

FA PLANS v1
FA DRAWINGS v1
50% DESIGN SET
FINAL DESIGN REVIEW SET
100% DESIGN SET
DESIGN REVIEW REV1
DESIGN REVIEW REV2
50% PERMIT PROGRESS
50% PERMIT SET
DESIGN REVIEW REV3 111820 120220 022521 072721 081921 120421 011122 040522 052422 060622

ARCHITECT

MODULAR FABRICATOR

APPROVAL STAMP

RETAINING WALLS INSTALLED ON SITE

PATIO INSTALLED ON SITE

THE RULAND RESIDENCE 243 FERNDALE WAY EMERALD HILLS, CA APN: 057-022-070 / 080

COVER

**AS NOTED** 

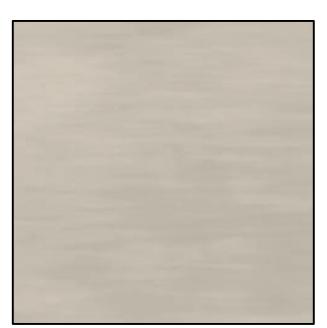
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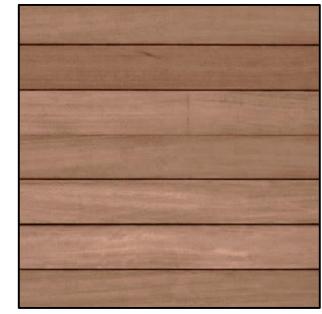
RENDERING



BRONZE FIBER CEMENT PANELS (NON-COMBUSTIBLE) LISTING # 8140-2026:0001 or similar



BEIGE INTEGRAL COLOR STUCCO (NON-COMBUSTIBLE)



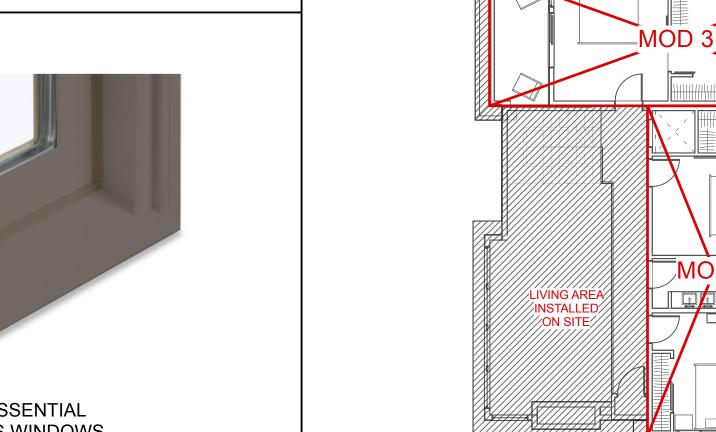
WUI COMPLIANT WOOD EAVES LISTING # 8140-2084:0001 or similar



BRONZE METAL TRIM



MARVIN ESSENTIAL FIBERGLASS WINDOWS **BRONZE FINISH** 



LVL3 - MODULAR / SITE SCOPE

**MATERIALS** 

MODULES OVERVIEW

LEVEL 1 INSTALLED ON SITE

GARAGE INSTALLED ON SITE

LIVING AREA INSTALLED ON SITE

LVL1 - MODULAR / SITE SCOPE

LVL. - MODULAR / SITE SCOPE

CRAWLSPACE

CRAWLSPACE

MOD 2

EAVES INSTALLED

SCALE: 3/32" . 1'-0"



TAX CODE AREA \_ \_ \_ \_ \_

57-2

20'-0"

10'-0"

20'-0"

SITE & BUILDING INFORMATION

VIEW FROM DRIVEWAY APPROACH

VICINITY MAP / ASSESSOR'S PARCEL MAP

GRADING & DRAINAGE PLAN

**TABLE OF CONTENTS** 

DRIVEWAY PLAN & PROFILE

**EROSION CONTROL PLAN** 

TREE PROTECTION PLAN IMPERVIOUS SURFACE MAP WILDLAND URBAN INTERFACE CRC R337 COMPLIANCE

CLASS 'A' SINGLE PLY MEMBRANE

UNDER FLOOR PROTECTION, UNDERSIDE OF APPRENDAGES, EXTERIOR PORCH CEILINGS, EXTERIOR COVERINGS, FLOOR PROJECTIONS:

2x WUI COMPLIANT FIR or STANDARD WOOD o/ 5/8" GYP.BD. **EXTERIOR FINISH:** 

NON-COMBUSTIBLE STUCCO FIBER CEMENT PANELS & SIDING EXTERIOR WINDOWS AND DOORS:

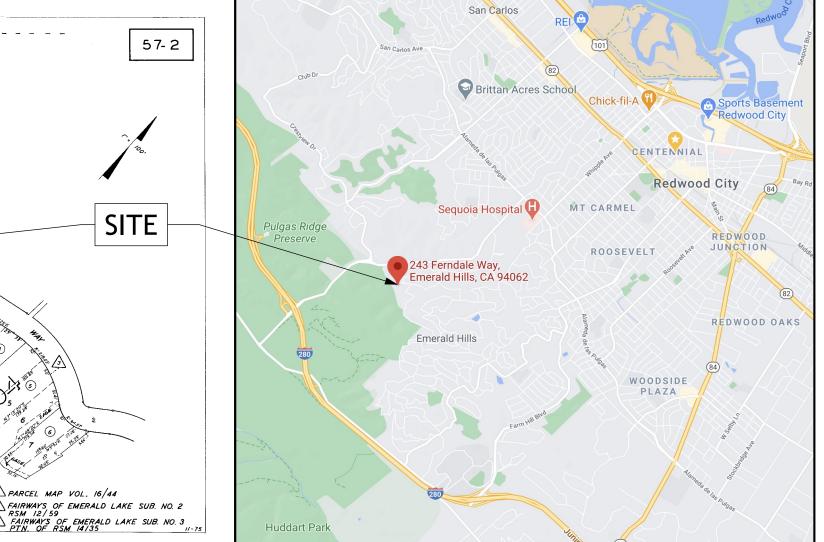
CONSTRUCTED OF MULTI-PANE GLAZING WITH MINIMUM ONE TEMPERED PANE MEETING THE REQ'S OF CRCR337 SOLID CORE WOOD DOORS, STILES AND RAILS NOT LESS THAN 1 3/8" THICK

OSFM CBC CH7A COMPLIANCE #09-03 3.5" VULCAN SOFFIT VENT

WUI CRAWLSPACE VENT SCREEN: GALVANIZED METAL, 1/16" MIN. & 1/8" MAX OPENINGS

DECKING, SURFACES, STAIR TREADS, RISERS, & LANDINGS OF DECKS, WHERE ANY PORTION OF SUCH SURFACE IS WITHIN 10 FEET OF THE PRIMARY STRUCTURE SHALL BE APPROVED IGNITION RESISTANT OR NONCOMBUSTIBLE MATERIALS. STANDARD & PRESSURE TREATED 2X & GREATER DECK FRAMING MATERIAL IS ALLOWED.

## **WUI COMPLIANCE**



**SYMBOLS** 

### **CAL GREEN COMPLIANCE**

A) WATER CLOSETS. 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 US EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.

C) MULTIPLE SHOWERHEADS SERVING ONE SHOWER. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWERHEADS 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. NOTE: A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.

**D) RESIDENTIAL LAVATORY FAUCETS.** 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) A4.303.1 KITCHEN FAUCETS.** KITCHEN FAUCETS SHALL HAVE A MAXIMUM FLOW RATE NOT GREATER THAN 1.5 GALLONS PER MINUTE AT 60 PSI. (MAY TEMPORARILY INCREASE TO 2.2 GPM). F) STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. PLUMBING FIXTURES AND FITTINGS REQUIRED IN SECTION 4.303.1 SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE REFERENCED STANDARDS.

**G) IRRIGATION CONTROLLERS.** AUTOMATIC IRRIGATION SYSTEMS CONTROLLERS INSTALLED AT THE TIME OF FINAL INSPECTION SHALL BE WEATHER OR SOIL MOISTURE-BASED.

H) OPERATION AND MAINTENANCE MANUAL. AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY WHICH INCLUDES ALL OF THE FOLLOWING SHALL BE PLACED IN THE BUILDING:

IV) PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA. V) EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-60 PERCENT & WHAT METHODS OCCUPANT MAY USE TO MAINTAIN RELATIVE HUMIDITY LEVEL IN THAT RANGE. VI) INFO ABOUT WATER-CONSERVING IRRIGATION DESIGN & CONTROLLERS WHICH CONSERVE WATER.

VIII) INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC.

IX) INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE. X) COPY OF ALL SPECIAL INSPECTION VERIFICATIONS REQUIRED BY ENFORCING AGENCY OF THIS CODE. )  ${\sf INSTALLER}$   ${\sf TRAINING}$ .  ${\sf HVAC}$   ${\sf INSTALLERS}$   ${\sf TRAINED}$   ${\sf ACCEPTION}$   ${\sf CERTIFIED}$   ${\sf INSTALLER}$   ${\sf INSTALLERS}$   ${\sf INSTALLERS}$   ${\sf INSTALLERS}$ 

L) A4.103.1 SITE SELECTION. SITE WHICH COMPLIES WITH AT LEAST ONE OF THE FOLLOWING CHARACTERISTICS:

(A) THE SITE HAS NOT BEEN PREVIOUSLY DEVELOPED FOR LIBBAN LISES. (B) THE SITE HAS BEEN PREVIOUSLY DEVELOPED FOR QUALIFIED URBAN USES.

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) DEFINES "QUALIFIED URBAN USE" AS "ANY RESIDENTIAL, COMMERCIAL, PUBLIC INSTITUTIONAL, TRANSIT OR TRANSPORTATION PASSENGER FACILITY, OR RETAIL USE, OR ANY COMBINATION OF THOSE USES." M) A4.106.2.3 TOPSOIL PROTECTION. DISPLACED TOPSOIL IS STOCKPILED FOR REUSE IN DESIGNATED AREA AND COVERED OR PROTECTED FROM EROSION.

**O) A4.106.4 WATER PERMEABLE SURFACES.** PERMEABLE PAVING IS UTILIZED FOR NOT LESS THAN 20 PERCENT OF THE TOTAL PARKING, WALKING, OR PATIO SURFACES. EXCEPTION: PRIMARY DRIVEWAY, ENTRY WALKWAY AND PORCH/LANDING OR REQUIRED ACCESSIBLE ROUTES FOR PERSONS WITH DISABILITIES.

SLOPE ZONE **B) SINGLE SHOWERHEAD.** 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 US EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.

I) DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.

II) OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:

(1) EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING DEVICES AND SYSTEMS, HVAC SYSTEMS, WATER-HEATING SYSTEMS AND OTHER MAJOR APPLIANCES AND EQUIPMENT.

(2) ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS.

(3) SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.

(4) LANDSCAPE IRRIGATION SYSTEMS.

III) INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS.

VII) INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION.

**K) DOCUMENTATION.** VERIFICATION OF COMPLIANCE WITH THIS CODE MAY INCLUDE CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY WHICH SHOW SUBSTANTIAL COMPLIANCE.

21061.3: INFILL SITE MEANS A SITE IN AN URBANIZED AREA THAT MEETS EITHER OF THE FOLLOWING CRITERIA:

N) A4.106.3 LANDSCAPE DESIGN. POST CONSTRUCTION LANDSCAPE DESIGNS ACCOMPLISH ONE OR MORE OF THE

1. AREAS DISRUPTED DURING CONSTRUCTION RESTORED TO BE CONSISTENT WITH NATIVE VEGETATION
2. LIMIT TURF AREAS TO NOT MORE THAN 50 PERCENT (TIER 1).
3. UTILIZE AT LEAST 75 PERCENT NATIVE CALIFORNIAN OR DROUGHT TOLERANT PLANT AND
TREE SPECIES APPROPRIATE FOR THE CLIMATE ZONE REGION.
4. HYDROZONING IRRIGATION TECHNIQUES ARE INCORPORATED INTO THE LANDSCAPE DESIGN.

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**P) A4.106.5 COOL ROOF.** ROOFING MATERIALS SHALL HAVE A MINIMUM 3-YEAR AGED SOLAR REFLECTANCE AND THERMAL EMITTANCE OR A MINIMUM SOLAR REFLECTANCE INDEX (SRI) AS SPECIFIED BELOW.

TIER 1 – LOW-RISE RESIDENTIAL CLIMATE MINIMUM 3-YR AGED SOLAR THERMAL EMITTANCE SRI REFLECTANCE

Q) A4.106.8.1 TIER 1. FOR ONE- AND TWO-FAMILY DWELLINGS & TOWNHOUSES WITH ATTACHED PRIVATE GARAGES. INSTALL A DEDICATED 208/240 VOLT BRANCH CIRCUIT, INCLUDING AN OVERCURRENT PROTECTIVE DEVICE RATED AT 40 AMPERES MINIMUM PER DWELLING UNIT.

R) A4.303.3 APPLIANCES. DISHWASHERS & CLOTHES WASHERS IN RESIDENTIAL BUILDINGS SHALL COMPLY WITH THE FOLLOWING: INSTALL AT LEAST ONE QUALIFIED ENERGY STAR APPLIANCE WITH MAXIMUM WATER USE AS FOLLOWS:

1. STANDARD DISHWASHERS – 4.25 GALLONS PER CYCLE.

2. COMPACT DISHWASHERS – 3.5 GALLONS PER CYCLE

3. CLOTHES WASHERS – WATER FACTOR OF 6 GALLONS PER CUBIC FEET OF DRUM CAPACITY.

S) A4.304.1 WATER BUDGET. A WATER BUDGET SHALL BE DEVELOPED FOR LANDSCAPE IRRIGATION PER SANTA ROSA CITY CODE CHAPTER 14-30. REDUCE THE USE OF POTABLE WATER TO A QUANTITY THAT DOES NOT EXCEED 0.55 OF ETO TIMES THE LANDSCAPE AREA. (SUPPORT DOCUMENTATION REQUIRED AT APPLICATION SUBMITTAL.) NOTE: SEE SANTA ROSA WATER EFFICIENT LANDSCAPE ORDINANCE

T) A4.403.2 REDUCTION IN CEMENT USE. CEMENT USE IN FOUNDATION MIX REDUCED BY NOT LESS THAN 20 PERCENT. U) A4.405.3.1 RECYCLED CONTENT. USE MATERIALS, EQUIVALENT IN PERFORMANCE TO VIRGIN MATERIALS, WITH TOTAL COMBINED RECYCLED CONTENT VALUE, FOR NOT LESS THAN 10% OF TOTAL MATERIAL COST OF PROJECT V) 4.406.1 RODENT PROOFING. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS, OTHER OPENINGS IN PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS W/ CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR METHOD ACCEPTABLE TO ENFORCING AGENCY. W) A4.407.3 FLASHING DETAILS. PROVIDE FLASHING DETAILS ON THE BUILDING PLANS AND COMPLY WITH ACCEPTED INDUSTRY STANDARDS OR MANUFACTURERS INSTRUCTIONS. X) A4.407.4 MATERIAL PROTECTION. PROTECT BUILDING MATERIALS DELIVERED TO THE CONSTRUCTION SITE FROM RAIN AND OTHER SOURCES OF MOISTURE.

Y) A4.408.1 ENHANCED CONSTRUCTION WASTE REDUCTION. AT LEAST 65% OF NONHAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS GENERATED AT THE SITE IS DIVERTED TO RECYCLE OR SALVAGE. **Z) A4.408.1.1 DOCUMENTATION.** DOCUMENTATION SHALL BE PROVIDED TO THE ENFORCING AGENCY WHICH DEMONSTRATES COMPLIANCE WITH THIS SECTION. DOCUMENTATION SHALL BE COMPLIANCE WITH SECTION 4.408.5. BB) 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE SITE AND UNTIL FINAL STARTUP OF THE HVAC EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEETMETAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM. CC) 4.504.2 FINISH MATERIAL POLLUTANT CONTROL. FINISH MATERIALS SHALL COMPLY WITH THIS SECTION:

**4.504.2.1 ADHESIVES, SEALANTS AND CAULKS.** SHALL BE COMPLIANT WITH VOC AND OTHER TOXIC COMPOUND LIMITS IN CALGREEN TABLE 4.504.1 OR 4.504.2 AS APPLICABLE. 4.504.2.2 PAINTS, STAINS AND OTHER COATINGS. COMPLIANT W/ VOC LIMITS IN CALGREEN TABLE 4.504.3 **A4.504.2 RESILIENT FLOORING SYSTEMS.** AT LEAST 90% OF THE RESILIENT FLOORING SYSTEMS INSTALLED IN THE BUILDING SHALL COMPLY WITH THE VOC- EMISSION LIMITS DEFINED IN AT LEAST ONE OF THE 4 LISTED CRITERIA IN SECTION A4.504.2

**4.504.3 CARPET SYSTEMS. CARPET AND CARPET SYSTEMS.** SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE LISTED ITEMS, 1 – 4 IN SECTION 4.504.3. 4.504.3.1 CARPET CUSHION SHALL MEET REQ'S OF CARPET & RUG INSTITUTE'S GREEN LABEL PROGRAM. 4.504.3.2 ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1. NOTE: DOCUMENTATION MUST BE PROVIDED THAT VERIFIES THAT FINISH MATERIALS ARE CERTIFIED TO MEET THE POLLUTANT EMISSION LIMITS IN THIS SECTION.

**EE) 4.504.5 COMPOSITE WOOD PRODUCTS.** HARDWOOD PLYWOOD, PARTICLEBOARD & MEDIUM DENSITY FIBERBOARD (MDF) PRODUCTS USE ON THE INTERIOR OR EXTERIOR SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN THE ARB'S AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS SHOWN ITABLE 4.504.5.

4.504.5.1 DOCUMENTATION. VERIFICATION OF COMPLIANCE WITH THIS SECTION SHALL BE PROVIDED AS REQUESTED BY THE ENFORCING AGENCY.

**GG) A4.506.1 FILTERS.** RETURN AIR FILTERS WITH A VALUE GREATER THAN MERV 6 SHALL BE INSTALLED ON HVAC SYSTEMS. PRESSURE DROP ACROSS THE FILTER SHALL NOT EXCEED 0.1 INCHES WATER COLUMN. HH) 4.507.2. HEATING AND AIR-CONDITIONING SYSTEM DESIGN. HEATING AND AIR- CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS: (SUPPORT DOCUMENTATION REQUIRED AT APPLICATION SUBMITTAL.) ESTABLISH HEAT LOSS AND HEAT GAIN VALUES ACCORDING TO ANSI/ACCA MANUAL J-2011, ASHRAE HANDBOOKS OR OTHER EQUIVALENT METHODS.

