60 feet (18.3 m). Installation must be in accordance with IBC

Section 1507.2.7 or IRC Section R905.2.6, as applicable. 5.0 CONDITIONS OF USE The Malarkey asphalt shingles described in this report

comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report. subject to the following conditions: 5.1 Installation complies with this report, the manufacturer's published installation instructions and

the applicable code. If there is a conflict between the installation instructions and this report, this report 5.2 The products are manufactured at the plant locations

listed in Table 2 of this report, under a quality control program with inspections by ICC-ES. 6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's published installation instructions. 6.2 Reports of testing in accordance with ASTM D3462, ASTM D3161, ASTM D7158, and ASTM E108.

6.3 Quality control documentation. Each bundle of shingles bears a label with the name and address of the manufacturer (Malarkey Roofing Products) the product name, installation instructions, the ICC-ES evaluation report number (ESR-3150), and the name of the

inspection agency (ICC-ES). Additionally, in accordance

with ASTM D3462, each bundle of shingles is marked with

the area of the roof surface covered, ASTM designation,

Page 8 of 10

style, and color of the product.

TABLE 1-PRODUCT LIST AND CIMENSIONS DIMENSIONS (Height x Width) (inches) PRODUCT Alaskan 10¹/₄ x 39³/₈?__ Alaskan Scotchgard™ 13¹/₄ x 39³/₈ ___ Three tab $3^{1}/_{4} \times 39^{3}/_{8}$ Dura-Seal Dura-Seal AR $13^{1}/_{4} \times 39^{3}/_{8}$ Dura-Seal XL $3^{1}/_{4} \times 39^{3}/_{8}$ Northwest XL 13¹/₄ x 40 Nonhwest XL Scdtchgard™ 13¹/₄ x 40 13¹/₄ x 40 ³ Highlander 13¹/₄ X 40 Highlander AR Highlander Scotchgard™ 13¹/₄ x 40 13¹/₄ x 40 Legacy Scotchgard 13¹/₄ x 40 13¹/₄ x 40 Ecoasis Premium $13^{1}/_{4} \times 40$ Windsor Scotchgard™ $9^{1}/_{4} \times 38^{1}/_{4}$ 10" Hip & Ridge $9^{7}/_{8} \times 13^{1}/_{4}$ 12" Hip & Ridge 12 x 13¹/₄ Hip & Ridge $8 \times 11^{1}/_{2}$ EZ Ridge EZ Ridge XT

Page 4 of 10

Page 9 of 10

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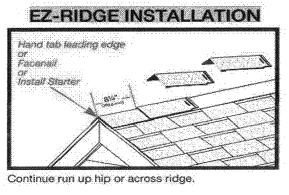
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For SI: 1 inch = 25.4 mm

TABLE 2—MANUFACTURING LOCATIONS

PLANT LOCATION	PRODUCTS MANUFACTURED			
Portland, Oregon	 Alaskan Scotchgard™ Legacy Legacy Scotchgard™ Ecoasis Windsor Dura-Seal Dura-Seal AR Dura-Seal XL 	 Ecoasis Premium Northwest XL Northwest XL Scotchgard™ Highlander- Highlander- AR Highlander Scotchgard™ 10" Hip & Ridge 12" Hip & Ridge 		
South Gate, California	The Alaskan Scotchgard™ Legacy™ Dura-Seal Dura-Seal AR Dura-Seal XL Highlander	Highlander AR Highlander Scotchgard™ Ecoasis Ecoasis Premium Northwest XL Northwest XL Scotchgard™		
Oklahoma City, Oklahoma	Highlander Highlander AR Highlander Scotchgard Dura-Seal Dura-Seal AR	Dura-Seal XLLegacy™ Legacy™ Scotchgard 10" Hip & Ridge 12" Hip & Ridge		

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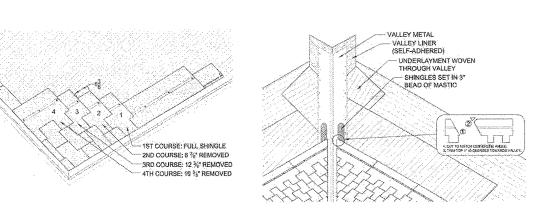


FIGURE 8—TYPICAL EZ RIDGE INSTALLATION

FIGURE 9—TYPICAL WINDSOR SHINGLE INSTALLATION

READY TO ISSUE BY MARJAN SHENASI

SCALE N/A

A0.5

ROOFING MATERIAL

ANTONIO R. VILLARAIGOSA

ROBERT R. "BUD" OVROM RAYMOND S. CHAN, C.E., S.E.