2. SIZE DUCT SYSTEMS ACCORDING TO ANSI/ACCA 1 MANUAL D — 2014, ASHRAE HANDBOOKS OR EQUIVALENT.

3. SELECT HEATING & COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S — 2014 OR EQUIVALENT.

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227 FOREST AVENUE, SUITE 5

GENERAL CONTRACTOR | ARBORIST/LANDSCAPE

DATE

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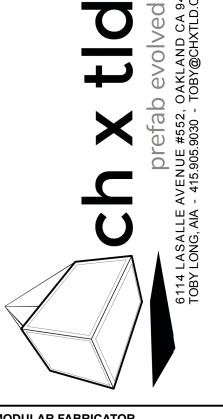
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**ARCHITECT** 



**MODULAR FABRICATOR** 

APPROVAL STAMP

THE RULAND RESIDENCE 243 FERNDALE WAY EMERALD HILLS, CA APN: 057-022-070 / 080

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scale

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CAL-GREEN BUILDING CODE COMPLIANCE

ARCHITECTURAL			LANDSCAPE			DDO IECT DATA		
X X - - - X X	A-0.0 A-0.1 A-0.2 A-0.3 A-0.3a A-0.4 A-0.4a A-0.5 A-0.6	COVER & MATERIALS PROJECT INFO CONDITIONS OF APPROVAL GENERAL NOTES GENERAL NOTES CALGREEN TITLE-24 MASSING DIAGRAMS MODULAR DIAGRAMS	X X X	L1 L2 L3 L4	LANDSCAPE PLAN LANDSCAPE IMAGERY LIGHTING IMAGERY NOTES & DETAILS		IS (FAR) 27.43 SQFT 37.13 SQFT	
- X X - X X X X X X	A-0.9 A-0.9a 1 OF 1 A-1.2 A-2.0 A-2.1 A-2.2 A-2.3 A-2.4 A-2.5 A-2.6 A-2.7 A-2.8 A-2.9	RENDERINGS RENDERINGS SURVEY SITE PLAN FOUNDATION PLAN LEVEL 1 PLAN LEVEL 2 PLAN LEVEL 3 PLAN ROOF PLAN ADU PLAN LEVEL 1 RCP LEVEL 2 RCP LEVEL 3 RCP ADU RCP				THIRD FLOOR 1,60  HABITABLE 4,00  COVERED ENTRY 1/0  GARAGE 50  MECH/STORAGE	69.02 SQFT 63.58 SQFT 44.44 SQFT 47.62 SQFT 79.88 SQFT -52 SQFT 428 SQFT	
X X - - - - - -	A-3.0 A-4.0 A-4.1 A-5.1 A-5.2 A-5.3 A-5.4 A-6.0 A-6.4 A-6.5 A-7.0	BUILDING SECTIONS EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS BUILDING ASSEMBLY DETAILS ENTRY DETAIL CONSTRUCTION DETAILS DOOR SCHEDULE WINDOW SCHEDULE				APN#: ZONING: CONSTRUCTION TYPE: SITE DIMENSIONS: SITE AREA: MAX LOT COVERAGE: PROPOSED LOT COVERAGE MAX FLOOR AREA (FAR): PROPOSED FLOOR AREA:	057-022-070 / 057-022-080 R1 / RH / DR (bayside district application TYPE V-B SEE SURVEY 16,613 sqft / ±0.38 acres 25% OF SITE AREA = 4,153.25 sqft 21.96% = 3,648 sqft (compliant) 30% OF SITE AREA = 4,983.90 sqft 29.11% = 4,835.52 sqft (compliant)	
	CIVIL		-			PARKING: HEIGHT RESTRICTION:	2 GARAGE SPACES 28'-0"	
Х	C1	TITLE SHEET				I ILIOITI NEOTRIOTION.	20 0	

FRONT SETBACK:

SIDE SETBACKS:

REAR SETBACK:

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF: A \*FIRE SPRINKLERED NEW SINGLE FAMILY HOME & ATTACHED GARAGE. \*PHOTOVOLTAICS TO BE INSTALLED ON-SITE & SUBMITTED UNDER SEPARATE PERMI PROJECT DESCRIPTION These plans comply with the following current adopted editions of the California Residential and Building Code Series: 2019 CA BUILDING CODE 2019 CA MECHANCAL CODE 2019 CA RESIDENTIAL CODE 2019 CA ENERGY CODE 2019 CA PLUMBING CODE 2019 CA GREEN CODE 2019 CA ELECTRICAL CODE "Pursuant to Section 19981 (c) of the Health and Safety Code, no factory-built housing shall be in any way modified during installation unless approval for such modification is first obtained from the local enforcement agency" CODE REFERENCE —Elev. No. ELEVATION/ FLOOR / CEILING WINDOW REVISION FLR # W-## SCHEDULE ASSEMBLY SECTION REFERENCE \_\_Sheet No. REFERENCE REFERENCE REFERENCE

**ELEVATION** ALIGN FINISH REFERENCE (D-##) SCHEDULE **♦** SURFACES Detail No. REFERENCE \_Plan No. **ASSEMBLY** A6 REFERENCE

REFERENCE

FOUNDATION ENGINEERING TRIAD/HOLMES ASSOCIATES CONSULTANTS 873 N. MAIN STREET, SUITE 150 3984 WASHINGTON BLVD., #236 BISHOP, CA 93514 FREMONT, CA 94538 CONTACT: MATT PETRONI CONTACT: LIIBAN AFF T. 760.873.4273 T. 510.371.5019 F. 760.873.8024

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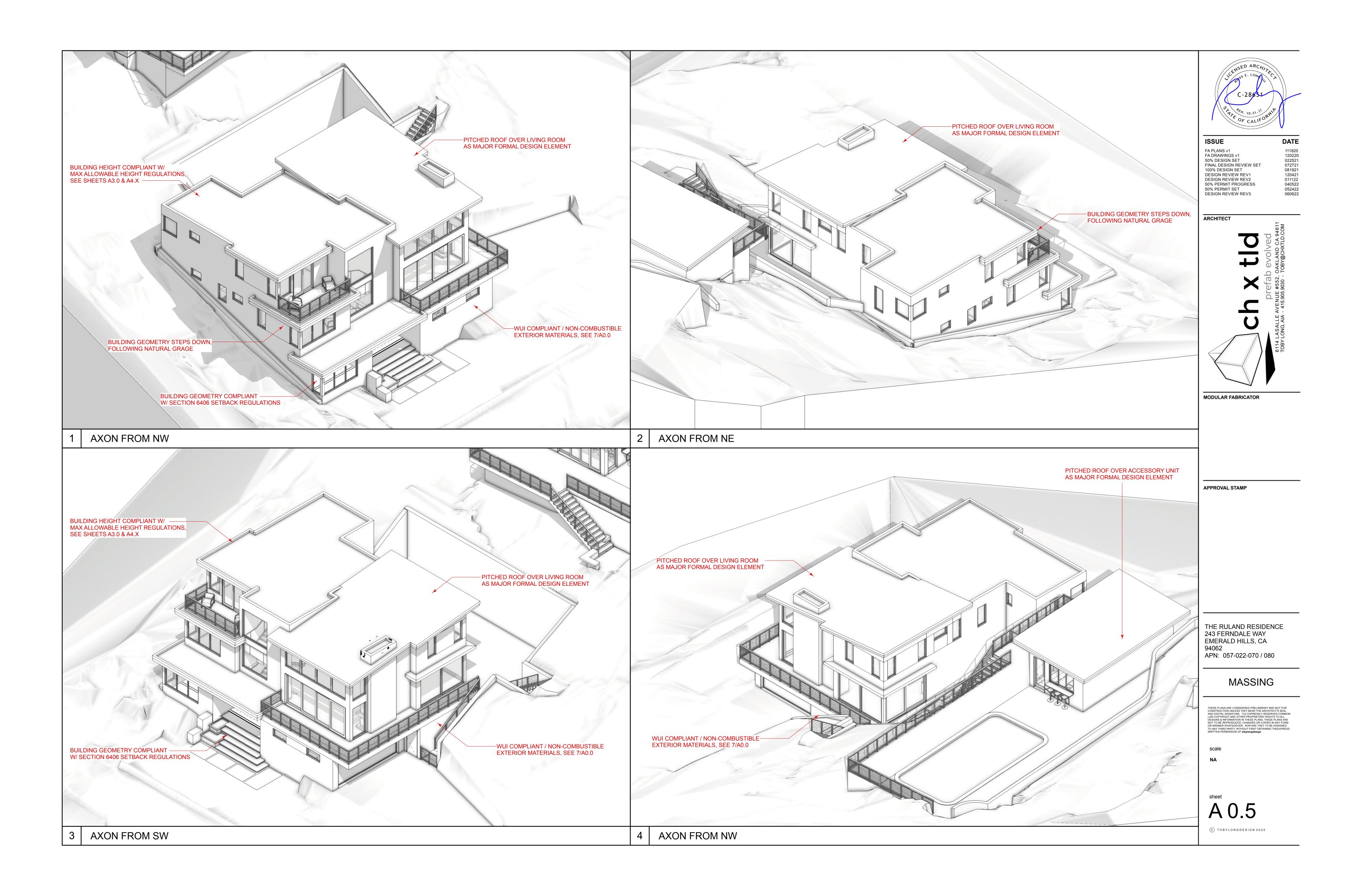
**GEOLOGIST** 

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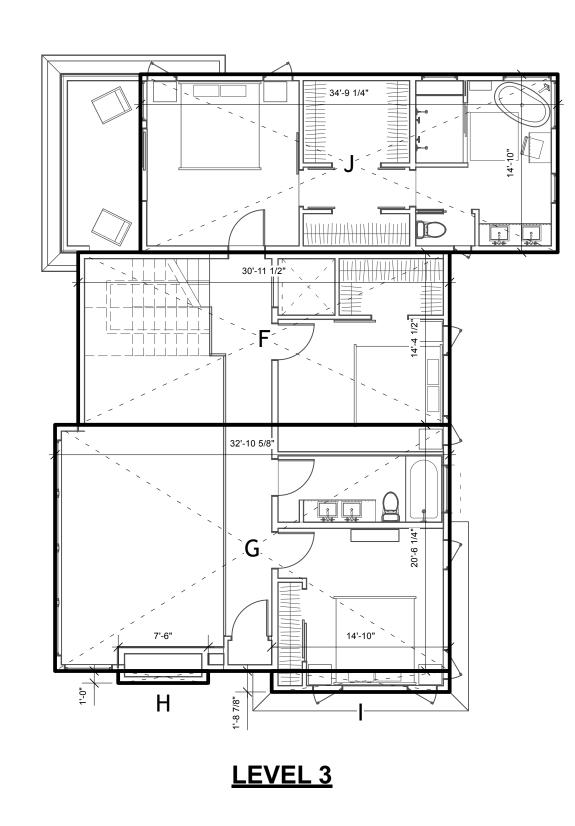
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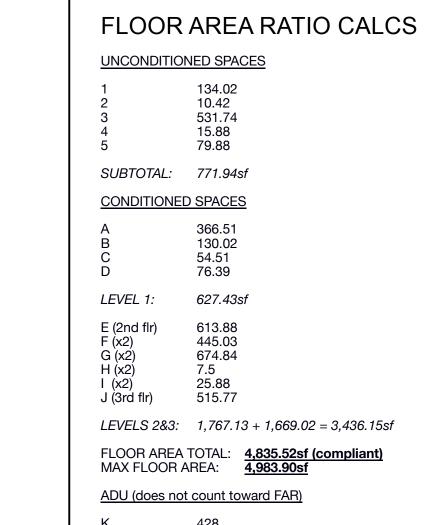
CONSULTANTS, Inc.

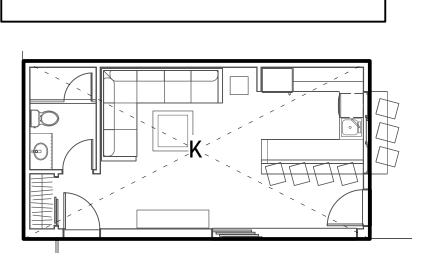
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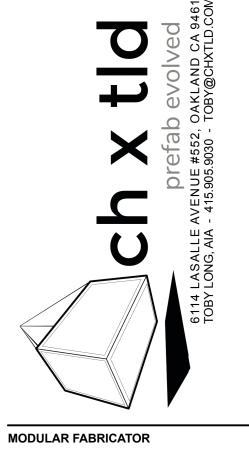




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243 FERNDALE WAY EMERALD HILLS, CA

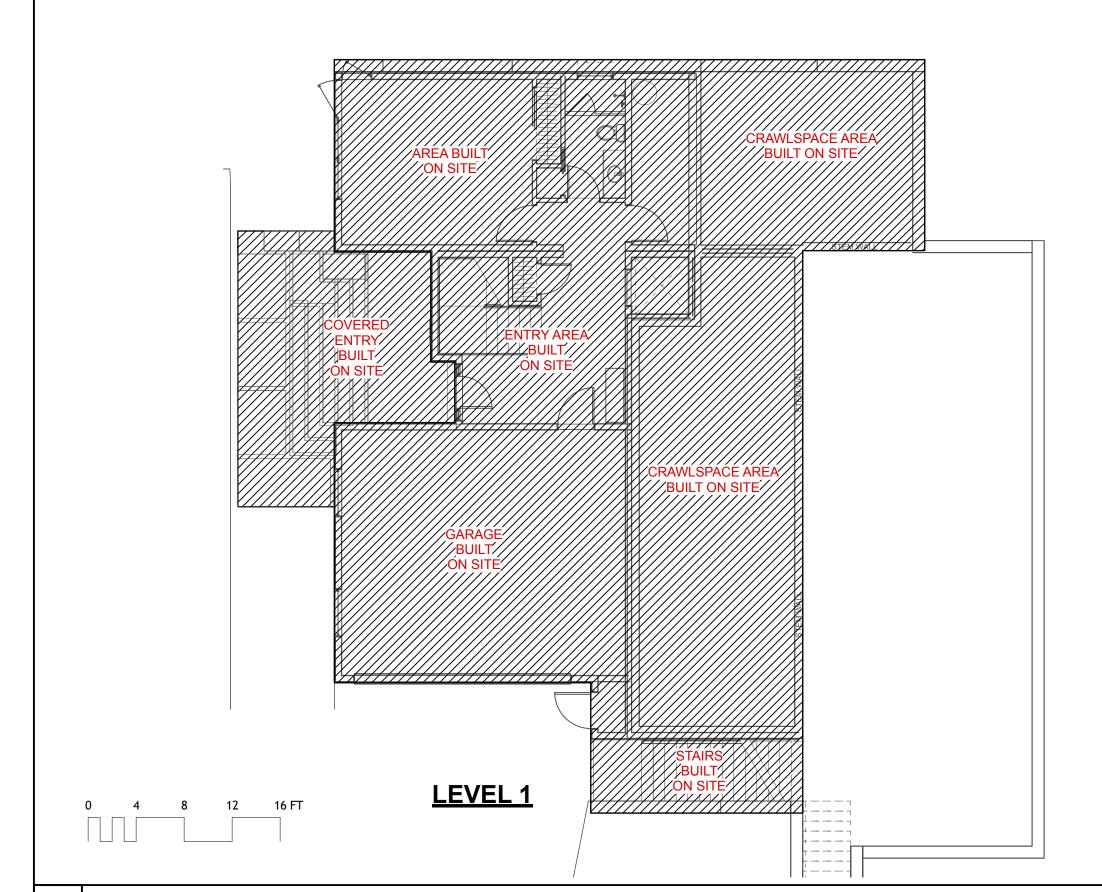
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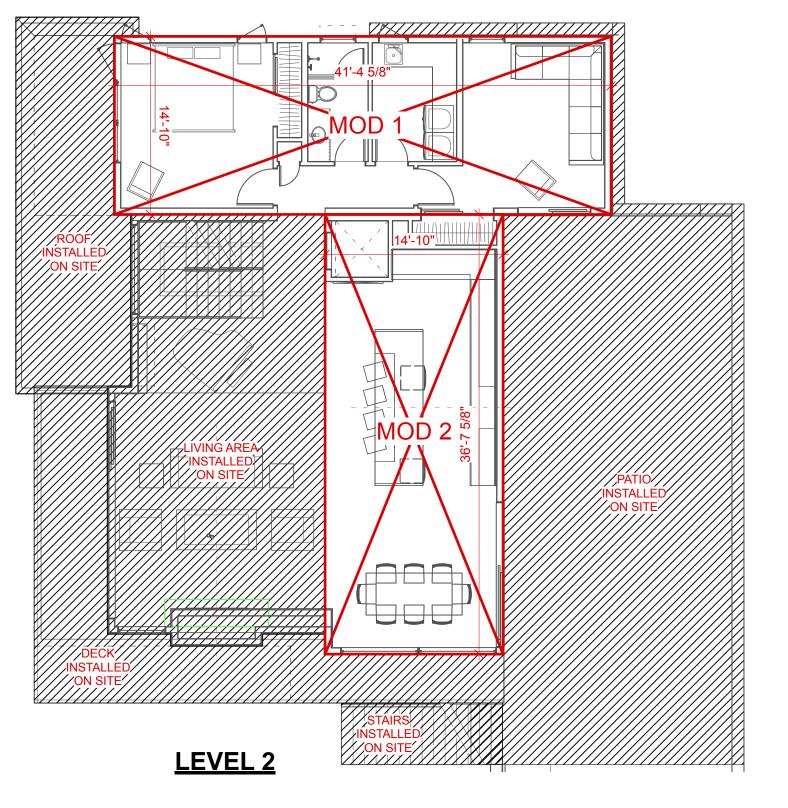
**MOD DIAGRAMS** 

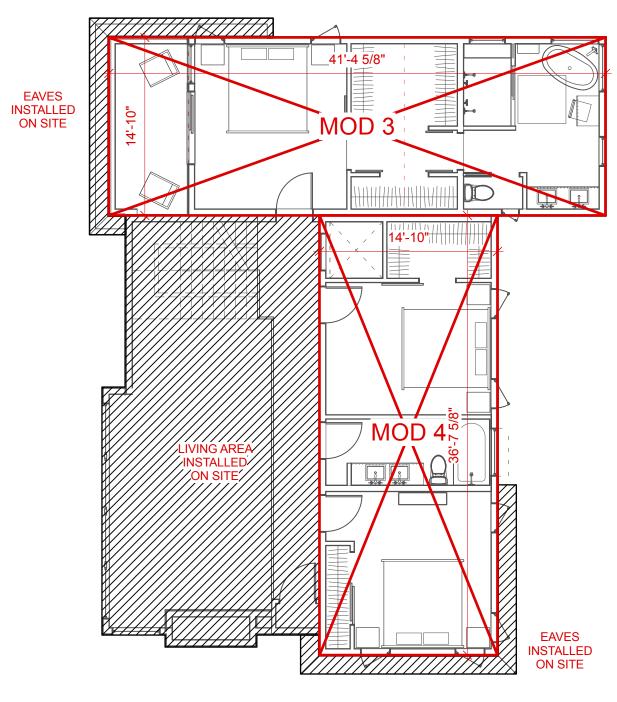
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FAR: FLOOR AREA RATIO CALCULATION DIAGRAMS





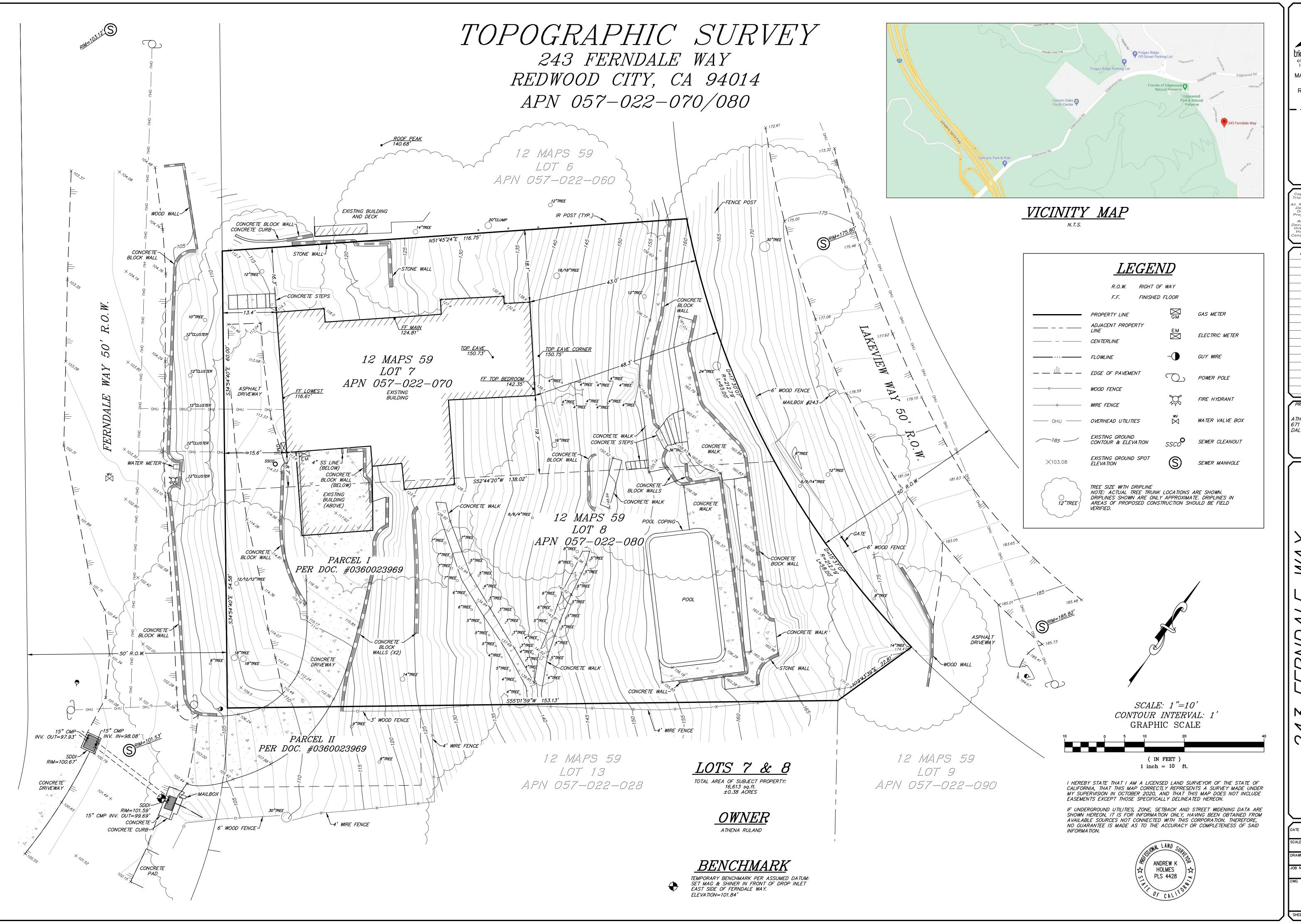


LEVEL 3

1/8"=1'-0"

A 0.6 © TOBYLONG DESIGN 2022

SITE SCOPE / MODULAR DIAGRAMS

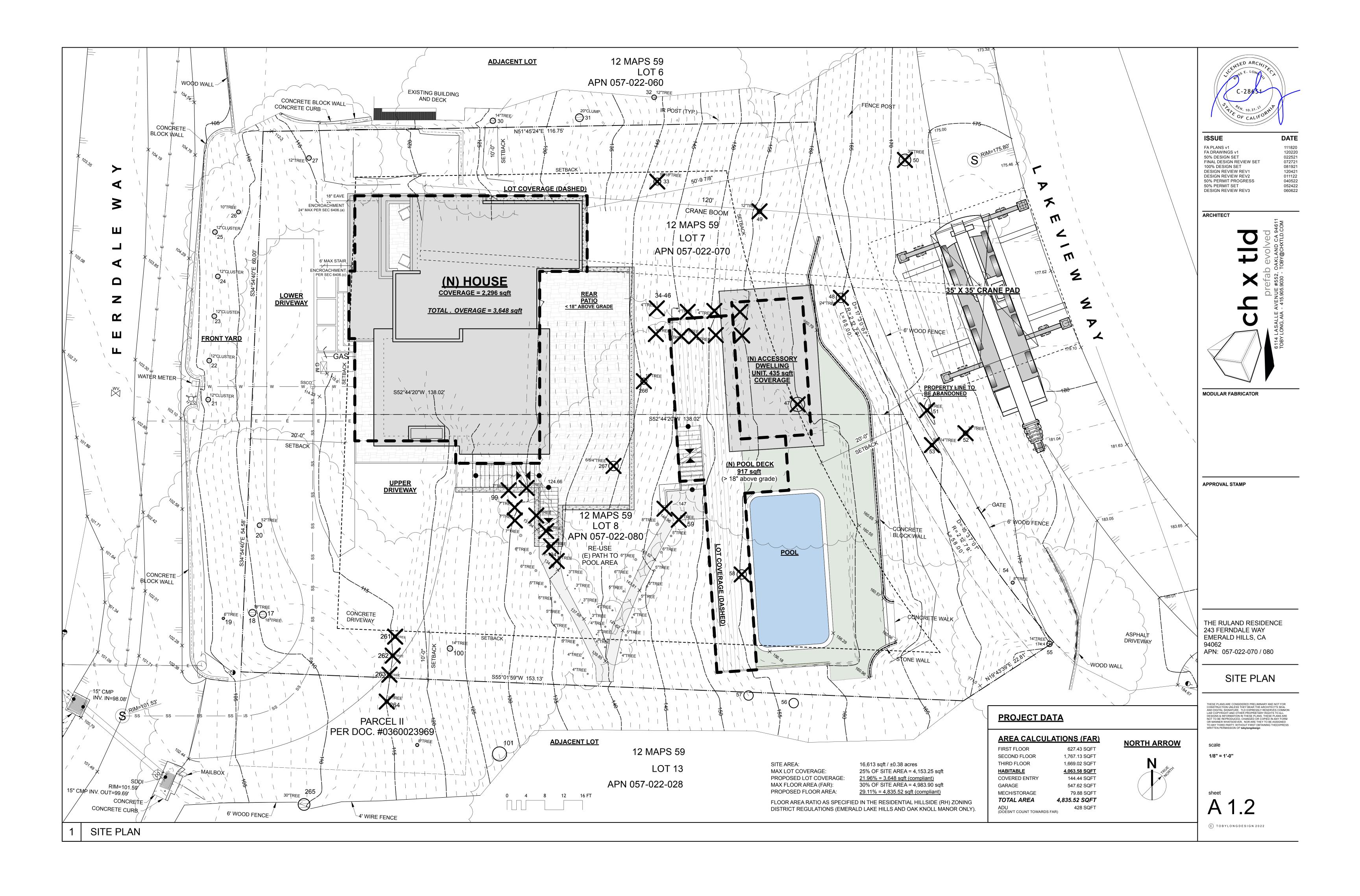


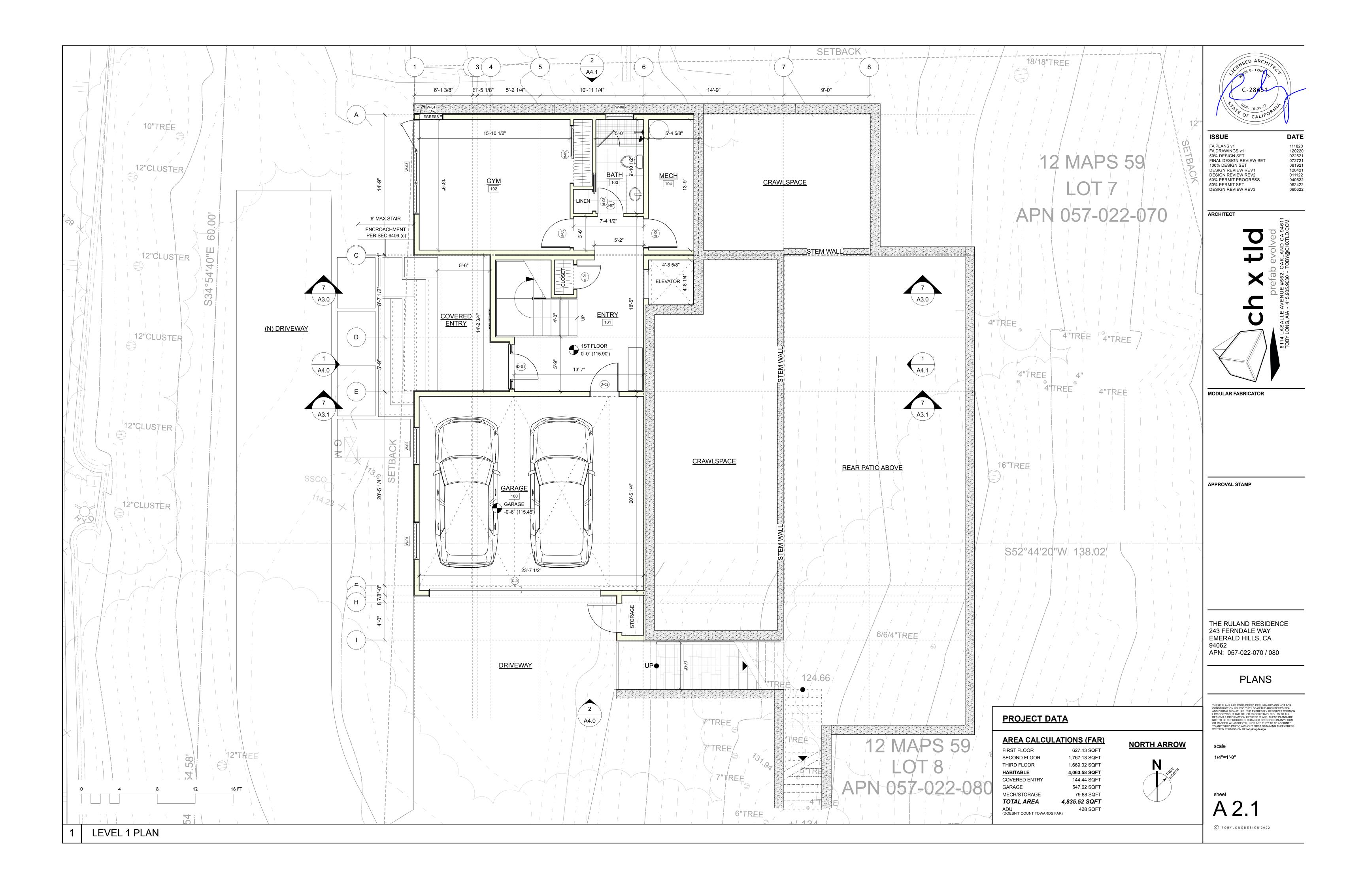
BISHOP REDWOOD CITY

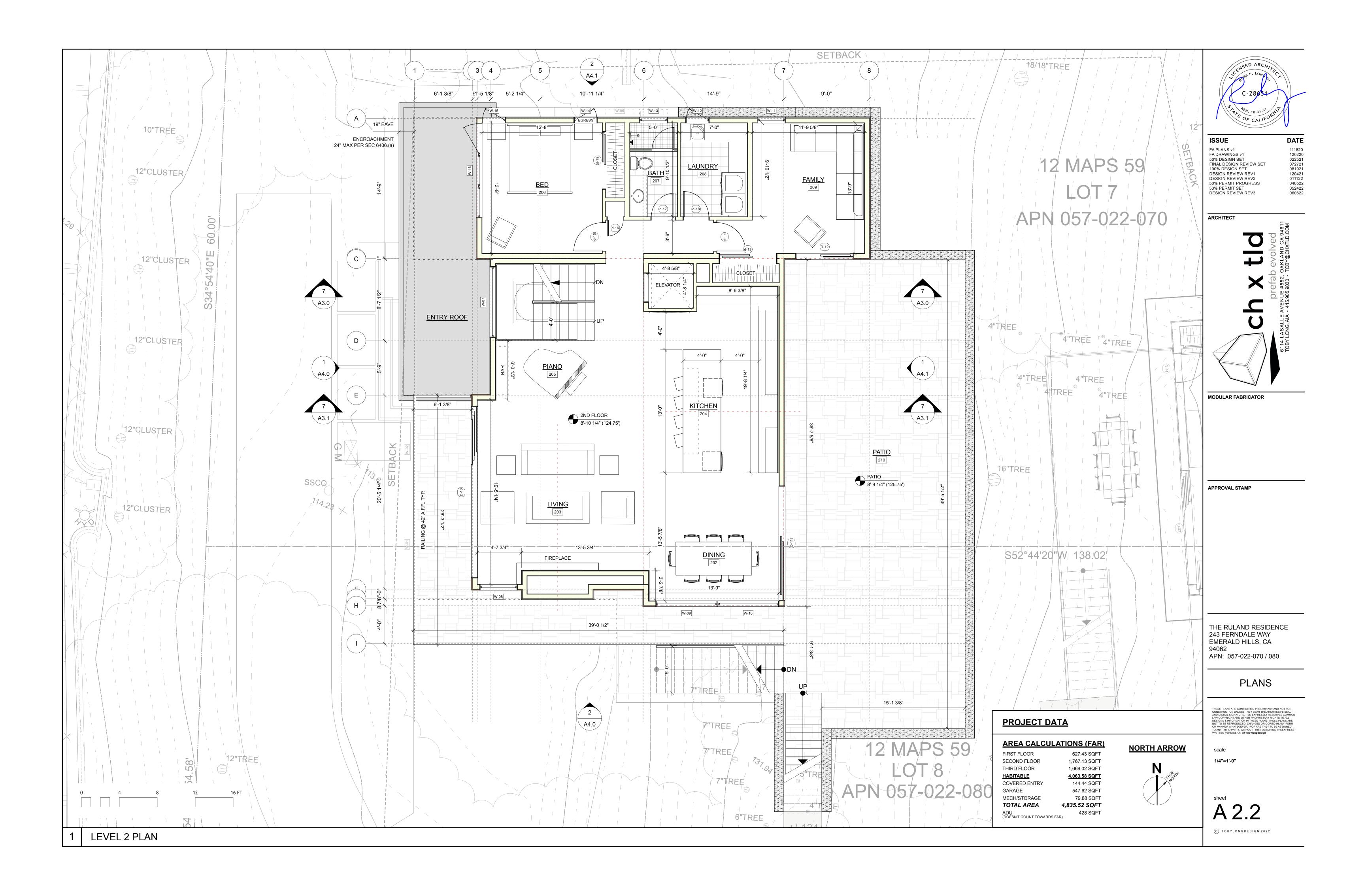
ATHENA RULAND 671 HANOVER ST. DALY CITY, CA 94014

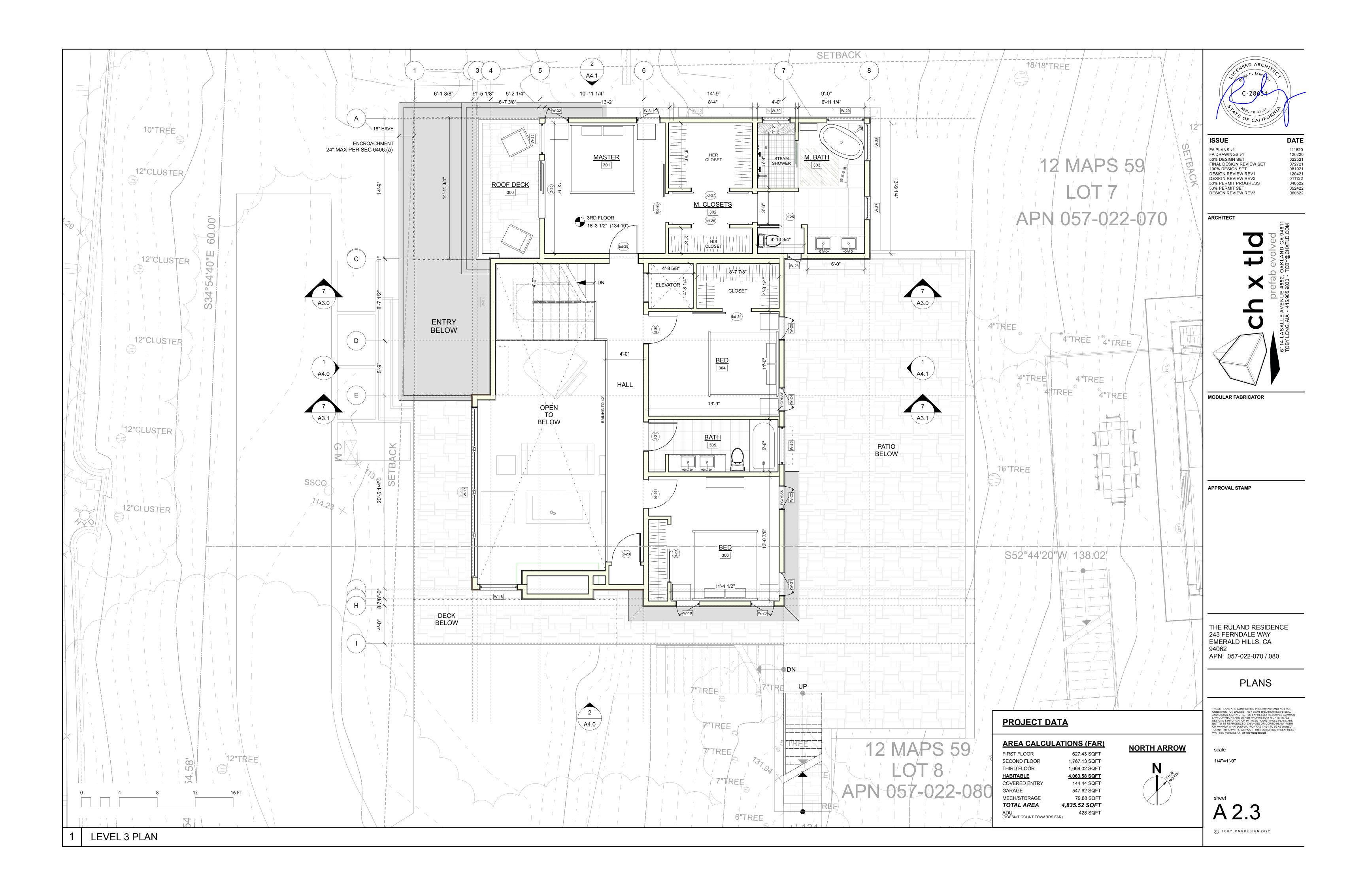
SOUNDAR!