DEPARTMENT OF BUILDING AND SAFETY

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SEPAND SAMZADEH

November 1, 2014 Issued Date: November 1, 2012 2011 LABC Code:

RESEARCH REPORT: RR25567

GENERAL APPROVAL- Renewal- 1. Tufflex-II Fire-Retardant Roof Covering and Walking Deck System; 2. TUFFLEX Deck Coating Roof Covering.

DETAILS

1. TUFFLEX-II Fire-Retardant Roof Covering and Walking Deck System:

The TUFFLEX-II Roof Covering and Walking Deck System consists of a multicomponent coating for exterior walking deck and roof covering. The system is applied over plywood substrates which has a minimum ¼ inch per foot slope for water drainage. Components of the system consists of galvanized expanded metal lath secured to the deck over which a polymer reinforced mortar mix known as TUFFLEX-II MORTAR are troweled. A layer of fiberglass matting is then bonded to the surfacing using TUFFLEX-II Basecoat Resin. A texture coat of TUFFLEX-II Texture Coat mixture is then applied followed by a clear or pigmented sealer coat of TUFFLEX-II Final Coat.

The use of the roof system as a class "A" roof covering is subject to the following conditions:

- (1). The roofing components shall be delivered to the job sites in sealed containers identified by the manufacturer's name and product designation.
- (2). Application of the components shall be onto a plywood deck in accordance with the manufacturer's instructions (a copy shall be available at the job site)

RR 25567 Page 1 of 3

AN EQUAL EMPLOYMENT OPPORTUNITY - AFFIRMATIVE ACTION EMPLOYER

consistent with the description and requirements herein. All surfaces which

TUFFLEX, POLYMERS, LLC RE: 1. TUFFLEX-II Fire-Retardant Roof Covering and Walking Deck System and 2.TUFFLEX Deck Coating Roof Covering

are to be coated shall be free of water, curing compounds, bond breakers,

2. TUFFLEX Deck Coating Roof Covering:

- Over concrete, the base coat is TUFFLEX Base Coat applied by squeegeing or trowelling to a minimum thickness of 25 mils. The second coat is TUFFLEX Base Coat applied by squeegeing to a minimum thickness of 25 mils.
- Over 5/8" wood structural panel, the base coat is TUFFLEX Base Coat applied by squeegeing or trowelling to a minimum thickness of 35 mills. The second coat is TUFFLEX Base Coat applied by squeegeing to a minimum thickness of 20 mils. Over the second coat, a fine aggregate is applied at the rate of 0.8 lbs. per sq. ft. followed by clear or pigmented coat of TUFFLEX Color Coat applied 3 mils thick.
- The wood structural panel shall be exterior grade tongue and groove with top side plugged and sanded. All joints are caulked with a rubber caulking approved by TUFFLEX, INC. The wood structural panel shall be fastened to all structural supports with screws or cement-coated nails spaced not more than 4" on center.

The use of the TUFFLEX Deck Coating as a class "B" roof covering is subject to the following conditions:

- (1). The urethane materials shall be delivered to the job sites in sealed containers identified by the manufacturer's name and product designation.
- Application of materials shall be in accordance with the manufacturer's instructions (a copy shall be available at the job site) consistent with the description and requirements herein. All surfaces which are to be coated shall be free of water, curing compounds, bond breakers, hardeners, oil, etc.
- (3). Surfaces to be covered shall be sound, clean and free of laitance, oil, wax and grease. Cracks in concrete shall be filled and sealed.
- (4). Fine aggregate and top coat as indicated for wood decks, may be used over the second coat on the concrete decks.

RR 25567

Page 2 of 3

TUFFLEX, POLYMERS, LLC RE: 1. TUFFLEX-II Fire-Retardant Roof Covering and Walking Deck System and 2.TUFFLEX Deck Coating Roof Covering

DISCUSSION

The report is in compliance with the 2011 Los Angeles City Building Code.