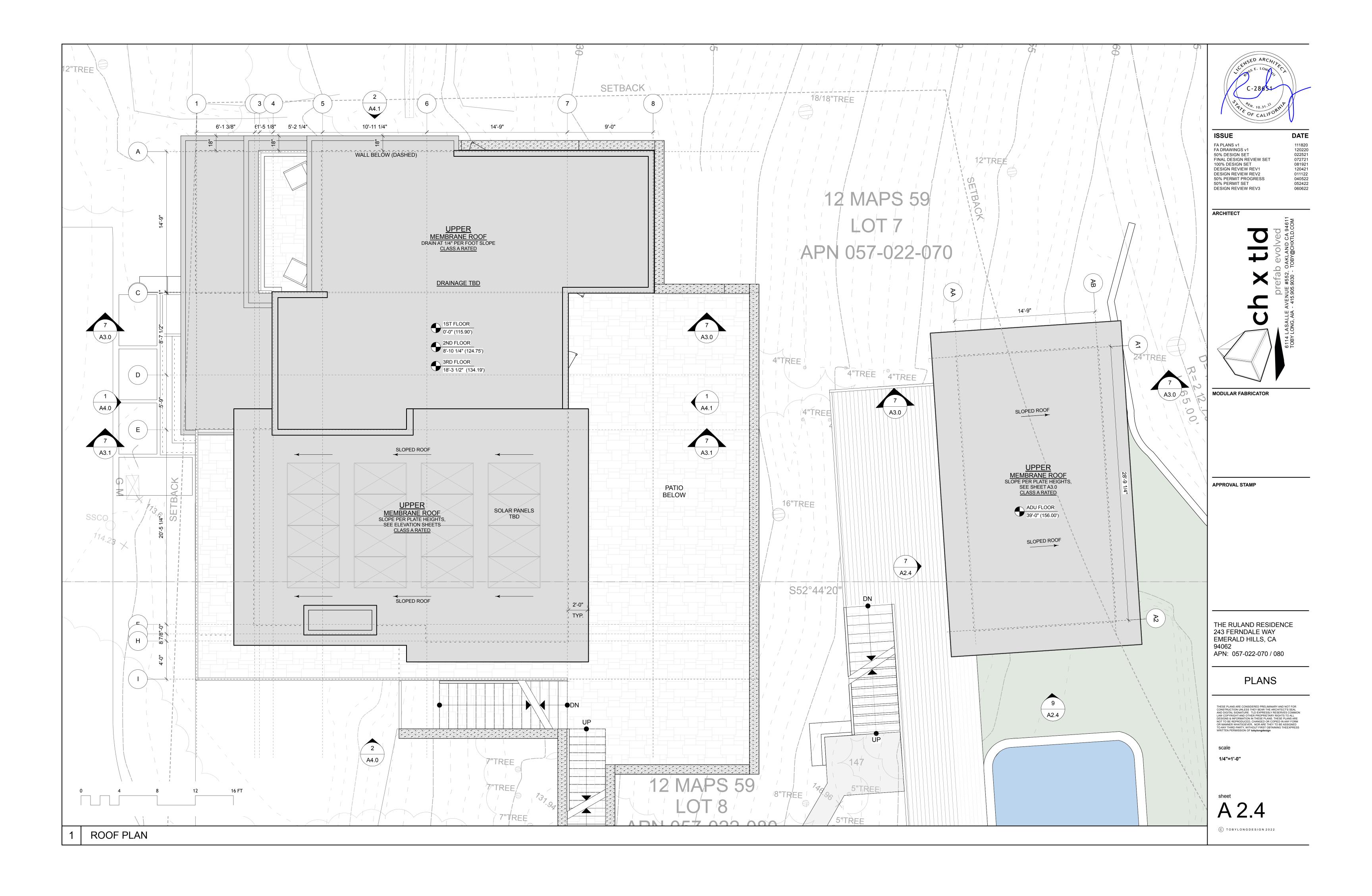
1"=10' TJP 09.2082

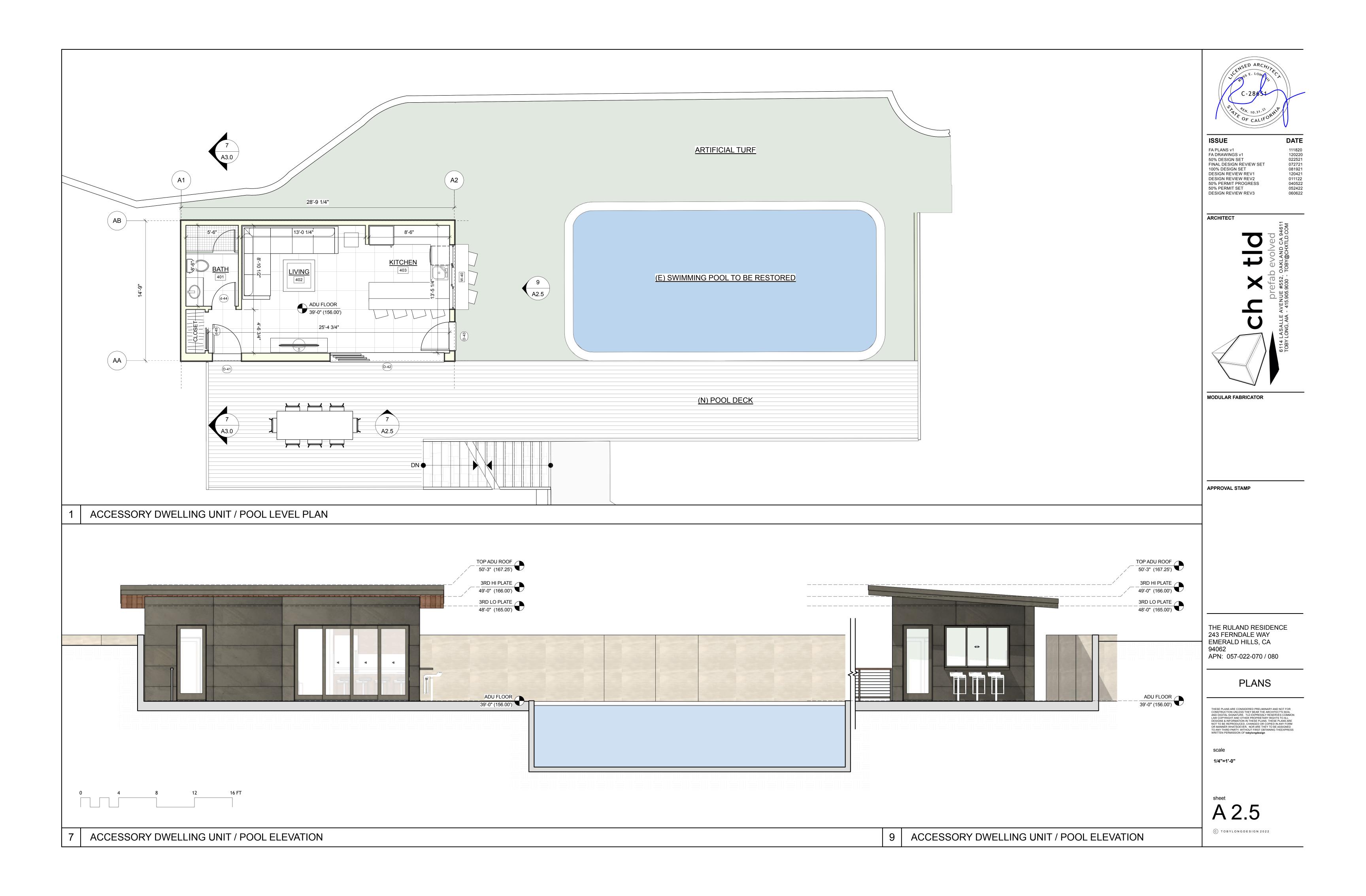


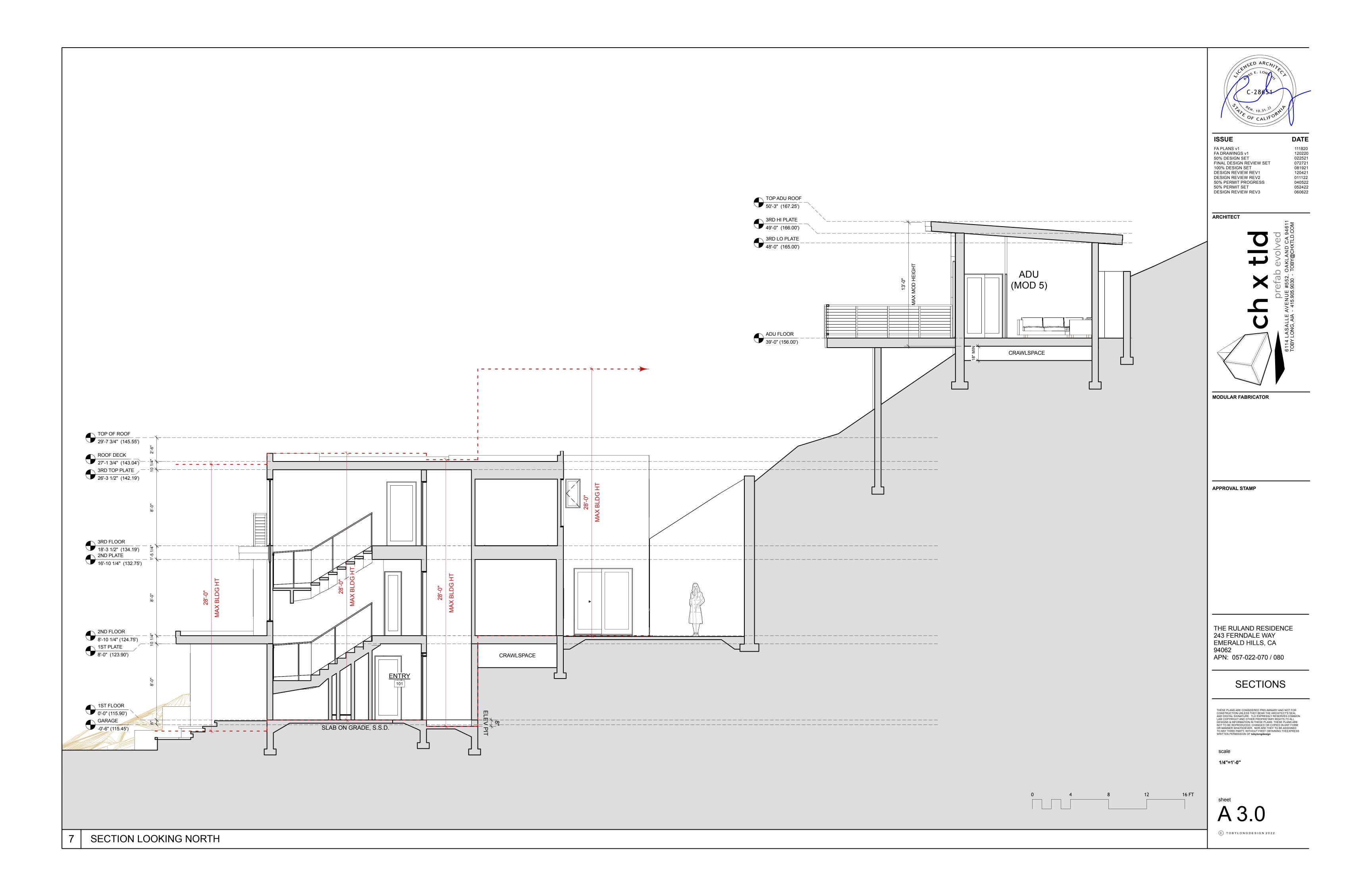










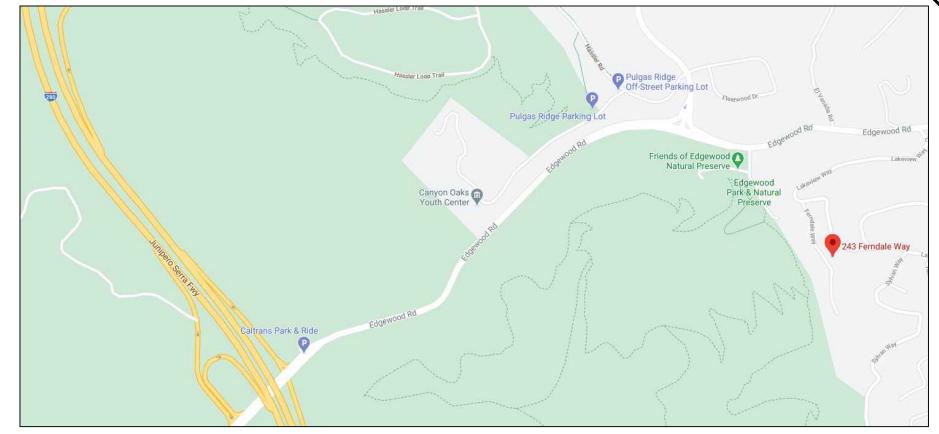






# GRADING & DRAINAGE PLAN

THE RULAND RESIDENCE 243 FERNDALE WAY EMERALD HILLS, CA 94014



# VICINITY MAP

# SHEET INDEX

SHEET C1 - TITLE SHEET SHEET C2 - GRADING & DRAINAGE PLAN

SHEET C3 - DRIVEWAY PLAN & PROFILE SHEET C4 - EROSION CONTROL PLAN

SHEET C5 - TREE PROTECTION PLAN SHEET C6 - IMPERVIOUS SURFACE MAP

> PROPERTY LOCATION 243 FERNDALE WAY EMERALD HILLS, CA 94062

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RECORD OWNER

RAPHAEL & ATHENA RULAND 671 HANOVER STREET DALY CITY, CA 94014

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TRIAD/HOLMES ASSOCIATES 777 WOODSIDE RD #2A REDWOOD CITY, CA 94061 *650–366–0216* CONTACT: ANDY HOLMES

### <u>ARCHITECT</u>

ch x tld 6114 LA SALLE AVE #552 OAKLAND, CA 94611 415-905-9030 CONTACT: TOBY LONG

### SITE BENCHMARK

TEMPORARY BENCHMARK: PER ASSUMED DATUM: SET MAG & SHINER IN FRONT OF DROP INLET EAST SIDE OF FERNDALE WAY. ELEVATION=101.84'

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TOTAL SITE GRADING: CUT + FILL 960 CY CUT + 35 CY FILL = 995 CY < 1,000 CY OK!

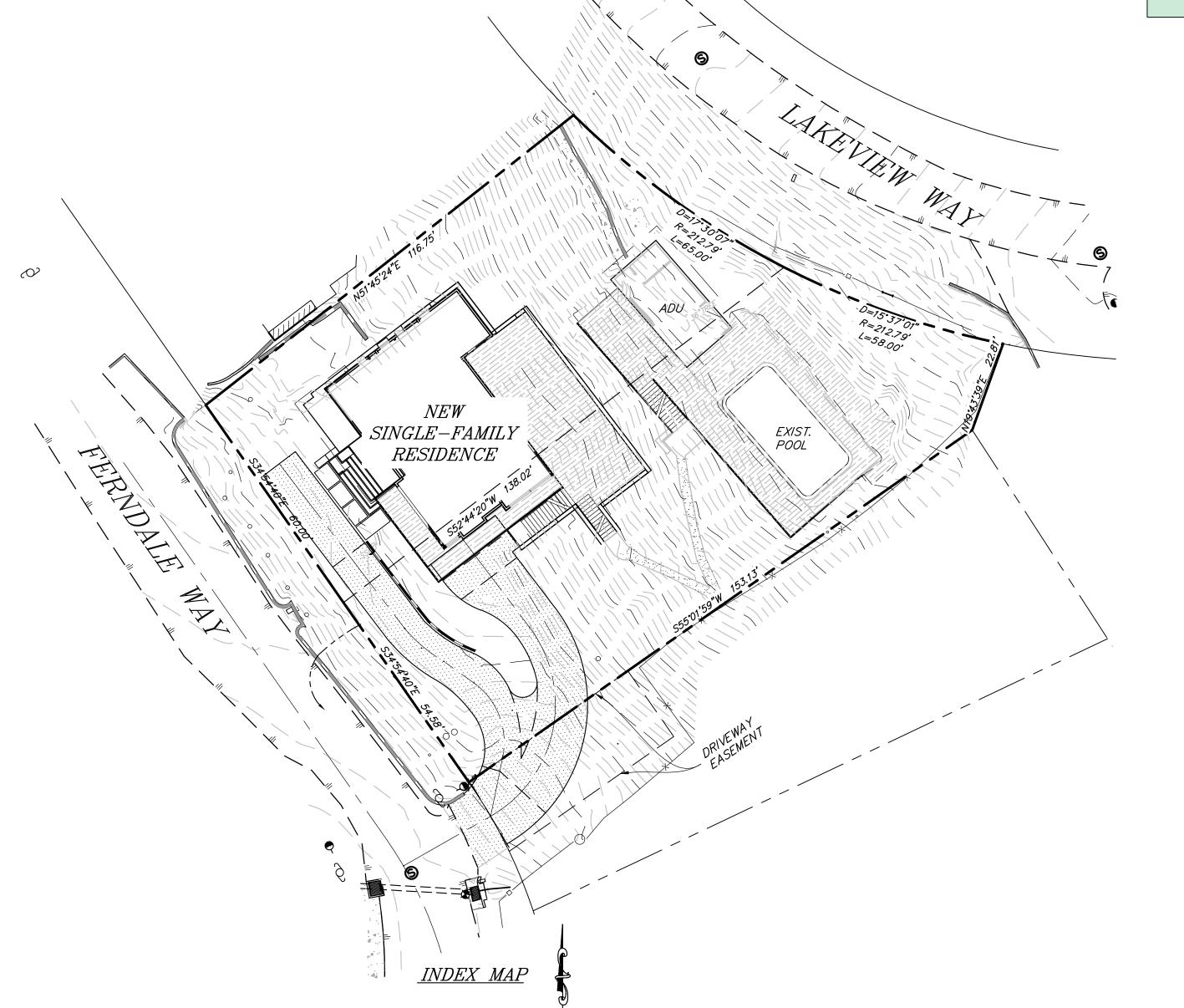
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- 9. ALL EXISTING STRUCTURES WILL BE REMOVED PRIOR TO ANY IMPROVEMENTS.

IF UNDERGROUND UTILITIES ARE SHOWN HEREON, IT IS FOR INFORMATION ONLY AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. FIELD VERIFY LOCATIONS PRIOR TO CONSTRUCTION.



**ABBREVIATIONS** 

AGGREGATE BASE ASPHALT CONCRETE BOTTOM OF STAIR CENTERLINE CONC CONCRETE CORRUGATED METAL PIPE EXISTING GRADE EDGE OF PAVEMENT EX, EXIST EXISTING FINISHED GRADE FLOW LINE FS FINISHED SURFACE NOT TO SCALE PROPERTY LINE SEWER MANHOLE SANITARY SEWER TOP OF CURB TOP OF FOOTING TOP OF GRATE TOP OF STAIR TOP OF WALL WATER VALVE

<u>LEGEND</u>

PROPERTY LINE ---- CENTERLINE ADJACENT PROPERTY LINE OR RIGHT OF WAY \_\_ Ш \_\_ EDGE OF PAVEMENT TREE TYPE & SIZE P=PINE/F=FIR/S=SNAG EXISTING GROUND 1005 CONTOUR & ELEV. -----OHU------ OVERHEAD UTILITIES FIRE HYDRANT SEWER MANHOLE ——*SS*—— EXISTING SEWERLINE TEMPORARY BENCHMARK

NET = 925 CY EXPORT

PROPOSED GROUND

CONTOUR & ELEV.

SHEE

F

|

7

triad/holmes assoc civil engineering land surveying

MAMMOTH LAKES BISHOP REDWOOD CITY

PREPARED & SUBMITTED BY:

REVISIONS:

P SUBMIT 7/29/21 | MBF

EV DR SUB. 12/1/21 MBF

PEV ENG. SUB. 1/11/22 MBP

APHAEL & ATHENA RULAN 671 HANOVER STREET DALE CITY, CA 94014

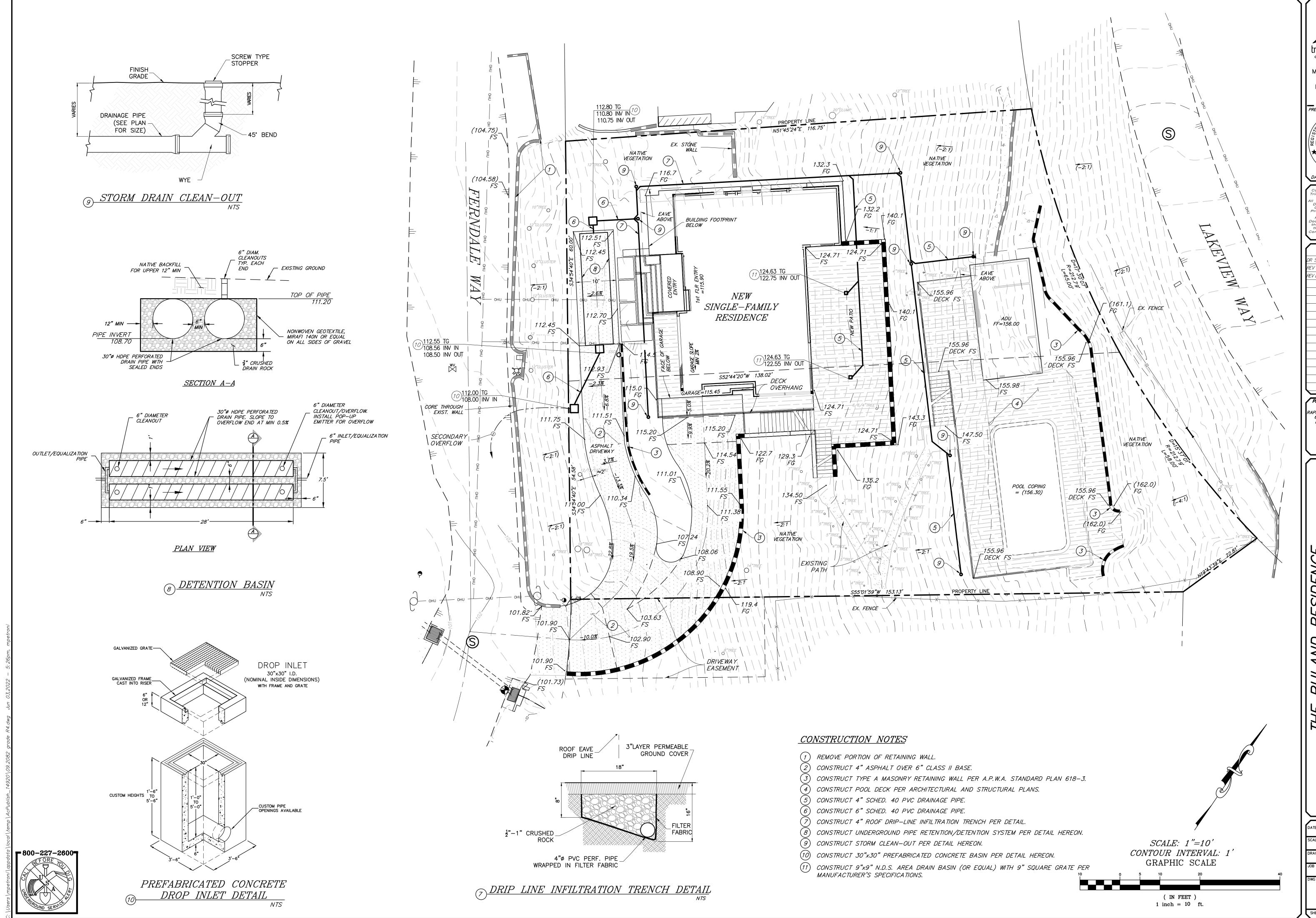
PH: 650-678-9372

DATE 1/11/2022

AS SHOWN MBP

09.2082.1

SHEET 1 OF —



PREPARED & SUBMITTED BY: C 69473 2 ENP 6/30/22

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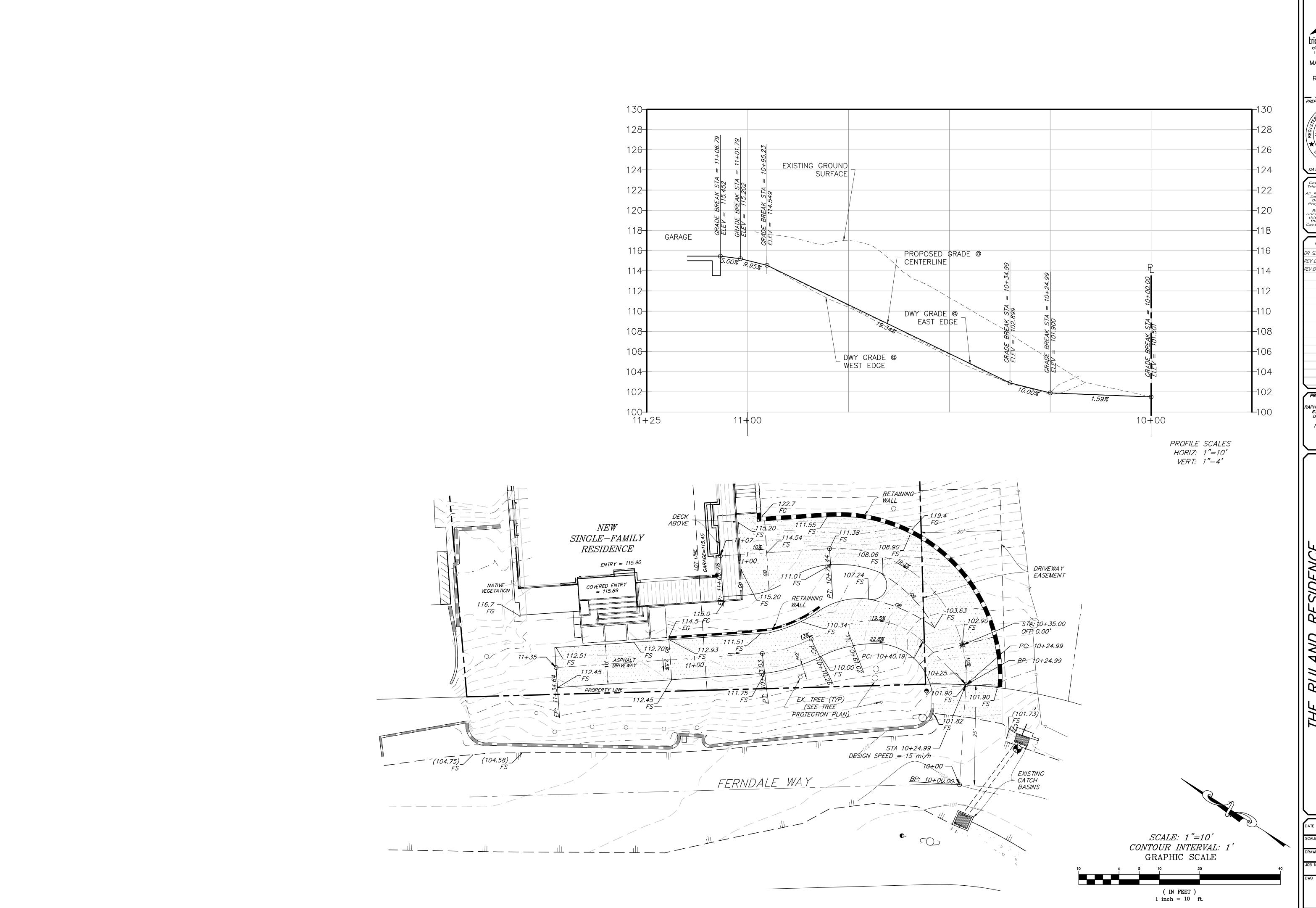
RAPHAEL & ATHENA RULAND 671 HANOVER STREET DALE CITY, CA 94014 PH: 650-678-9372

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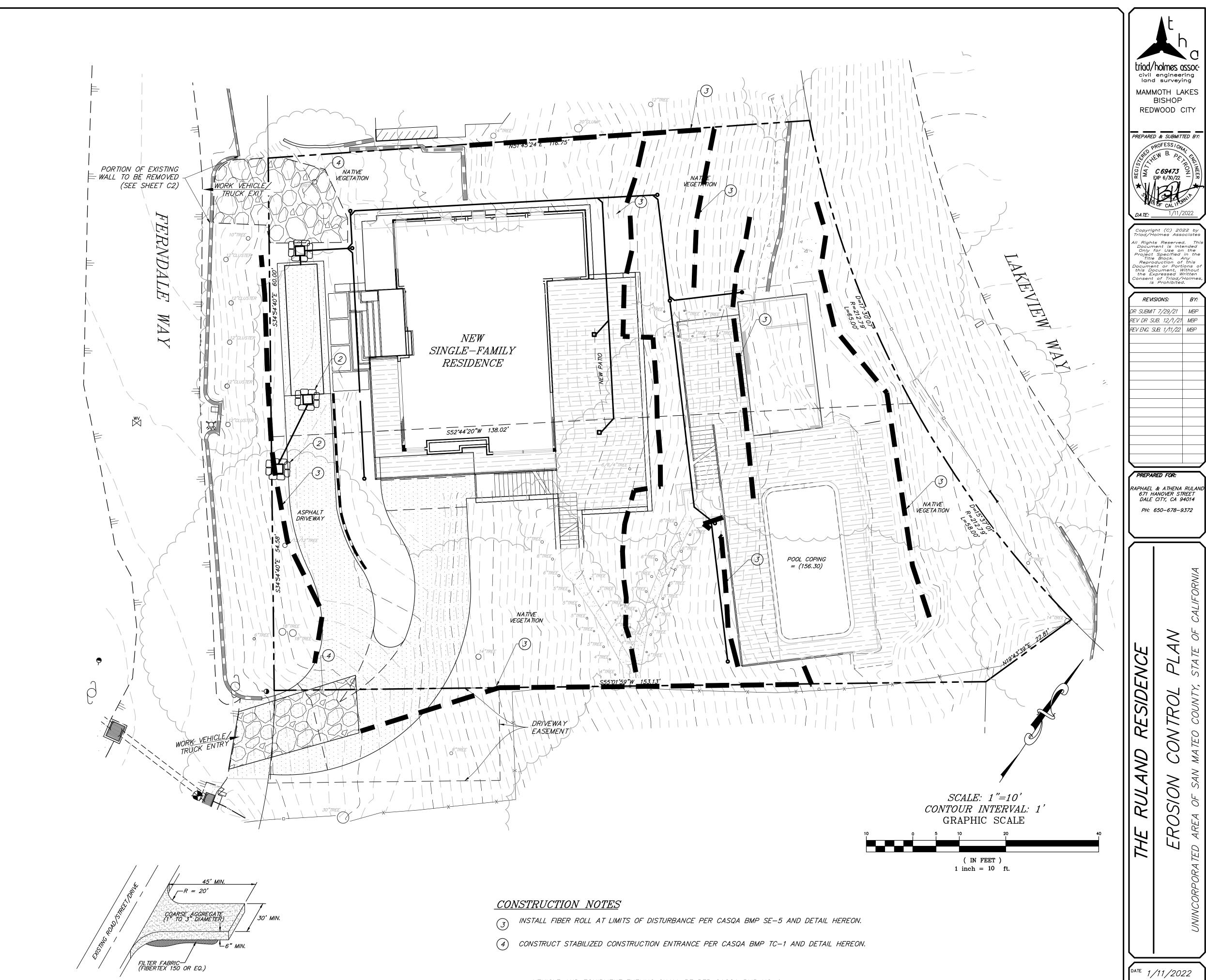
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DATE 1/11/2022 AS SHOWN

MBP 09.2082.1



• VEHICLE AND EQUIPMENT FUELING SHALL BE PER CASQA BMP NS-9.

• MATERIAL DELIVERY AND STORAGE SHALL BE PER CASQA BMP WM−1.

• NO VEHICLE AND EQUIPMENT CLEANING OR MAINTENANCE SHALL BE DONE ONSITE.

• SOLID WASTE SHALL BE DISPOSED OF PER CASQA BMP WM-5.

AS SHOWN

09.2082.1

MBP



SANDBAGS, 2 BAGS HIGH

DROP INLET

BMP SE-10

SEDIMENT ROLL STRAW WATTLE —

CONTOUR
KEY TRENCH
2" MIN. TO
4" MAX.

WOOD STAKE 1"x2"x23" 3' MAX SPACING

4 STABILIZED CONSTRUCTION ENTRANCE INTERIM EROSION CONTROL DETAIL
N. T. S.

BMP SE-5

3 FIBER ROLL DETAIL
N. T. S.

2 STORM DRAIN INLET PROTECTION

GENERAL TREE PROTECTION AND PRESERVATION GUIDELINES The objective of the tree protection and preservation guidelines is to provide the necessary information to ensure the continued health of existing trees within the proximity of construction dripline of existing trees to remain. and grading activities. Trees selected for preservation should be structurally sound and healthy so that they may survive any adverse impacts due to construction activity. Tree removal recommendations are based on conflicts with the proposed site improvements, noted supervised by the project arborist. deformities and potential failures related to such, and trees that present a hazard.

1.0 Tree Documentation
1.1 Indicate removal or preservation of all existing trees on an appropriately sized plan. Trees shall be identified and numbered as tagged on site. Accurate dripline locations for each tree to remain should be shown on all relevant plans (as shown on the Tree Inventory Plan). See attached.

2.0 Tree Protection2.1 The majority of the sensitive root structure of a tree is located within the top 6 to 12 inches of soil. This leaves them vulnerable to soil compaction, often due to construction activity, which limits available oxygen leading to stress and potential demise. This upper region of a tree is known as the critical root zone.

2.2 In an effort to protect the critical root zone, Tree Protective Fencing shall be erected. This temporary fencing will designate the Tree Protection Zone (TPZ). The fencing is a critical component to the preservation of existing trees. 2.3 Tree Protective Fencing should ideally be placed at the dripline of the tree to be protected, or beyond. However, the proximity of existing trees to the likely location of the entry drive and the proposed footprint of the residence, will compromise this objective. The following Tree Protective Fence criteria shall be

2.3.1 All protective fencing shall be approved by the project arborist. The fencing is to remain in place until the end of construction activity.

2.3.2 We recommend the fence be aligned with any proposed building/retaining

wall at the minimum distance which allows for the necessary excavation for wall installation (see Item 5.0). 2.3.3 Protective fencing shall be continuous orange polymer material ('snow fencing') mounted to steel posts driven firmly into ground (not mounted into concrete bases and set at grade). The spacing of the posts shall not

exceed 6 feet in distance. 2.3.4 Protective fencing shall be clearly indicated with a laminated sign reading 'DO NOT ENTER'. The sign shall also indicate that the project arborist is the only designated individual who may open, move or modify the location

2.3.5 No excavated fill, chemicals, debris or equipment or any other materials shall be dumped or stored within the TPZ. 2.3.6 Fencing should be orange polymer, secured by metal posts driven a minimum of 24" into the ground.

2.3.7 A minimum 6" layer of mulch shall be applied to all areas within the Tree Protection Zone for trees that fall within 20 feet of site disturbances. The mulch will help alleviate soil compaction and moderate temperatures. 2.3.8 The use of hydrated lime or quick lime shall not be permitted within the vicinity of any existing trees.

3.0 Grading
3.1 The project arborist shall be on-site for all disturbances of grades within the 3.2 The existing grade shall be maintained within the Tree Protection Zone. Any

changes in grade (cut or fill) shall be minimized and if undertaken shall be 3.3 Root pruning shall be determined on an individual basis for each tree. 3.4 Supplemental water must be readily available during excavation activities. The project arborist will determine if this is necessary due to construction impacts. Occasional spraying of the foliage with water to wash off dust will also be required. (See Item 6.1.4).

4.0 Pruning
4.1 Trees to be pruned for clearance shall be done prior to construction activities to avoid 4.2 All pruning shall be supervised by the project arborist and done in accordance to ISA procedures by certified tree workers or under the supervision of the project arborist.

5.0 Retaining Walls and Architectural Foundations5.1 Soil retention under the dripline of existing trees shall be sensitively designed to minimize root disturbance.

5.2 We recommend a pier and grade beam foundations to achieve minimal disturbance to the critical root zone. If a pier supported foundation wall is utilized, specify a flexible design to accommodate adjustments in pier locations to avoid potential conflicts with roots as they are encountered in the field. We understand an ideal retaining wall system has associated costs. The costs of such a wall should be germane to the budget of overall site improvements.

6.0 Construction Access & Staging
6.1 Given the relatively heavily wooded site, and topography, staging for construction should be limited to the lower and upper driveways. The pool deck area may also be utilized for staging for site improvements amongst the upper hillside. As noted within the tree table, the crane staging area along the southern shoulder of Lakeview Way should be located to minimize impacts on existing trees. The Project Arborist should be consulted to minimize potential impacts that might be placed on existing trees. Some which may require clearance pruning to accommodate the boom of the crane

7.0 Project Coordination7.1 Prior to the commencement of construction activities, the general contractor shall meet with the project arborist to review Tree Protection Measures as they related to the County of San Mateo's Tree Protection Ordinance and the procedures mentioned 7.2 During grading operations occurring within the Tree Protection Zone, the project arborist shall make bi-weekly inspections of the site during the length of construction

and the installation of the module architectural components.

to monitor trees and ensure tree Protection Measures are in place.

Conclusion and Continuing Maintenance

We believe that if the proper Tree Protection Measures and guidelines are addressed, the trees on the subject property shall continue to thrive or remain stable. As noted, mitigation measures shall ensue if any trees are significantly impacted. Regardless, site improvements will impact the existing trees. To what extent, time will tell. Often signs of decline show months and even years later. Vigilant monitoring is the most effective course of action to ensure continued health and failure prevention.

TREES THAT MERIT SPECIAL ATTENTION

Tree #17, a 20" Valley oak

Located 5' from proposed upper driveway. Typical base preparation for the proposed concrete driveway would place an adverse impact on the root system of the oak.

Recommendations:

If feasible, adjust the location of the driveway to provide additional clearance from the oak.

Retain Project Arborist to execute an exploratory root search to determine location of existing intermingled. roots prior to site disturbances. If roots are discovered, the following is recommended:

A specific detail for the road profile at this location may be developed though correspondence between the engineer and Project Arborist reflecting the following criteria: פון 3"-4" excavation (max.) shall occur within the vicinity of the oak. Tensar BX1200 Biaxial Geogrid shall be specified to lie on the existing grade. हों 6"-8" angular rock (with no fines) shall be applied on top of the base rock. A porous concrete shall be specified the length of the proposed 'island'. Thickness Recommendations: shall be specified by engineer.

ূল Edging material shall be a poured-in-place curb with no footing.

Tree #18, a 19" Valley oak

Located 7' from proposed driveway. Typical base preparation for an asphalt or concrete driveway would place an adverse impact on the root system of the oak.

Recommendations:

See arborist comments for Tree #17. Given the proximity to tree #17, it likely their root mass is

Tree #20, a 13", 10", 12.5" Coast live oak

The revised Site Plan has been realigned to provide additional clearance of approximately 2 feet (the driveway was previously located at the base of the oak). Typical base preparation for an asphalt or concrete driveway may place an adverse impact on the root system of the oak.

See arborist comments for Tree #17.

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civil engineering land surveying

MAMMOTH LAKES

BISHOP

REDWOOD CITY

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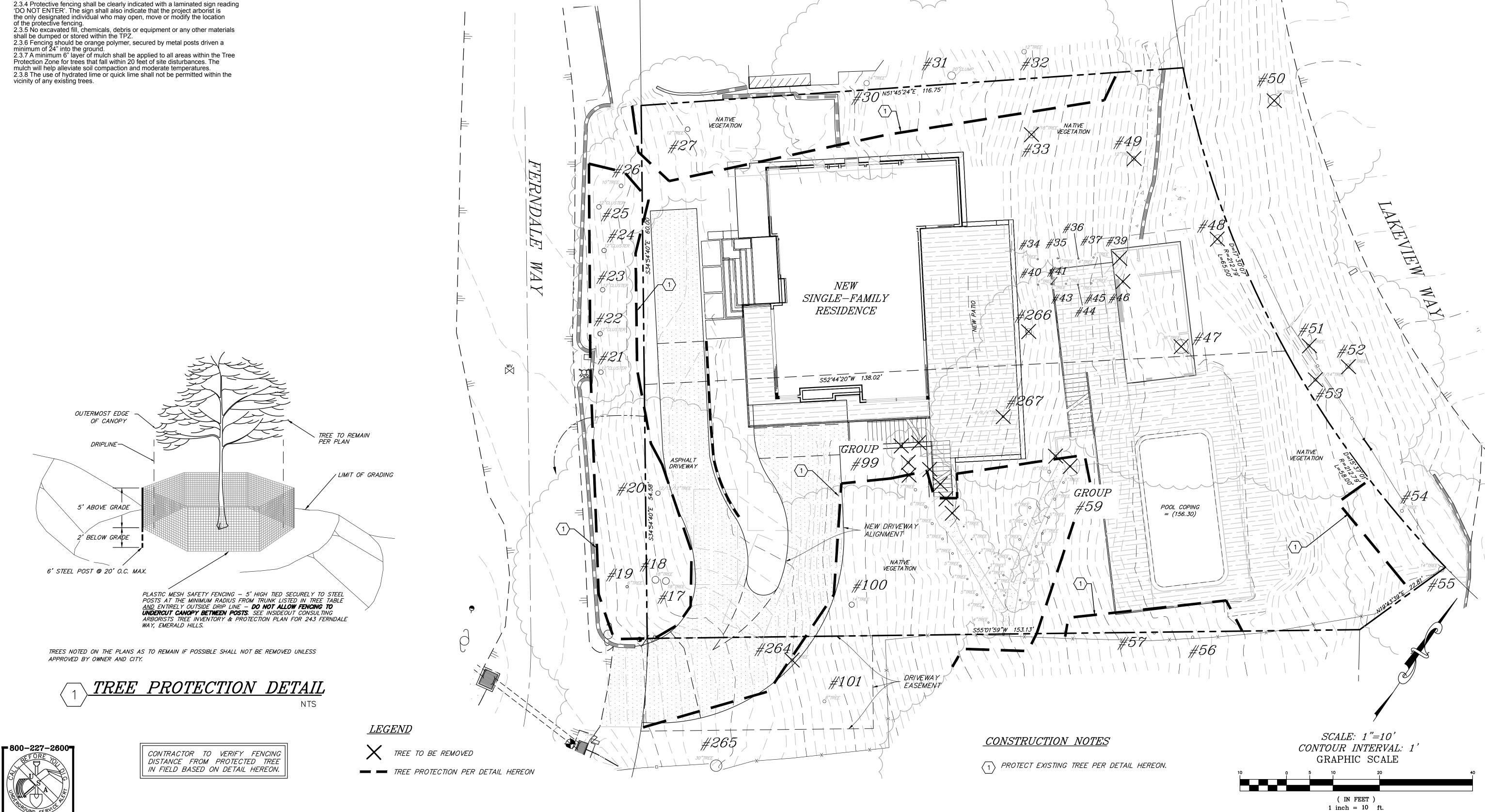
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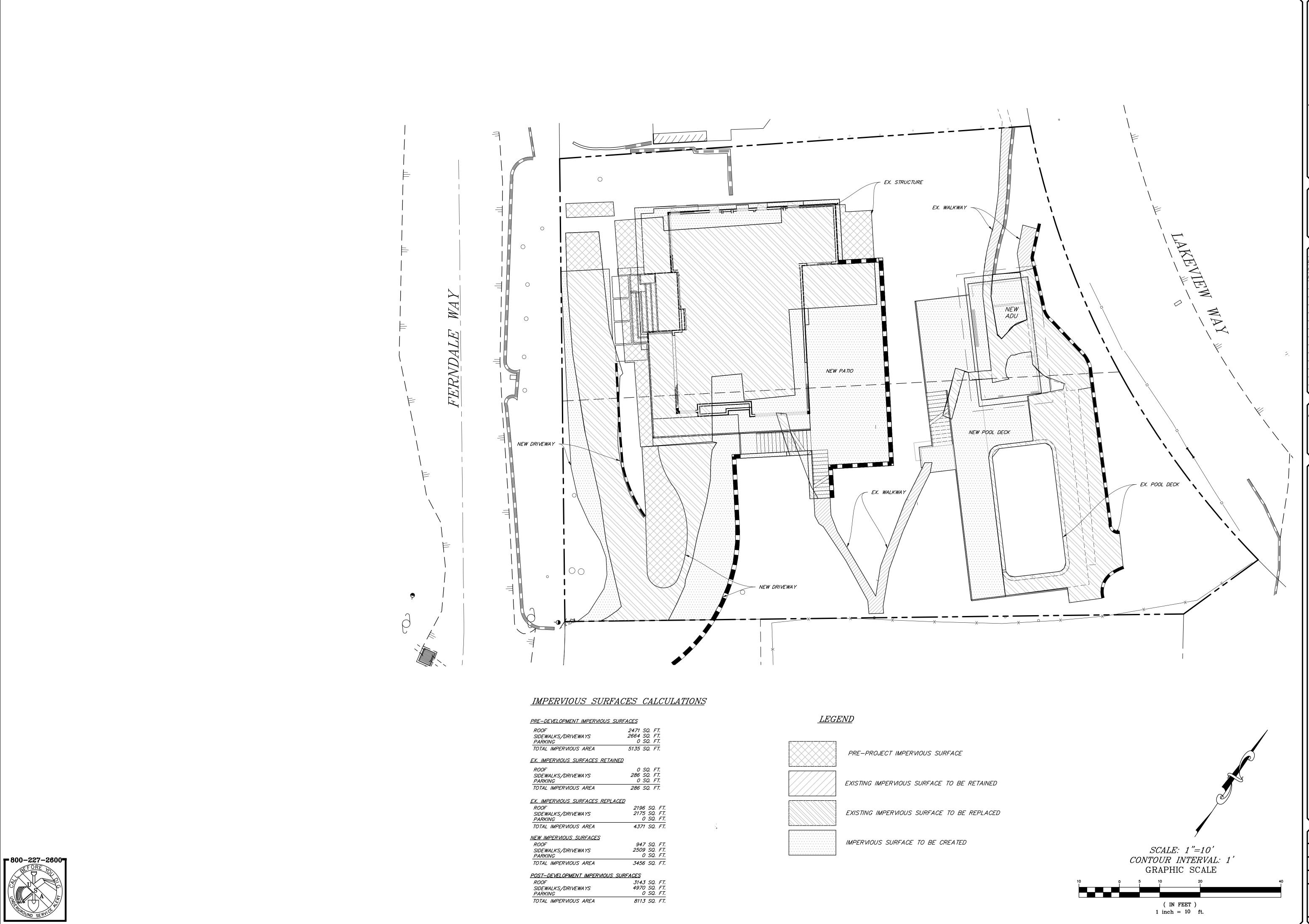
PREPARED FOR: RAPHAEL & ATHENA RULANI 671 HANOVER STREET