The approval is based on tests.

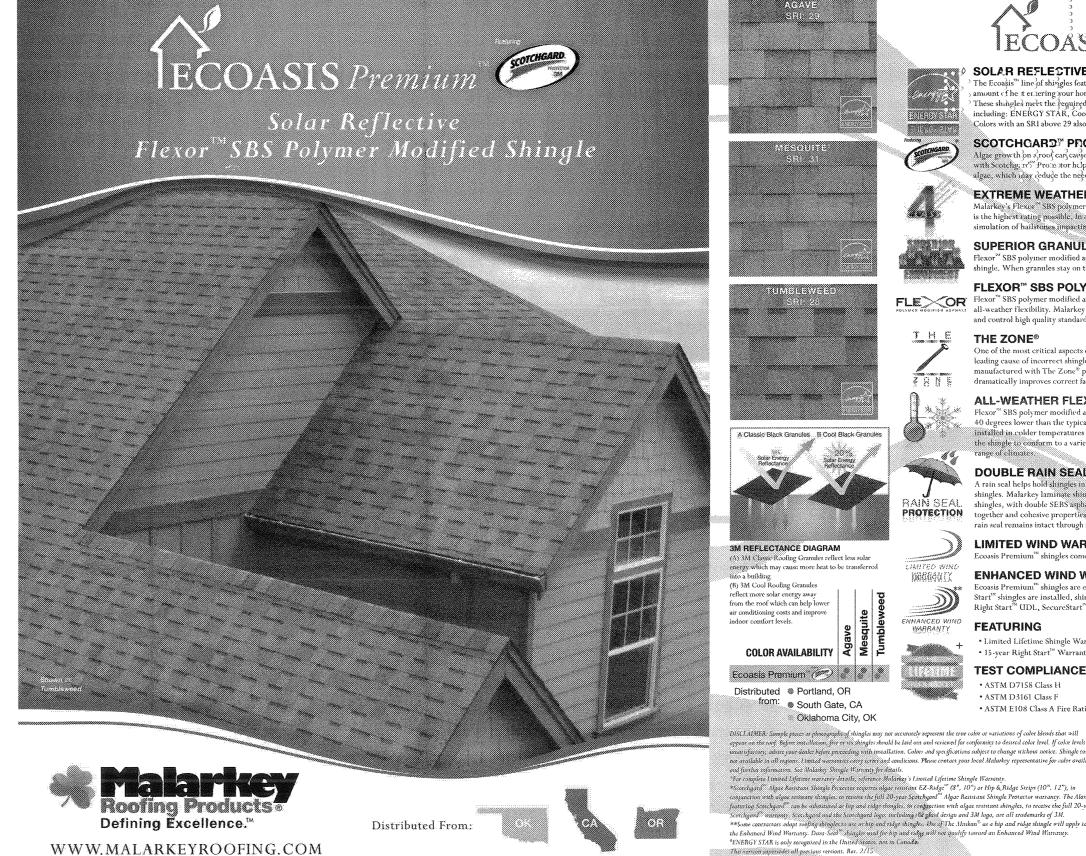
Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

ALLEN PEERY, Chief Engineering Research Section 201 N. Figueroa St, Room 880 Los Angeles, CA 90012 Phone - 213-202-9812

RR25567/MSWord.2010 4B/4C/6A2/1501.1/1503

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SOLAR REFLECTIVE SHINGLES

lors with an SRI above 29 also meet LEED requirements.

SCOTCHGARD™ PROTECTION FROM 3M

EXTREME WEATHER PROTECTION

SUPERIOR GRANULAR EMBEDMENT

rain seal remains intact through freeze and thaw eyeles.

FLEXOR™ SBS POLYMER MODIFIED ASPHALT

Ecoasis" line of shingles feature Cool Roofing Granules from 3M that reflect tolar rays, which may reduce the

Algae growth on a roof can cause black stresks, which can alter the color of your roof and make it appearaged. Shingles

is the highest rating possible, in a Class 4 impact test, Malarkey's Flexor. SBS polymer modified shingles withstood a simulation of hailstoines impacting a roof at 90 mph (144 kph) without sustaining damage.