DALE CITY, CA 94014 PH: 650-678-9372

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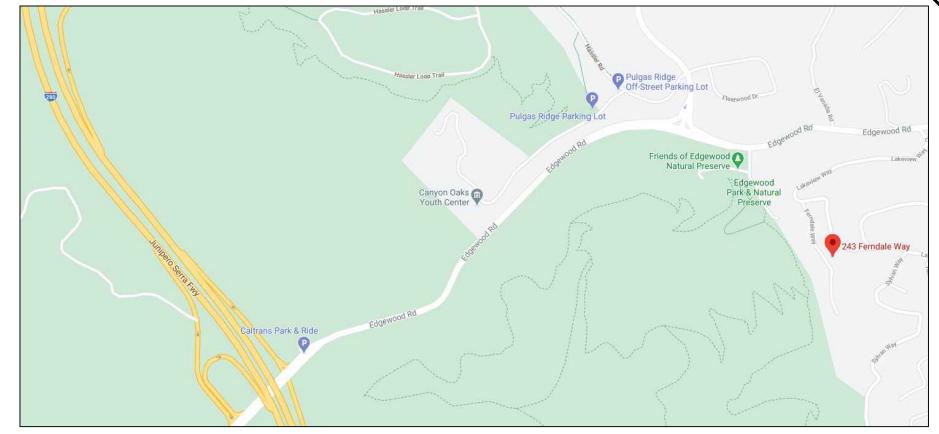
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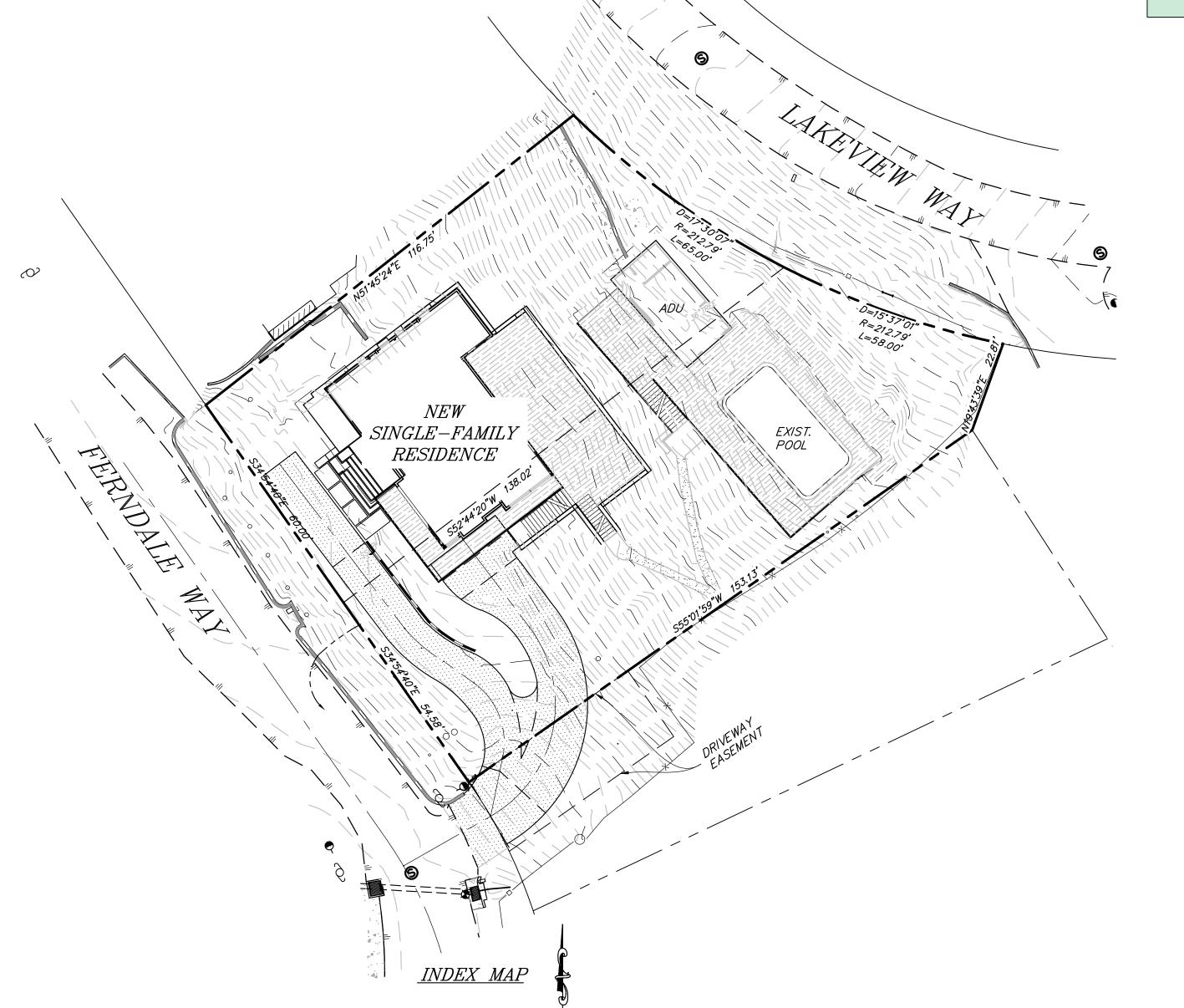
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- 8. EARTH MATERIAL IMPORTED OR EXCAVATED ON THE PROPERTY MAY BE UTILIZED AS FILL IN STRUCTURAL FILL AREAS, PROVIDED THAT EACH MATERIAL HAS BEEN DETERMINED TO BE SUITABLE BY THE GEOTECHNICAL ENGINEER. ALL FILL SHALL BE FREE OF ORGANIC AND OTHER DELETERIOUS MATERIAL. SOILS OF POOR GRADATION, EXPANSION POTENTIAL, OR STRENGTH CHARACTERISTICS SHALL BE PLACED IN AREAS DESIGNATED BY THE GEOTECHNICAL ENGINEER OR SHALL BE MIXED WITH WITH OTHER SOILS TO SERVICE AS SATISFACTORY SOIL MATERIAL.
- 9. ALL EXISTING STRUCTURES WILL BE REMOVED PRIOR TO ANY IMPROVEMENTS.

IF UNDERGROUND UTILITIES ARE SHOWN HEREON, IT IS FOR INFORMATION ONLY AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. FIELD VERIFY LOCATIONS PRIOR TO CONSTRUCTION.



**ABBREVIATIONS** 

AGGREGATE BASE ASPHALT CONCRETE BOTTOM OF STAIR CENTERLINE CONC CONCRETE CORRUGATED METAL PIPE EXISTING GRADE EDGE OF PAVEMENT EX, EXIST EXISTING FINISHED GRADE FLOW LINE FS FINISHED SURFACE NOT TO SCALE PROPERTY LINE SEWER MANHOLE SANITARY SEWER TOP OF CURB TOP OF FOOTING TOP OF GRATE TOP OF STAIR TOP OF WALL WATER VALVE

<u>LEGEND</u>

PROPERTY LINE ---- CENTERLINE ADJACENT PROPERTY LINE OR RIGHT OF WAY \_\_ Ш \_\_ EDGE OF PAVEMENT TREE TYPE & SIZE P=PINE/F=FIR/S=SNAG EXISTING GROUND 1005 CONTOUR & ELEV. -----OHU------ OVERHEAD UTILITIES FIRE HYDRANT SEWER MANHOLE ——*SS*—— EXISTING SEWERLINE TEMPORARY BENCHMARK

NET = 925 CY EXPORT

PROPOSED GROUND

CONTOUR & ELEV.

SHEE

F

|

7

triad/holmes assoc civil engineering land surveying

MAMMOTH LAKES BISHOP REDWOOD CITY

PREPARED & SUBMITTED BY:

REVISIONS:

P SUBMIT 7/29/21 | MBF

EV DR SUB. 12/1/21 MBF

PEV ENG. SUB. 1/11/22 MBP

APHAEL & ATHENA RULAN 671 HANOVER STREET DALE CITY, CA 94014

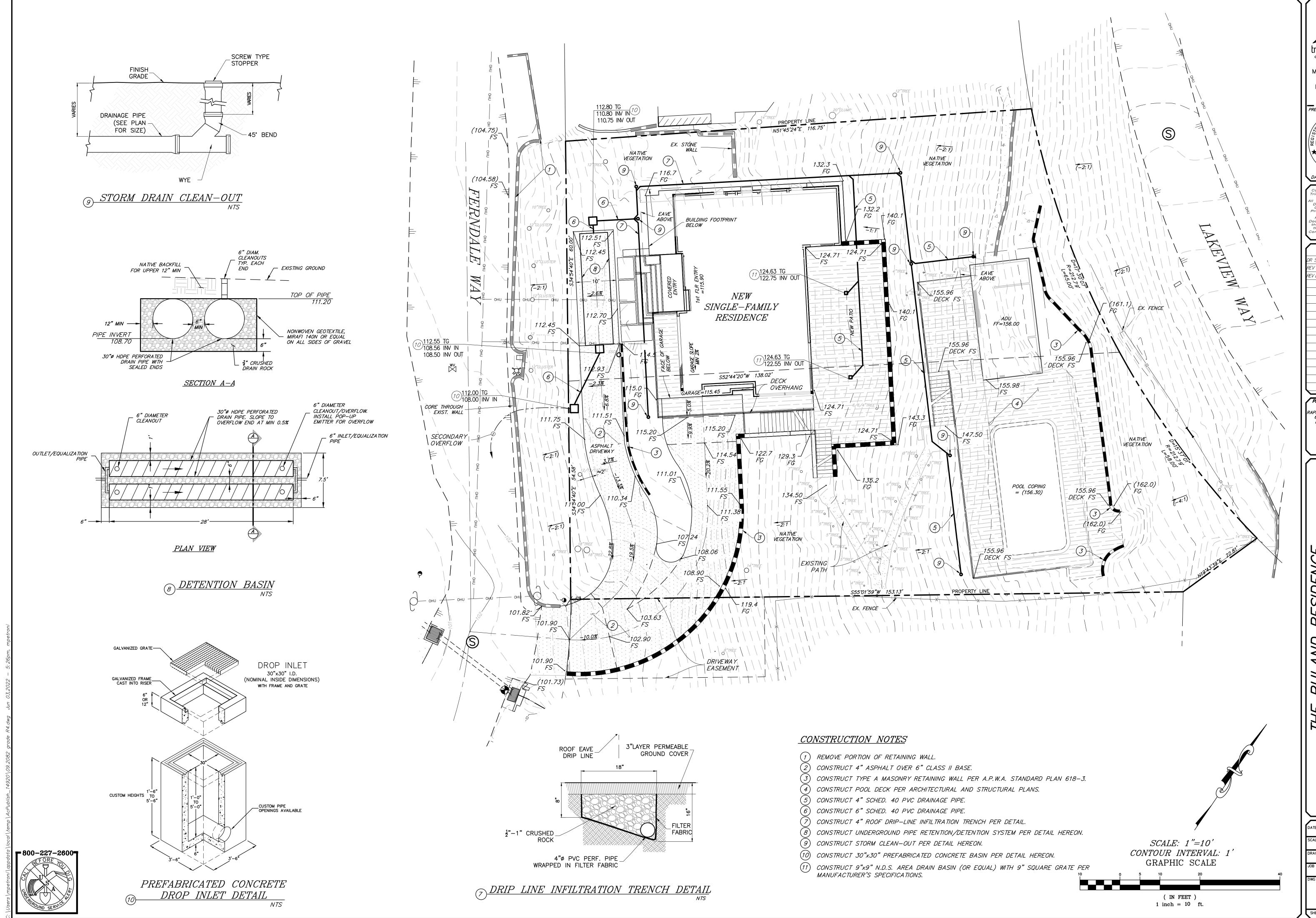
PH: 650-678-9372

DATE 1/11/2022

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09.2082.1

SHEET 1 OF —



PREPARED & SUBMITTED BY: C 69473 2 ENP 6/30/22

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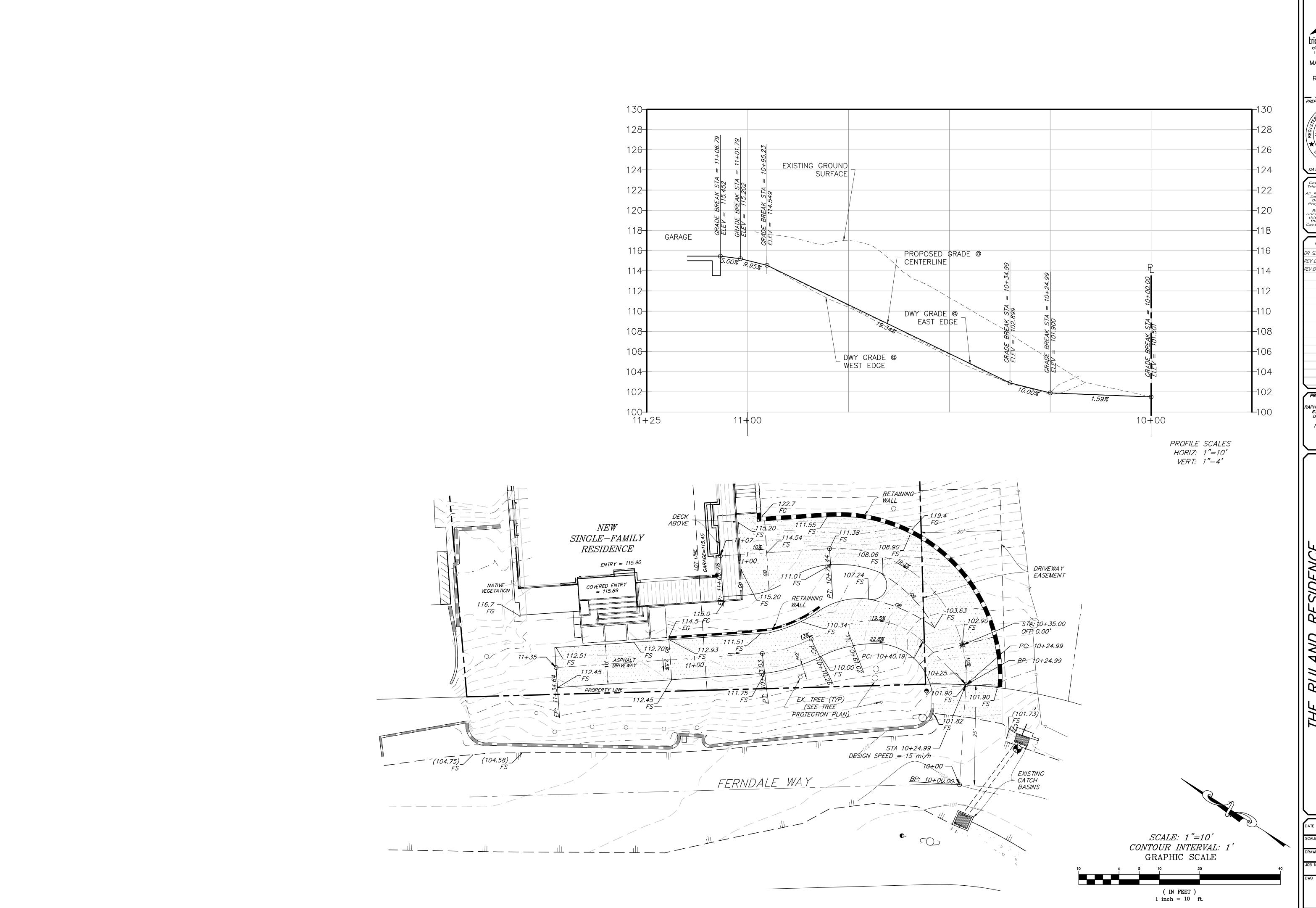
RAPHAEL & ATHENA RULAND 671 HANOVER STREET DALE CITY, CA 94014 PH: 650-678-9372

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DATE 1/11/2022

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PREPARED & SUBMITTED BY: 50 G 69473 QZ EXP 6/30/22 T

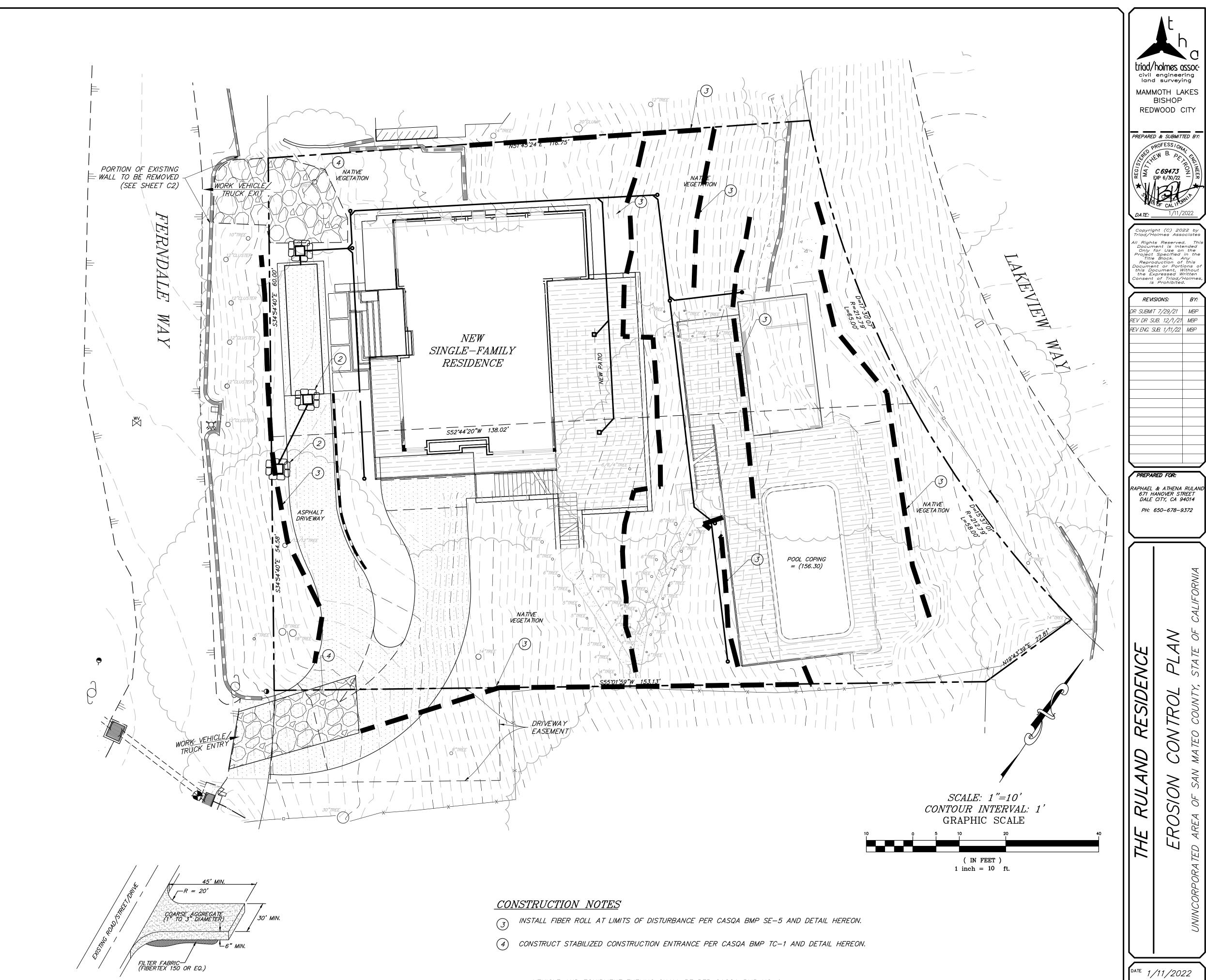
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DATE 1/11/2022 AS SHOWN

MBP 09.2082.1



• VEHICLE AND EQUIPMENT FUELING SHALL BE PER CASQA BMP NS-9.

• MATERIAL DELIVERY AND STORAGE SHALL BE PER CASQA BMP WM−1.

• NO VEHICLE AND EQUIPMENT CLEANING OR MAINTENANCE SHALL BE DONE ONSITE.

• SOLID WASTE SHALL BE DISPOSED OF PER CASQA BMP WM-5.

AS SHOWN

09.2082.1

MBP



SANDBAGS, 2 BAGS HIGH

DROP INLET

BMP SE-10

SEDIMENT ROLL STRAW WATTLE —

CONTOUR
KEY TRENCH
2" MIN. TO
4" MAX.

WOOD STAKE 1"x2"x23" 3' MAX SPACING

4 STABILIZED CONSTRUCTION ENTRANCE INTERIM EROSION CONTROL DETAIL
N. T. S.

BMP SE-5

3 FIBER ROLL DETAIL
N. T. S.

2 STORM DRAIN INLET PROTECTION

GENERAL TREE PROTECTION AND PRESERVATION GUIDELINES The objective of the tree protection and preservation guidelines is to provide the necessary information to ensure the continued health of existing trees within the proximity of construction dripline of existing trees to remain. and grading activities. Trees selected for preservation should be structurally sound and healthy so that they may survive any adverse impacts due to construction activity. Tree removal recommendations are based on conflicts with the proposed site improvements, noted supervised by the project arborist. deformities and potential failures related to such, and trees that present a hazard.

1.0 Tree Documentation
1.1 Indicate removal or preservation of all existing trees on an appropriately sized plan. Trees shall be identified and numbered as tagged on site. Accurate dripline locations for each tree to remain should be shown on all relevant plans (as shown on the Tree Inventory Plan). See attached.

2.0 Tree Protection2.1 The majority of the sensitive root structure of a tree is located within the top 6 to 12 inches of soil. This leaves them vulnerable to soil compaction, often due to construction activity, which limits available oxygen leading to stress and potential demise. This upper region of a tree is known as the critical root zone.

2.2 In an effort to protect the critical root zone, Tree Protective Fencing shall be erected. This temporary fencing will designate the Tree Protection Zone (TPZ). The fencing is a critical component to the preservation of existing trees. 2.3 Tree Protective Fencing should ideally be placed at the dripline of the tree to be protected, or beyond. However, the proximity of existing trees to the likely location of the entry drive and the proposed footprint of the residence, will compromise this objective. The following Tree Protective Fence criteria shall be

2.3.1 All protective fencing shall be approved by the project arborist. The fencing is to remain in place until the end of construction activity.

2.3.2 We recommend the fence be aligned with any proposed building/retaining

wall at the minimum distance which allows for the necessary excavation for wall installation (see Item 5.0). 2.3.3 Protective fencing shall be continuous orange polymer material ('snow fencing') mounted to steel posts driven firmly into ground (not mounted into concrete bases and set at grade). The spacing of the posts shall not

exceed 6 feet in distance. 2.3.4 Protective fencing shall be clearly indicated with a laminated sign reading 'DO NOT ENTER'. The sign shall also indicate that the project arborist is the only designated individual who may open, move or modify the location

2.3.5 No excavated fill, chemicals, debris or equipment or any other materials shall be dumped or stored within the TPZ. 2.3.6 Fencing should be orange polymer, secured by metal posts driven a minimum of 24" into the ground.

2.3.7 A minimum 6" layer of mulch shall be applied to all areas within the Tree Protection Zone for trees that fall within 20 feet of site disturbances. The mulch will help alleviate soil compaction and moderate temperatures. 2.3.8 The use of hydrated lime or quick lime shall not be permitted within the vicinity of any existing trees.

3.0 Grading
3.1 The project arborist shall be on-site for all disturbances of grades within the 3.2 The existing grade shall be maintained within the Tree Protection Zone. Any

changes in grade (cut or fill) shall be minimized and if undertaken shall be 3.3 Root pruning shall be determined on an individual basis for each tree. 3.4 Supplemental water must be readily available during excavation activities. The project arborist will determine if this is necessary due to construction impacts. Occasional spraying of the foliage with water to wash off dust will also be required. (See Item 6.1.4).

4.0 Pruning
4.1 Trees to be pruned for clearance shall be done prior to construction activities to avoid 4.2 All pruning shall be supervised by the project arborist and done in accordance to ISA procedures by certified tree workers or under the supervision of the project arborist.

5.0 Retaining Walls and Architectural Foundations5.1 Soil retention under the dripline of existing trees shall be sensitively designed to minimize root disturbance.

5.2 We recommend a pier and grade beam foundations to achieve minimal disturbance to the critical root zone. If a pier supported foundation wall is utilized, specify a flexible design to accommodate adjustments in pier locations to avoid potential conflicts with roots as they are encountered in the field. We understand an ideal retaining wall system has associated costs. The costs of such a wall should be germane to the budget of overall site improvements.

6.0 Construction Access & Staging
6.1 Given the relatively heavily wooded site, and topography, staging for construction should be limited to the lower and upper driveways. The pool deck area may also be utilized for staging for site improvements amongst the upper hillside. As noted within the tree table, the crane staging area along the southern shoulder of Lakeview Way should be located to minimize impacts on existing trees. The Project Arborist should be consulted to minimize potential impacts that might be placed on existing trees. Some which may require clearance pruning to accommodate the boom of the crane

7.0 Project Coordination7.1 Prior to the commencement of construction activities, the general contractor shall meet with the project arborist to review Tree Protection Measures as they related to the County of San Mateo's Tree Protection Ordinance and the procedures mentioned 7.2 During grading operations occurring within the Tree Protection Zone, the project arborist shall make bi-weekly inspections of the site during the length of construction

and the installation of the module architectural components.

to monitor trees and ensure tree Protection Measures are in place.

Conclusion and Continuing Maintenance

We believe that if the proper Tree Protection Measures and guidelines are addressed, the trees on the subject property shall continue to thrive or remain stable. As noted, mitigation measures shall ensue if any trees are significantly impacted. Regardless, site improvements will impact the existing trees. To what extent, time will tell. Often signs of decline show months and even years later. Vigilant monitoring is the most effective course of action to ensure continued health and failure prevention.

TREES THAT MERIT SPECIAL ATTENTION

Tree #17, a 20" Valley oak

Located 5' from proposed upper driveway. Typical base preparation for the proposed concrete driveway would place an adverse impact on the root system of the oak.

Recommendations:

If feasible, adjust the location of the driveway to provide additional clearance from the oak.

Retain Project Arborist to execute an exploratory root search to determine location of existing intermingled. roots prior to site disturbances. If roots are discovered, the following is recommended:

A specific detail for the road profile at this location may be developed though correspondence between the engineer and Project Arborist reflecting the following criteria: פון 3"-4" excavation (max.) shall occur within the vicinity of the oak. Tensar BX1200 Biaxial Geogrid shall be specified to lie on the existing grade. हों 6"-8" angular rock (with no fines) shall be applied on top of the base rock. A porous concrete shall be specified the length of the proposed 'island'. Thickness Recommendations: shall be specified by engineer.

ূল Edging material shall be a poured-in-place curb with no footing.

Tree #18, a 19" Valley oak

Located 7' from proposed driveway. Typical base preparation for an asphalt or concrete driveway would place an adverse impact on the root system of the oak.

Recommendations:

See arborist comments for Tree #17. Given the proximity to tree #17, it likely their root mass is

Tree #20, a 13", 10", 12.5" Coast live oak

The revised Site Plan has been realigned to provide additional clearance of approximately 2 feet (the driveway was previously located at the base of the oak). Typical base preparation for an asphalt or concrete driveway may place an adverse impact on the root system of the oak.

See arborist comments for Tree #17.

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MAMMOTH LAKES

BISHOP

REDWOOD CITY

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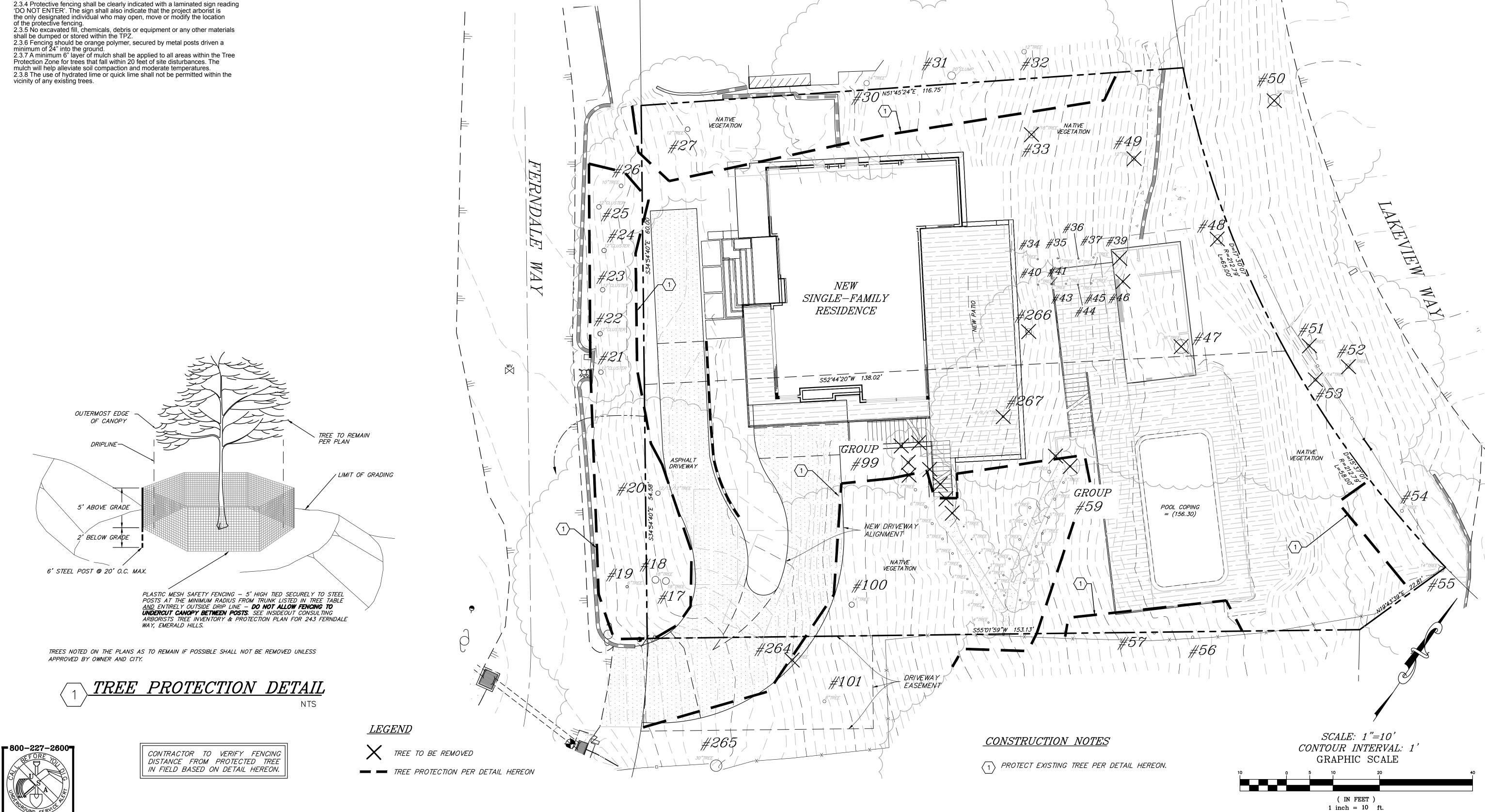
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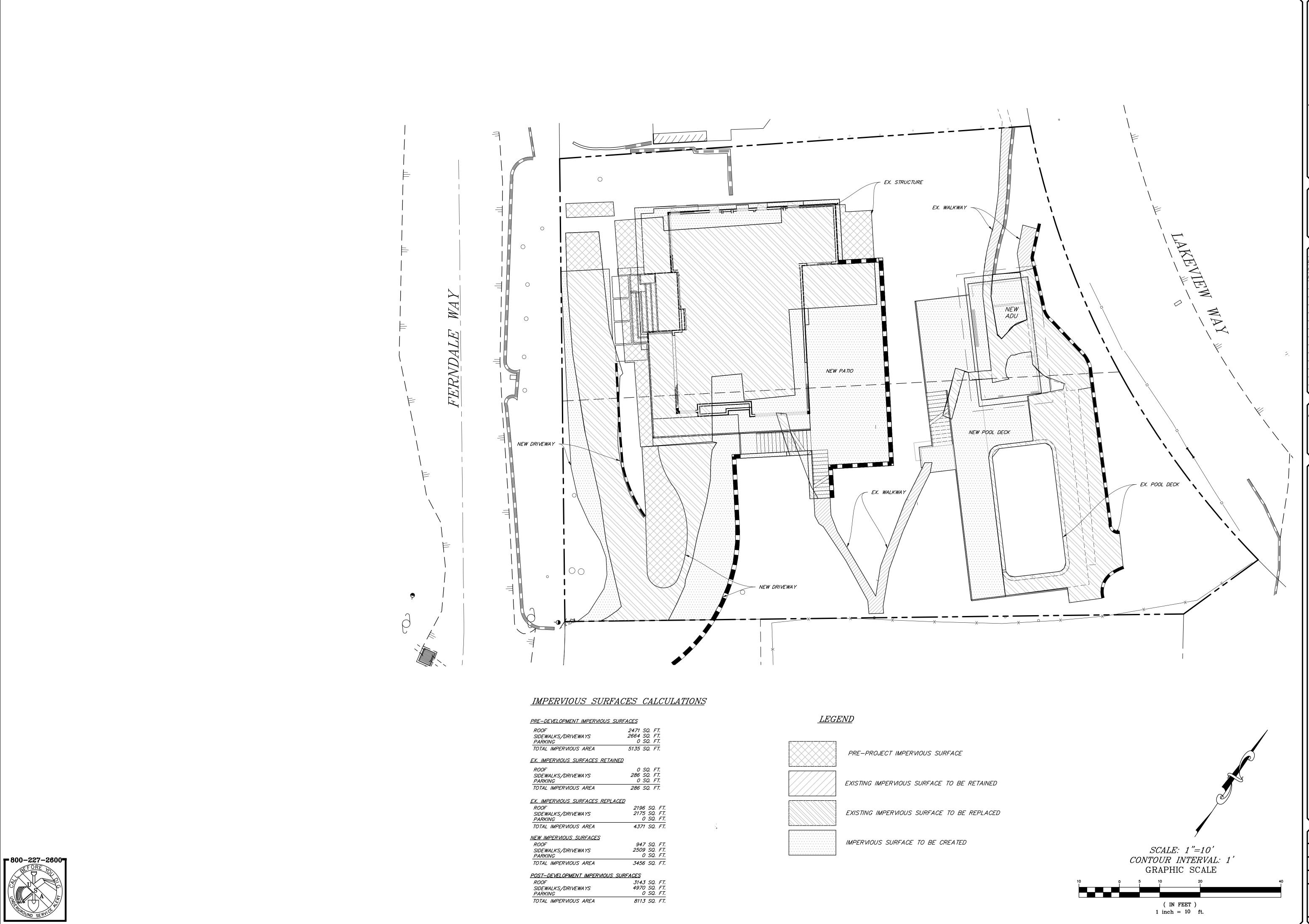
PREPARED FOR: RAPHAEL & ATHENA RULANI 671 HANOVER STREET

DALE CITY, CA 94014 PH: 650-678-9372

DATE 1/11/2022

AS SHOWN MBP 09.2082.1





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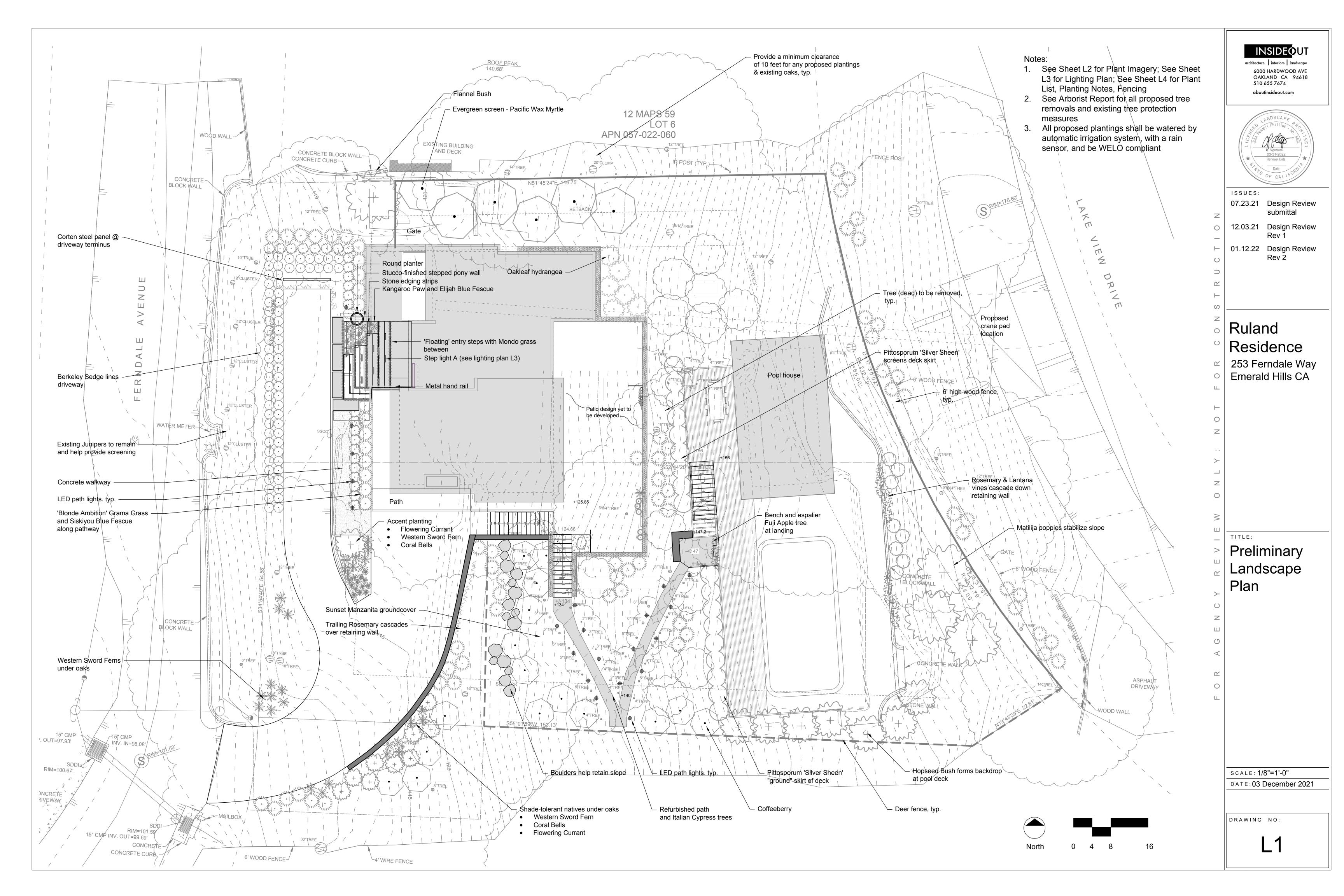
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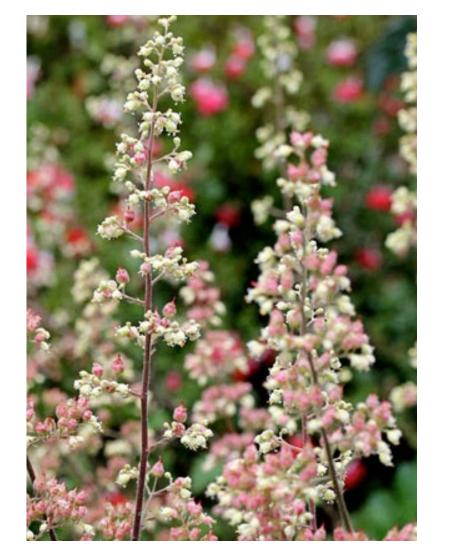
# PLANT PALETTE