Flexor[™] SBS polymer modified asphalt is resilient through temperature cycles, providing greater granule adhesion to the shingle. When granules stay on the shingle, it creates a barrier from the elements and your roof lasts longer.

with Scotchig, re?" Proce for help maintain the absthetic appearance of your roof by resisting black streaks caused by algae, which may feduce the need to clean your roof. Shingles with Scotch gare?" Protector include a 20-year warranty.

mount of he it entering your home and can result in lower attic temperatures compared to standard spingle colors.

These shingles meet the feguined reflectance to be designated with industry slearing energy conservation standards,

ncluding: ENERGY STAR, Cool Roof Rating Council, and California Energy Code, Title 24, Part 6 compliance.

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These property Architect unauthor written c Architect law. K linc. disc the document in part at

• ASTM E108 Class A Fire Rating • UL 2218 Class 4 • FBC Approval -- #14809 Defining Excellence.™ P.O. BOX 17217, Portland, OR 97217 503.283.1191 | 800.545.1191 | Fax: 503.289.7644

WWW,MALARKEYROOFING.COM

DECK COATING

Department of Building and Safety / City Planning// Slope Analysis and Maximum Residential Floor Area Verification Form L.S. NO. ROBERT HENNON am the licensed professional surveyor or Registered Civil (Print Name) **SECTION IV.** (To be completed by City Planning Staff) Approved Maximum Residential Floor Area for the property listed below: 4,382 sq.ft.

Property Information: Assessor Parcel Number: 4420-012-032 1341 N. Las Canoas Rd. City Planning's Staff: 2 Sets of Slope Analysis Maps Stamped and Signed analym Sommone Name (Please Print)

May 4, 2011

May 4, 2011

Department of Building and Safety / City Planning ONAL LAND Slope Analysis and Maximum Residential Floor Area Verification Formatti DAVIO

SECTION I. Name Applicant(s)/Property Owner(s) Jason Ung 5573 Address: 11150 W D 14mp 1 C STE 700 Phone Number: SECTION II. Project Address: 1341 LAS CANOASTOR CALIFOR Lot: 30 Tract: 19890 Assessor Parcel Number: 4420-012-032

Proposed Project Description: (describe in detail, including all proposed work and dimensions) NIW covered patio, deck (5), post/soa

SECTION III. Circle the Zone of the project site in Table 1 and complete Worksheet 1.

*Residential Floor Area shall be calculated as defined in LAMC Section 12.03

lope Bands (%)	R1	RS	RE9	RE11	RE15	RE20	RE40	RA
0 – 14.99	0.5	0.45	0.40	0.40	0.35	0.35	0.35	0.25
15 - 29.99	0.45	0.40	0.35	0.35	0.30	0.30	0.30	0.20
30 - 44.99	0.40	0.35	0.30	0.30	0.25	0.25	0.25	0.15
45 - 59.99	0.35	0.30	0.25	0.25	0.20	0.20	0.20	0.10
60 - 99.99	0.30	0.25	0.20	0.20	0.15	0.15	0.15	0.05
100+	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(A)	(B)		(C)		(D)
Slope Bands (%)	Lot Area within each slope band (sq-ft). From survey/ contour map.		FAR from the Zone circled in Table 1		Max. Residential Floor Area* allowed within each slope band
0 - 14.99	6044	Х	0.40	=	2418
15 – 29.99	956	Х	0.35	=	335
30 – 44.99	1156	Х	0.30	=	347
45 - 59.99	1461	Х	0,75	=	365
60 - 99.99	4583	Х	0,20	=	917
100 ÷	614	Х	0.00	=	0 ,

ROOFING MATERIAL CITY OF LOS ANGELES

BOARD OF
BUILDING AND SAFETY

HELENA JUBANY

VAN AMBATIELOS

E. FELICIA BRANNON

VICTOR H. CUEVAS

SEPAND SAMZADEH

RR 25567

Page 3 of 3

SCALE

ANTONIO R. VILLARAIGOSA

ROBERT R. "BUD" OVROM RAYMOND S. CHAN, C.E., S.E.

DEPARTMENT OF BUILDING AND SAFETY

LOS ANGELES, CA 90012

RESEARCH REPORT: RR 25042-T Genesis Coatings, Inc. 2780 La Mirada Drive, Suite #A (CSI # 09960) Vista, CA 92081

Attn: Nanette Schwartz Expires: December 1, 2014 (760) 599-6011 Issued: January 1, 2013 Code: 2011 LABC

GENERAL APPROVAL - Renewal - Graffiti Melt -Sacrificial Anti-Graffiti Coating and GCP1000 Non-Sacrificial Anti-Graffiti Coating for protection of all types of surfaces against

DETAILS

ANTI-GRAFFITI

Graffiti Melt is a liquid, wax based, sacrificial (disposable) coating, used for protecting surfaces from graffiti. Graffiti Melt is composed of water and food grade materials and is considered to be non-toxic. GCP1000 is a two part, water based aliphatic polyurethane used for protecting surfaces from graffiti

The Approval is subject to the following conditions:

- 1. Anti-Graffiti coating must have the capability of having all types of paints and graffiti materials completely removed without damaging the uncoated surfaces to which they are
- 2. The anti-graffiti coating and products required to remove graffiti from the coating must be non-toxic and comply with all applicable requirements of the South Coast Air Quality Management District.
- 3. The coating must be weather and rain resistant, abrasive resistant, peel resistant, ultraviolet resistant, non-yellowing and allow moisture vapor transmission as tested in accordance with applicable ASTM Standards.
- 4. The removal of graffiti shall cause little or no change in the appearance of treated surface. RR 25042-T Page 1 of 2

IADBS G-5 (Rev.12/12) AN EQUAL EMPLOYMENT OPPORTUNITY - AFFIRMATIVE ACTION EMPLOYER

Genesis Coatings, Inc. RE: Graffiti Melt - Sacrificial Anti-Graffiti Coating and GCP1000 Non-Sacrificial Anti-Graffiti

- 5. Disposal of graffiti removal by-products must conform to all state and city waste disposal
- 6. Manufacturer shall provide a copy of instructions for application of the coating, material specifications, and method and materials required to remove graffiti for each job site.

The report is in compliance with the 2011 City of Los Angeles Building Code.

The approval is based on satisfactory field test. The notarized statement from manufacturer certifying that the product complies with Conditions No. 1 thru 5 of this approval is on file with the Engineering Research Section. This report is approved on a temporary basis until more specific requirements are established. This product complies with Los Angeles City's Graffiti Removal Ordinance No. 180895.

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this Approval have been met in the project in which it is to be used.

PRELIMINARY REFERRAL FORM FOR

BASELINE HILLSIDE ORDINANCE No. 181,624

HILLSIDE ORDINANCE No. 168,159

ALLEN PEERY, Chief **Engineering Research Section** 201 N. Figueroa St., Room 880 Los Angeles, CA 90012 Phone - 213-202-9812 Fax - 213-202-9943

Address: 1341 N LAS CANOAS ROAD

1. Is the Continuous Paved Roadway (CPR)* at least 28ft wide from the driveway

2. Is the CPR at least 20ft wide, from the driveway apron of the subject lot to the

Comments: Dedication waived for 16014-30000-04760 per determination letter dated 12-16-16.

*CPR = begins at the driveway apron and must be continuous and without permanent obstacles to the boundary of the Hillside Area.
If "2" and "3" are Yes: COMPLY WITH HILLSIDE ORD. ZA APPROVAL IS NOT REQ'D
If "2" or "3" are No: REFER TO PLANNING FOR APPROVAL PER 12.24X21 OR 12.24X28

apron of the subject lot to the boundary of the Hillside Area?

3. Is the street adjacent to the subject lot at least 20ft wide?

(Note: all streets edjecent to a lot must be considered when the lot has multiple street frontages, such as a corner lot or a through lot.)

APN: 4420012032

Vehicular Access:

Street Type:

2nd Street Name:

Sewer Connection:

☐ Use existing wye and permit

Use existing wye, obtain new permit

Obtain LADBS approval for on-site sewe

boundary of the Hillside Area?

1st Street Name: LAS CANOAS ROAD Lot fronts on a standard hillside limited stree Lot fronts on a sub standard hillside limited street

Lot fronts on a standard hillside limited stree D Lot fronts on a sub standard hillside limited street

Lot located less than 200 ft from sewer mainline

Lot located greater than 200 ft from sewer mainline:

RR 25042-T

Page 2 of 2

DEPARTMENT OF BUILDING AND SAFETY/ DEPARTMENT OF PUBLIC WORKS

PIN: 132B121-538

☐ Yes **☑** No

M2 Yes □ No

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SHEET

Obtain B-Permit from PW/BOE to construct new mainting READY TO IS

Page 3 of 3

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Page 2 of 3

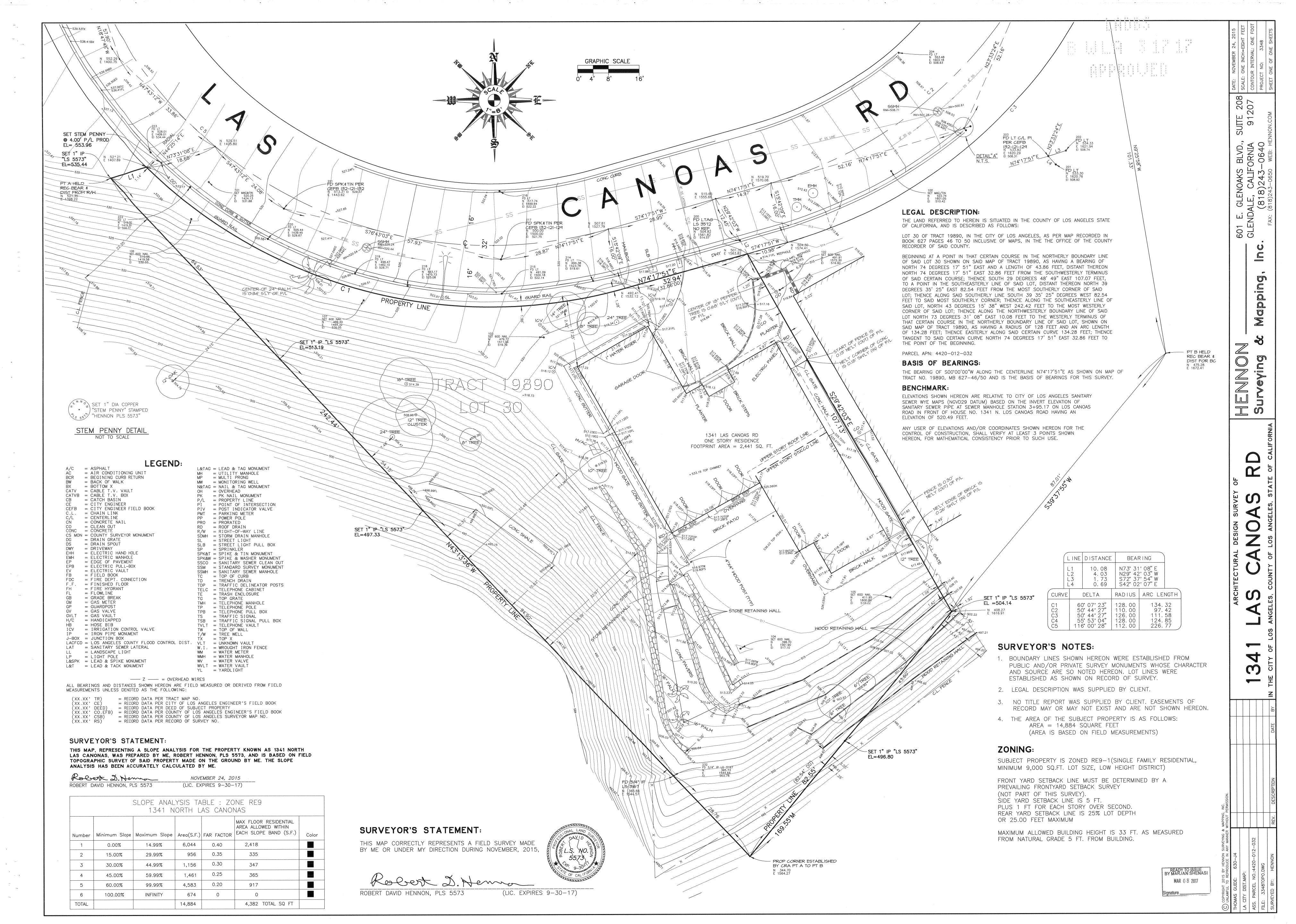
HILLSIDE REFERRAL FORM

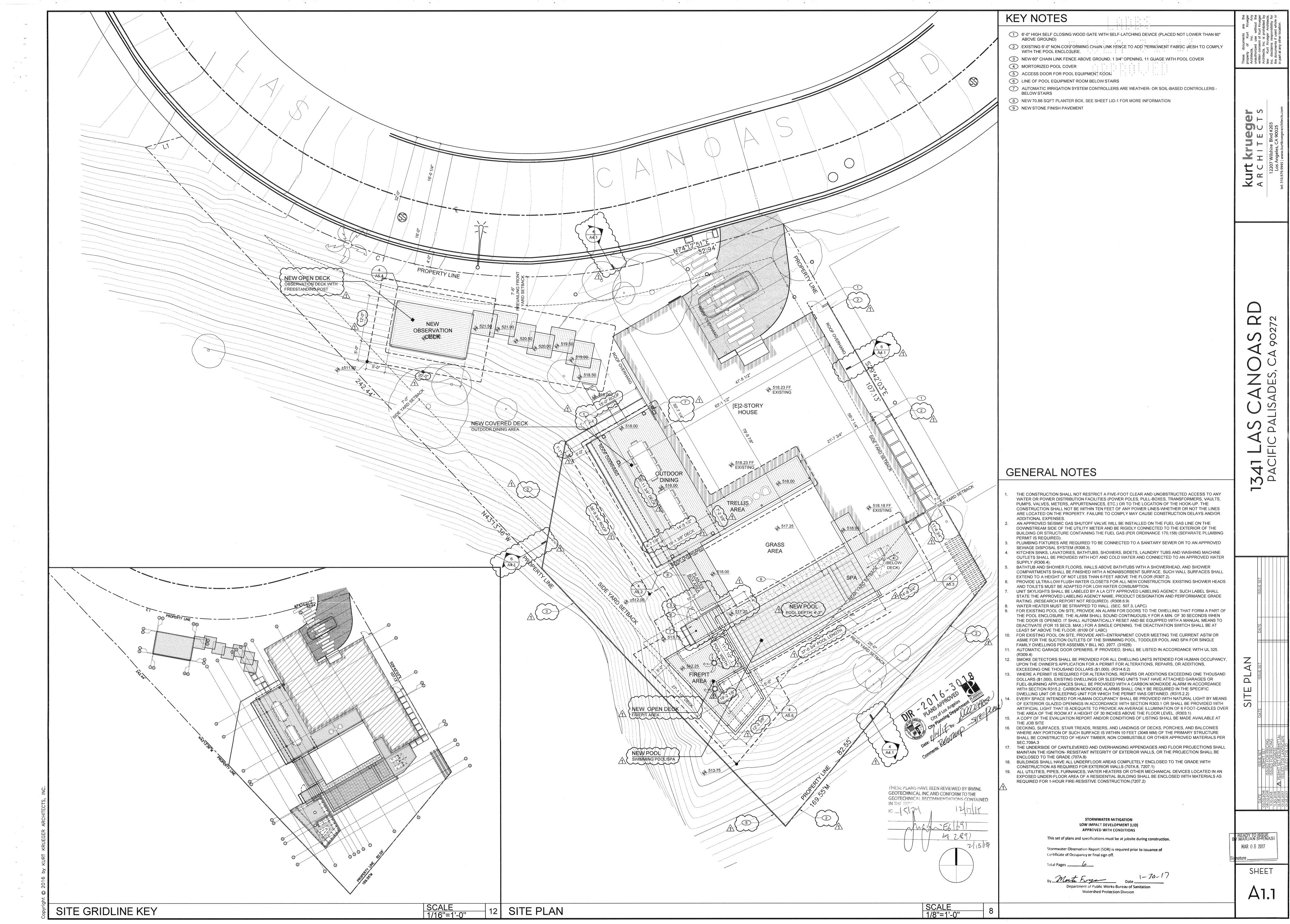
Dedication required width: _____

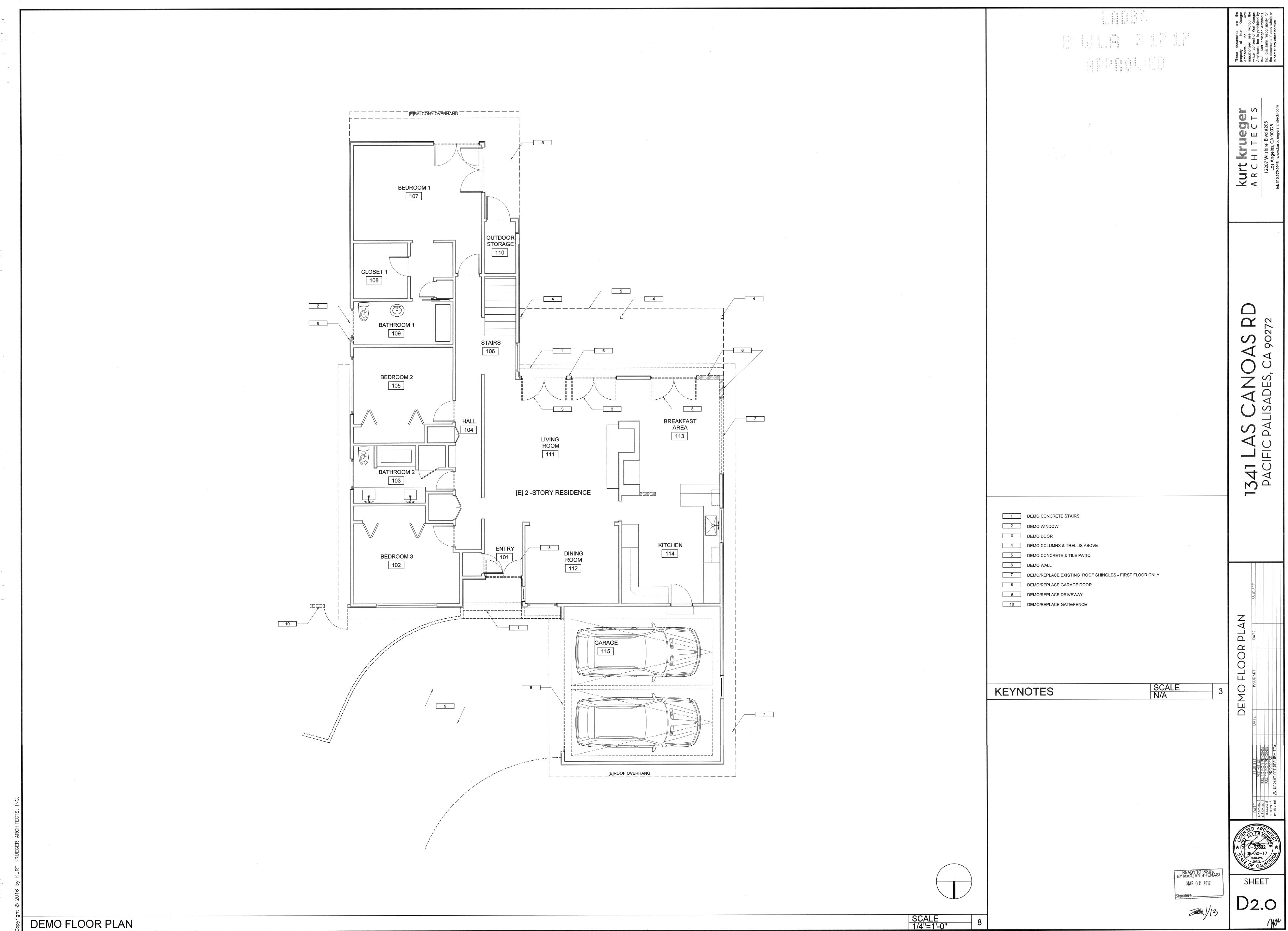
Obtain new connection and new permit

Obtain B-Permit from PW/BOE to construct new mainline

Improvement required







DEMO FLOOR PLAN