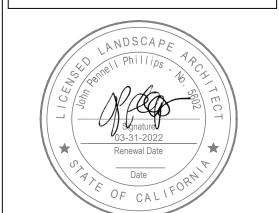












ISSUES:

07.23.21 Design Review

submittal

12.03.21 Design Review Rev 1

FRONT YARD - Kangaroo Paw, Blonde Ambition Grama Grass, Blue Fescue, Berkeley Sedge, Coral Bells, Western Sword Fern











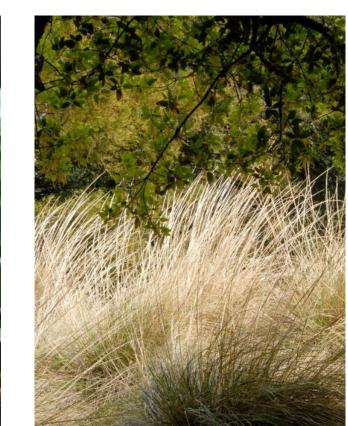
Ruland Residence

253 Ferndale Way Emerald Hills CA

BACK YARD - Matilija Poppy, Purple Hopseed Bush, Trailing Rosemary, Fuji Apple Espalier, Grace Smoke Tree















Landscape Imagery

TITLE:

FLORAL CHARACTER - Currant, Lantana, Oakleaf Hydrangea



SIDE YARDS - Flannel Bush, Pacific Wax Myrtle, Deer Grass, Wild Lilac





SCALE

DATE: 23 JULY 2021

DRAWING NO:

L2

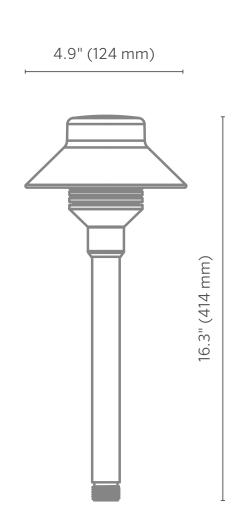
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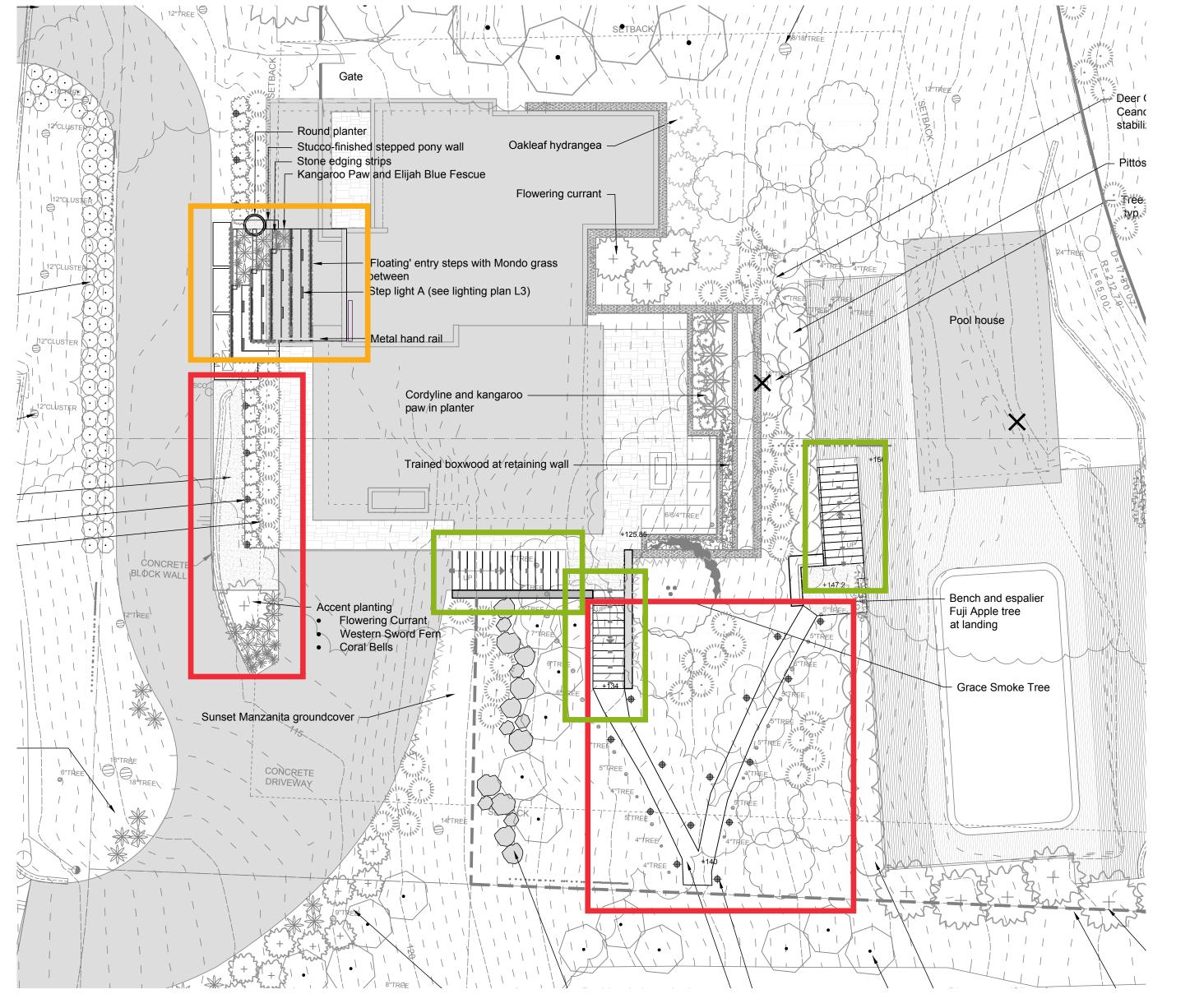


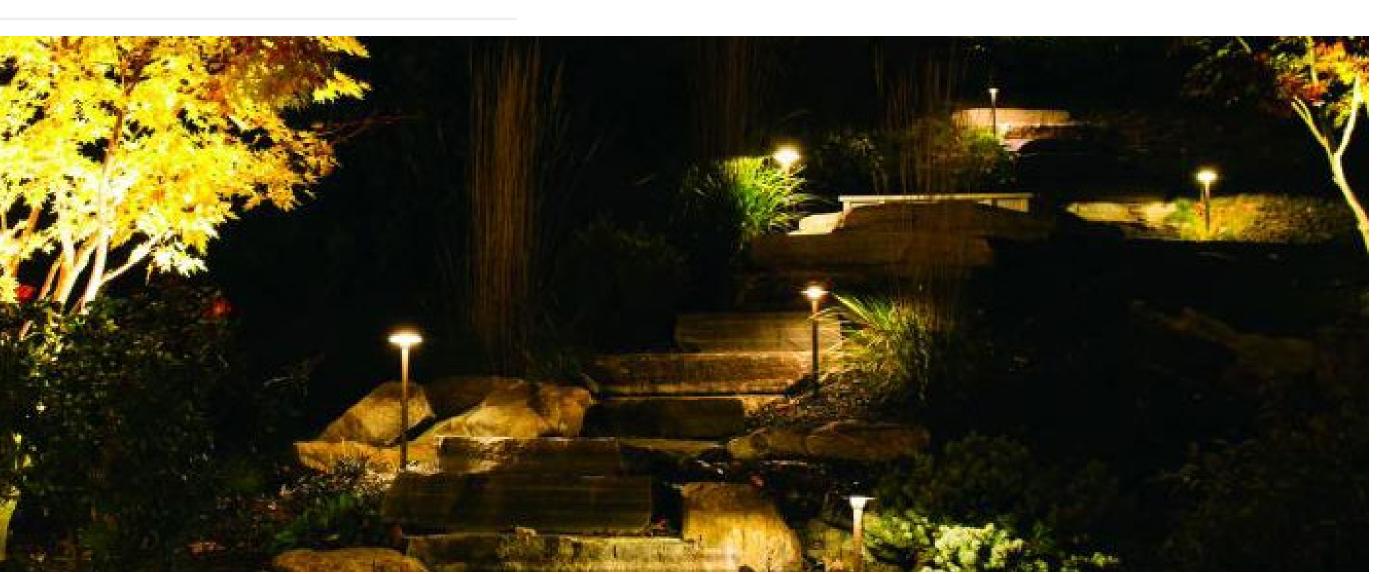
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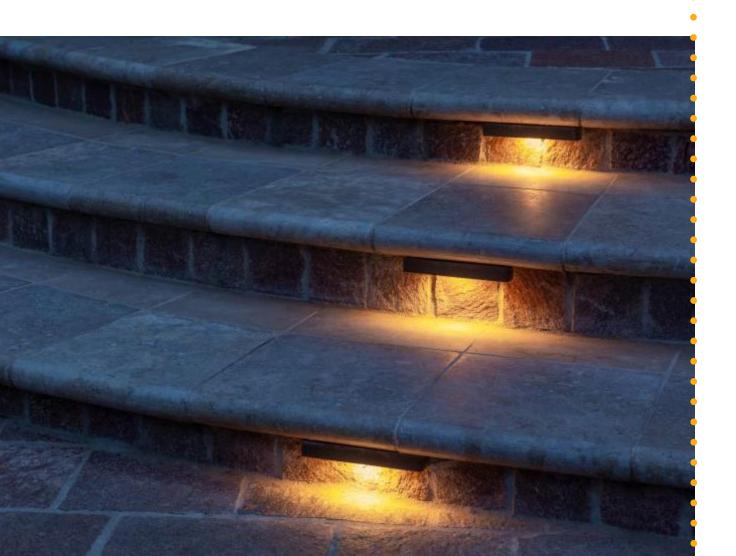


: FX Luminaire - TM LED Path Light

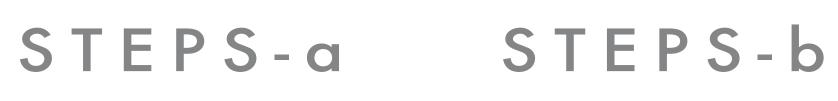






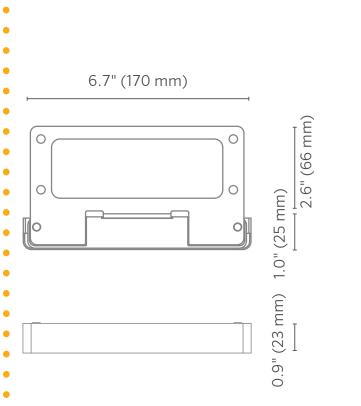




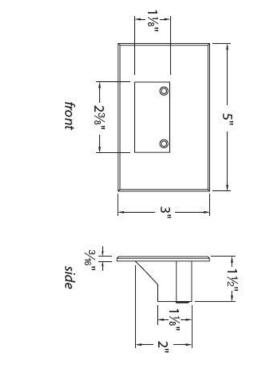


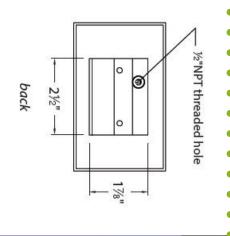


; FX Luminaire LF LED Wall Light



WAC Lighting LEDme Step Light











ISSUES:

07.23.21 Design Review submittal

12.03.21 Design Review Rev 1

# Ruland Residence

253 Ferndale Way Emerald Hills CA

TITLE:

Lighting Imagery

DATE: 23 JULY 2021

DRAWING NO:

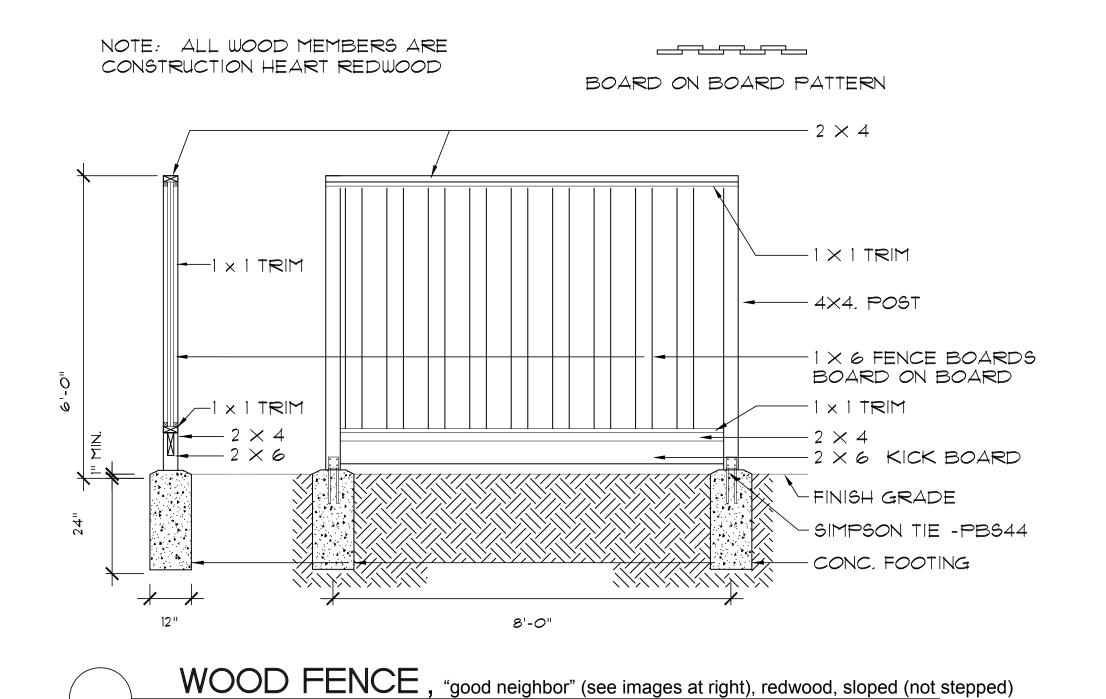
# PLANT LIST

Index	Latin Name	Common Name	Size	Spacing	WELO
Trees					
CG	Cotinus x 'Grace'	Grace Smoke Tree	5 gallon	As Shown	L
FM	Fremontodendren californicum 'Ken Taylor'	Flannel Bush	15 gallon	As Shown	L
MD	Malus domestica 'Fuji'	Fuji Apple	15 gallon	As Shown	M
PT	Pittosporum tenuifolium 'Silver Sheen'	Pittosporum 'Silver Sheen'	5 gallon	4'-0" o.c.	M
Shrubs					
AD	Asparagus densiflora	Myer Asparagus Fern	1 gallon	2'-0" o.c.	М
AF	Anigozanthos flavidus' Bush Ranger'	Kangaroo Paw	1 gallon	2'-0" o.c.	L
CA	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	1 gallon	2'-0" o.c.	М
CD	Carex divulsa	Berkeley Sedge	4" pots	2'-0" o.c.	L
CF	Cordyline 'Festival Lime'	NCN	1 gallon	2'-6" o.c.	M
DV	Dodonea viscosa 'Purperea'	Hopseed Bush	5 gallon	8'-0" o.c.	L
FC	Frangula californica	Coffeeberry	5 gallon	8'-0" o.c.	L
HQ	Hydrangea quercifolia 'Brido'	Snowflake Oakleaf Hydrangea	5 gallon	4'-0" o.c.	М
LC	Loropetalum chinense 'Chang Nian Hong'	Ever Red Fringe Flower	5 gallon	4'-0" o.c.	L
LL	Lomandra longifolia 'Breeze'	Dwarf Mat Rush	1 gallon	2'-0" o.c.	L
LS	Leucadendron salignum 'Blush'	NCN	5 gallon	4'-0" o.c.	L
MC	Myrica californica	Pacific Wax Myrtle	5 gallon	6'-0" o.c.	M
MR	Muhlenbergia rigens	Deer Grass	1 gallon	2'-6" o.c.	L
PM	Polystichum minutum	Western Sword Fern	1 gallon	2'-6" o.c.	L
PO	Pennisetum orientale	Fountain Grass	1 gallon	2'-6" o.c.	M
RC	Romneya coulteri 'White Cloud'	Matilija Poppy	5 gallon	8'-0" o.c.	L
RS	Ribes sanguineum	Flowering Currant	5 gallon	6'-0" o.c.	L
Groundo	overs & Vines				
AS	Arctostaphylos Sunset	Sunset Manzanita	1 gallon	1'-6" o.c.	L
BG	Bouteloua gracilis 'Blonde Ambition'	Blue Grama Grass	1 gallon	3'-0" o.c.	L
CH	Ceanothus horizontalis 'Carmel Creeper'	Carmel Creeper Wild Lilac	1 gallon	8'-0" o.c.	L
FE	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	1 gallon	1'-0" o.c.	L
FS	Festuca glauca 'Siskiyou blue'	Siskiyou Blue Fescue	1 gallon	2'-0" o.c.	L
НМ	Heuchera maxima 'Alum Root'	Coral Bells	1 gallon	2'-0" o.c.	M
LM	Lantana montevidensis	Trailing Lantana	1 gallon	8'-0" o.c.	L
OJ	Ophiopogon japonicus	Mondo Grass	4 inches	0'-6" o.c.	M
RO	Rosemarinus officinalis 'Prostratus'	Trailing Rosemary	1 gallon	6'-0" o.c.	L

# PLANTING NOTES

- 1. All work shall be performed by persons familiar with planting work and under the supervision of a qualifie plant foreman.
- 2. Plant material locations shown are diagrammatic and may be subject to change in the fiel by the Landscape Architect (LA).
- 3. In case of discrepancies contact LA for clarification
- 4. Plant locations are to be adjusted in the fiel as necessary to screen utilities but not to block windows or impede access.
- 5. The LA reserves the right to make substitutions, additions or deletions in the planting scheme as they feel necessary while work is in progress. Such changes are to be accompanied by equitable adjustments in the contract price if/when necessary.
- 6. All trees in formal grouping shall be matching in size and shape.
- 7. Branching heights of trees shall be 6' minimum above finis grade.
- 8. The Landscape Contractor shall secure all vines with to fences wit approved fasteners allowing for two year growth.
- Landscape Contractor shall hire an accredited Soil's Analysis fir to test soil and abide by recommendations within for proper plant growth.
- 10. On grade planting backfil mix shall consist of 50% imported topsoil, 50% native soil, with no rocks larger than 2" diameter.
- 11. All on-grade planting areas are to receive iron and nitrogen stabilized redwood soil conditioner at the rate of 6 cubic yards/ 1000 square feet evenly tilled to a 6" inch depth to finis grade into the soil.
- 12. All street trees to be installed in accordance to the City's standards.
- 13. All planting areas to be top dressed with a 3" layer of fi bark chips with a maximum size of 1" diameter.
- 14. Planting areas shall remain 3' clear of all fir hydrants and fir lanes.
- 15. The Fire Department requires 20' horizontal clearance and 14' vertical clearance for path of travel in fir lanes.
- 16. All plantings shall be watered by a new water conserving irrigation system utilizing bubblers for 15 gallon containers, drip for em mitters for buxwood & Pittosporum plantings (to limit overspray on ramp) and microspray for all other plantings.

# FENCING DETAILS



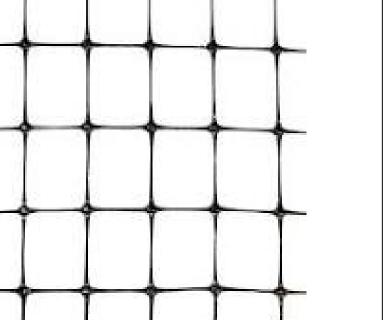
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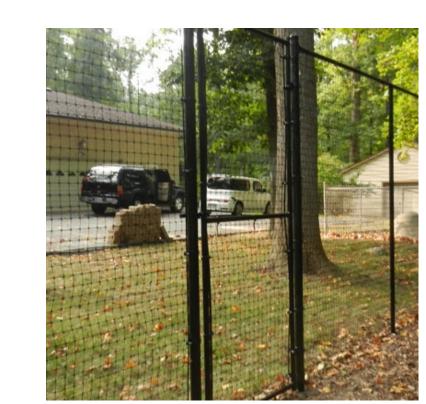












TITLE: Plant List, Plant Notes, Fencing Details

INSIDEOUT

6000 HARDWOOD AVE OAKLAND CA 94618

Design Review

submittal

Rev 1

12.03.21 Design Review

architecture interiors landscap

510 655 7674

ISSUES:

07.23.21

Ruland

Residence

253 Ferndale Way

**Emerald Hills CA** 

SCALE: DATE: 23 JULY 2021

DRAWING NO:

