

# PROJECT LOCATION **VICINITY MAP:**

NOT TO SCALE

#### **PROJECT TEAM INFO:**

#### <u>Developer</u>

**Thomas James Homes** 255 Shoreline Dr Suite 428 Redwood City, CA 94065 Tel: (408) 402-3024

#### **Architect**

LOCATION

**Dahlin Group** 5865 Owens Drive Pleasanton, CA 94588 Tel: (925) 251-7200 Contact: Jaime Matheron jaime.matheron@dahlingroup.com

#### **Landscape** Roach & Campbell

111 Scripps Drive Sacramento, CA 95825 Tel: (916) 945-8003 Contact: Aimee Hendrie aimee@roachcampbell.com

**PROPOSED SETBACKS**:

#### **DEVELOPMENT SUMMARY**

ASSESSOR'S PARCEL NUMBER 057-123-010 PARCEL AREA - GROSS 10,953 SQ. FT. 0.25 AC **ZONING DESIGNATION** OCCUPANCY GROUP R-3 V-B **CONSTRUCTION TYPE** 3,286 SQ. FT. MAX. FLOOR AREA RATIO PROPOSED FLOOR AREA 2,907 SQ.FT. 2,667 SQ. FT. MAX. LOT COVERAGE 22.03% PROPOSED LOT COVERAGE 2,419 SQ. FT.

(NO DAYLIGHT PLANE IN RH DISTRICT) PROPOSED BUILDING HEIGHT

#### **REQUIRED SETBACKS:**

FRONT - STREET (FT) FRONT - STREET (FT) SIDE - RIGHT (FT) 28'-4" SIDE - RIGHT (FT) 12'-6" SIDE - LEFT (FT) 7'-6" SIDE - LEFT (FT) 15'-0" (20' MAX. COMBINED) REAR (FT) 41'-5" REAR (FT)

29 W SUMMIT DR.

#### PARKING REQUIRED:

MAX. BUILDING HEIGHT

(2) STALLS (PROVIDED IN GARAGE), (2) GUEST PARKING STALLS (PROVIDED IN DRIVEWAY AND RIGHT OF WAY), AND (1) ADU PARKING STALL (PROVIDED IN DRIVEWAY) MIN. STALL DIMENSIONS: 9'X19' PER SPACE

**EXISTING USE:** ONE SINGLE FAMILY DETACHED RESIDENCE OF APPROX. 1,867 SQ. FT. TO BE

EXISTING RESIDENCE = 1,588 SQ. FT. EXISTING GARAGE = 279 SQ. FT.

**PROPOSED USE:** ONE NEW SINGLE FAMILY DETACHED RESIDENCE OF 2,494 SQ. FT, ATTACHED GARAGE OF 376 SQ. FT., ATTACHED PORCH OF 37 SQ. FT. AND ATTACHED ADU OF 450 SQ. FT.

CODES AND REGULATIONS GOVERNING THE PROJECT: CURRENT 2019 CALIFORNIA

#### FRONTAGE IMPROVEMENTS

ALL EXISTING CRACKED OR DAMAGED FEATURES ALONG THE PROPERTY FRONTAGE MUST BE REPAIRED IN KIND. ADDITIONALLY, ANY FRONTAGE IMPROVEMENTS WHICH ARE DAMAGED AS A RESULT OF CONSTRUCTION WILL BE REQUIRED TO BE REPLACED. ALL FRONTAGE IMPROVEMENT WORK SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE CITY STANDARD DETAILS.

ANY ENCROACHMENT PERMIT FROM THE ENGINEERING DIVISION IS REQUIRED PRIOR TO ANY CONSTUCTION ACTIVITIES, INCLUDING UTILITY LATERALS, IN THE PUBLIC RIGHT OF

#### **SHEET INDEX:**

#### **ARCHITECTURAL:**

TITLE SHEET SITE AERIAL & PHOTOS

SITE PLAN

FLOOR PLANS

**ROOF PLAN** 

**ELEVATIONS** 

**ELEVATIONS** 

SECTIONS

COLORS & MATERIALS

#### CIVIL:

GRADING, DRAINAGE & UTILITY PLAN

**DETAILS & CONSTRUCTION BMPS** SANITARY SEWER DETAILS & NOTES

ADDITIONAL SANITARY SEWER DETAILS

EROSION CONTROL PLAN **EROSION CONTROL DETAILS** 

**EROSION CONTROL & CONSTRUCTION BMPS** 

**TOPOGRAPHIC & BOUNDARY SURVEY** 

#### LANDSCAPE:

LAYOUT PLAN, NOTES, AND LEGEND

**CONSTRUCTION DETAILS** 

IRRIGATION PLAN AND LEGEND

IRRIGATION NOTES AND SCHEDULE

**IRRIGATION DETAILS** 

PLANTING PLAN AND LEGEND

PLANTING NOTES AND WATER USE CALCULATIONS

**FIRST FLOOR** 

GARAGE

ADU\*

TOTAL:

PROPOSED LOT

MAX. LOT COVERAGE

PARCEL AREA

OVERAGE %

LOT COVERAGE

1361 SQ. FT

376 SQ. FT

37 SQ. FT

195 SQ. F7

450 SQ. FT

2419 SQ. FT

2738 SQ. FT

10953 SQ. FT

22.00%

PLANTING DETAILS

TREE PROTECTION PLAN AND NOTES

# 3 BEDROOMS / 3.5 BATH +

1 BEDROOM / 1 B				
FLOOR AREAS				
FIRST FLOOR	1361 SQ. FT.			
SECOND FLOOR	1133 SQ. FT.			
TOTAL LIVING	2494 SQ. FT.			
GARAGE	376 SQ. FT.			
PORCH	37 SQ. FT.			
ADU - ATTACHED (EXCLUDED FROM FAR)	450 SQ. FT.			
FAR: (LIVING + GARAGE + PORCH)	2907 SQ. FT.			
MAX FAR:	3286 SQ. FT.			
THOMAS JAMES HOMES STANDARD S.F. (LIVING + ADU + 24)	2968 SQ. FT.			

AS PER THE SAN MATEO **COUNTY ZONING REGULATIONS** (SECTION 6429.1.6 LOT COVERAGE) ACCESSORY DWELLING UNITS SHALL COUNT TOWARDS THE ALLOWED LOT COVERAGE ON A PARCEL, EXCEPT THAT NO LOT COVERAGE RESTRICTIONS SHALL PRECLUDE CREATION OF AN ATTACHED OR DETACHED ACCESSORY DWELLING UNIT OF AT LEAST 800 SQ. FT. IN SIZE THAT MEETS ALL OTHER RELEVANT STANDARDS.

TITLE SHEET



**DATE** 07-29-2022 JOB NO. 1641.008









NOT TO SCALE



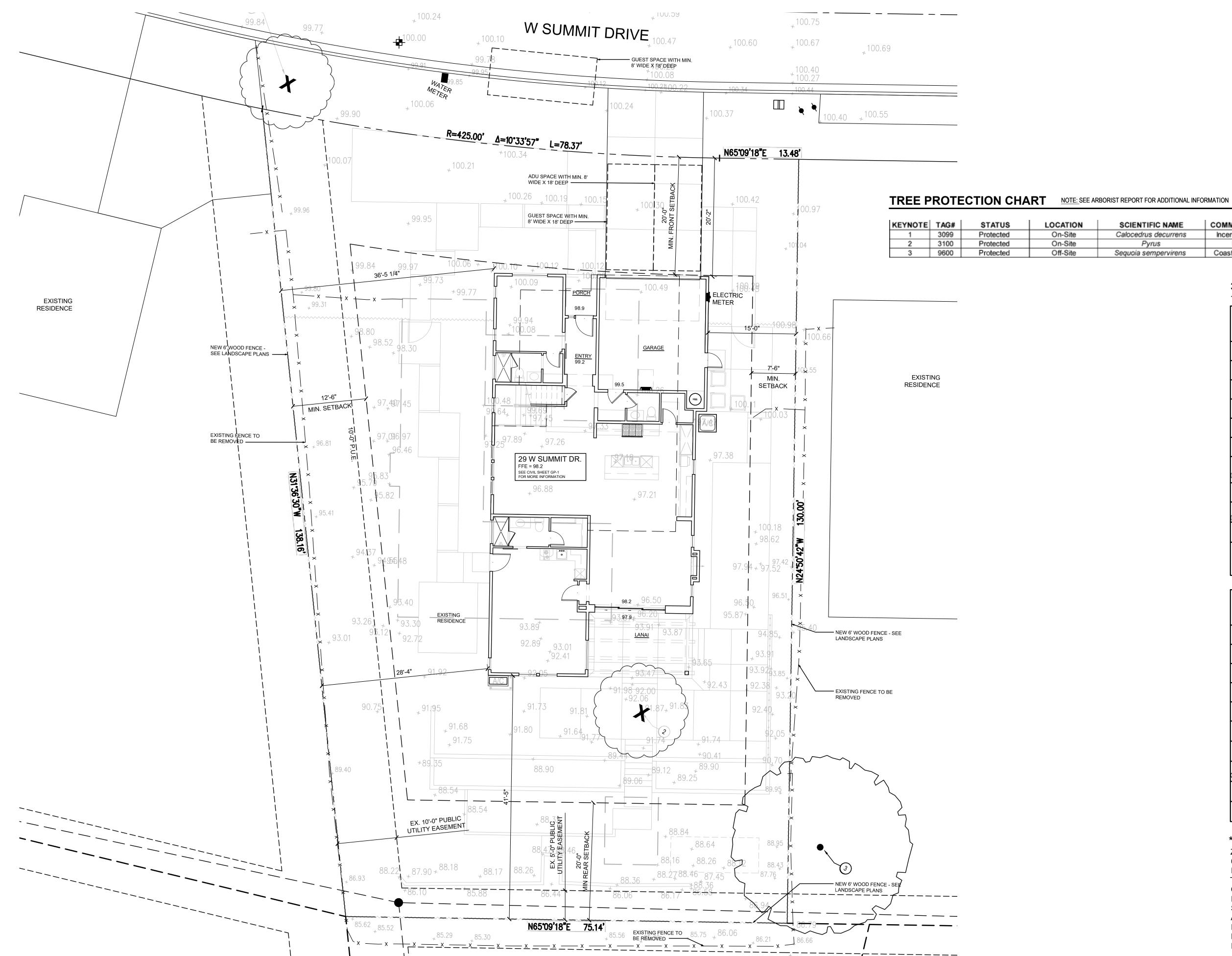
29 W SUMMIT DRIVE, EMERALD HILLS D28M400A - CR





DATE
JOB NO.





EYNOTE	TAG#	STATUS	LOCATION	SCIENTIFIC NAME	COMMON NAME	DBH (in)	ACTION
1	3099	Protected	On-Site	Calocedrus decurrens	Incense Cedar	9	Remove
2	3100	Protected	On-Site	Pyrus	Pear	13	Remove
3	9600	Protected	Off-Site	Sequoia sempervirens	Coast Redwood	45	Retain and Protect

3 BEDROOMS / 3.5 BATH + 1 BEDROOM / 1 BATH ADU

FLOOR AREAS						
FIRST FLOOR 1361 SQ. FT.						
SECOND FLOOR	1133 SQ. FT					
TOTAL LIVING	2494 SQ. FT					
GARAGE	376 SQ. FT					
PORCH	37 SQ. FT					
ADU - ATTACHED (EXCLUDED FROM FAR)	450 SQ. FT					
FAR: (LIVING + GARAGE + PORCH)	2907 SQ. FT					
MAX FAR:	3286 SQ. FT					
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LOT COVERAGE						
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GARAGE	376 SQ. FT					
PORCH	37 SQ. FT					
LANAI	195 SQ. FT					
ADU*	450 SQ. FT					
TOTAL:	2419 SQ. FT					
PROPOSED LOT COVERAGE %	22.00%					
MAX. LOT COVERAGE	2738 SQ. FT					
PARCEL AREA	10953 SQ. FT					

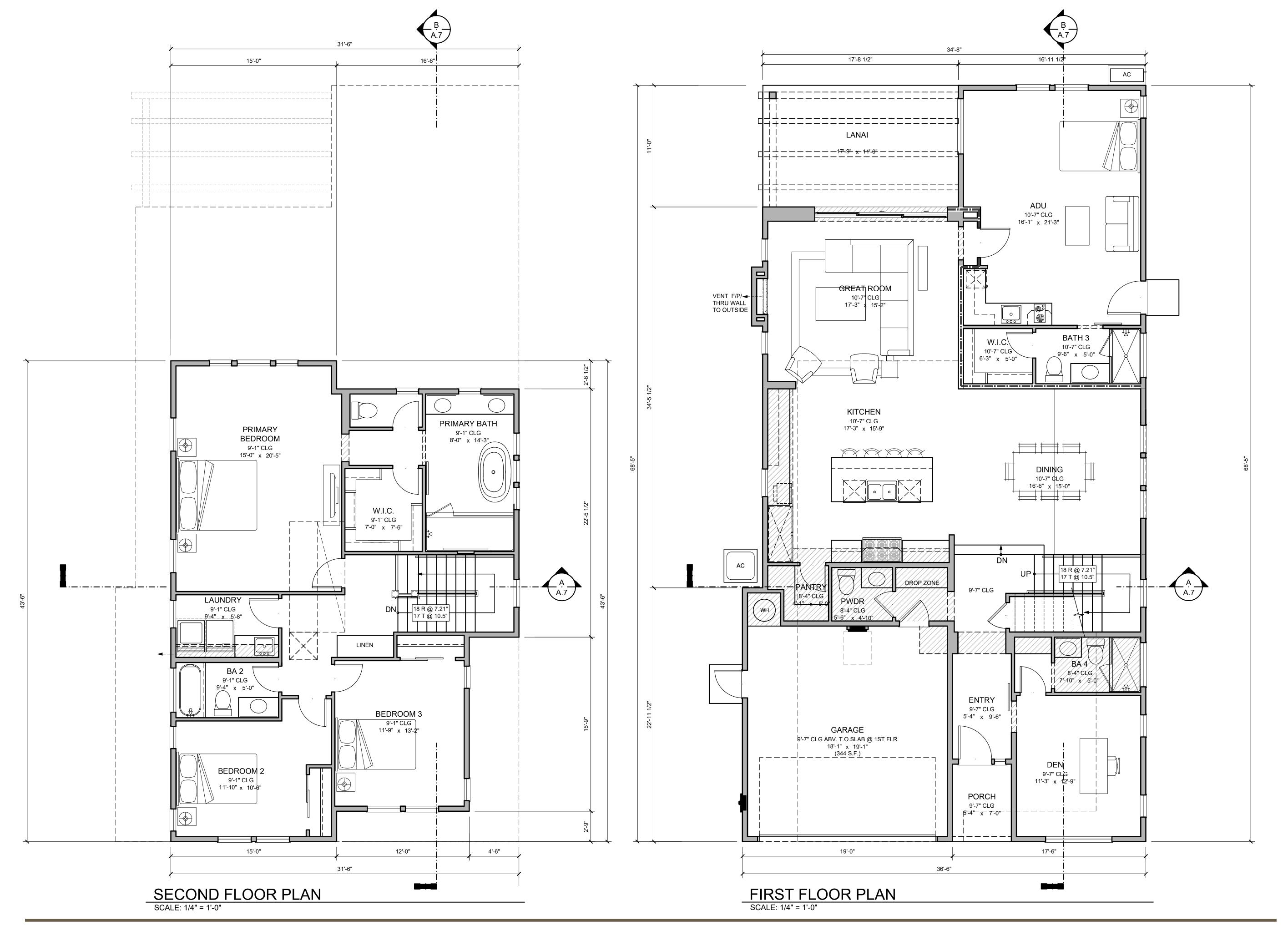
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SCALE : 1/8" = 1'-0"

DATE 07-29-2022 JOB NO. 1641.008

5865 Owens Drive Pleasanton, CA 94588 925-251-7200





3 BEDROOMS / 3.5 BATH + 1 BEDROOM / 1 BATH ADU

FLOOR	AREAS
FIRST FLOOR	1361 SQ. F7
SECOND FLOOR	1133 SQ. F7
TOTAL LIVING	2494 SQ. F
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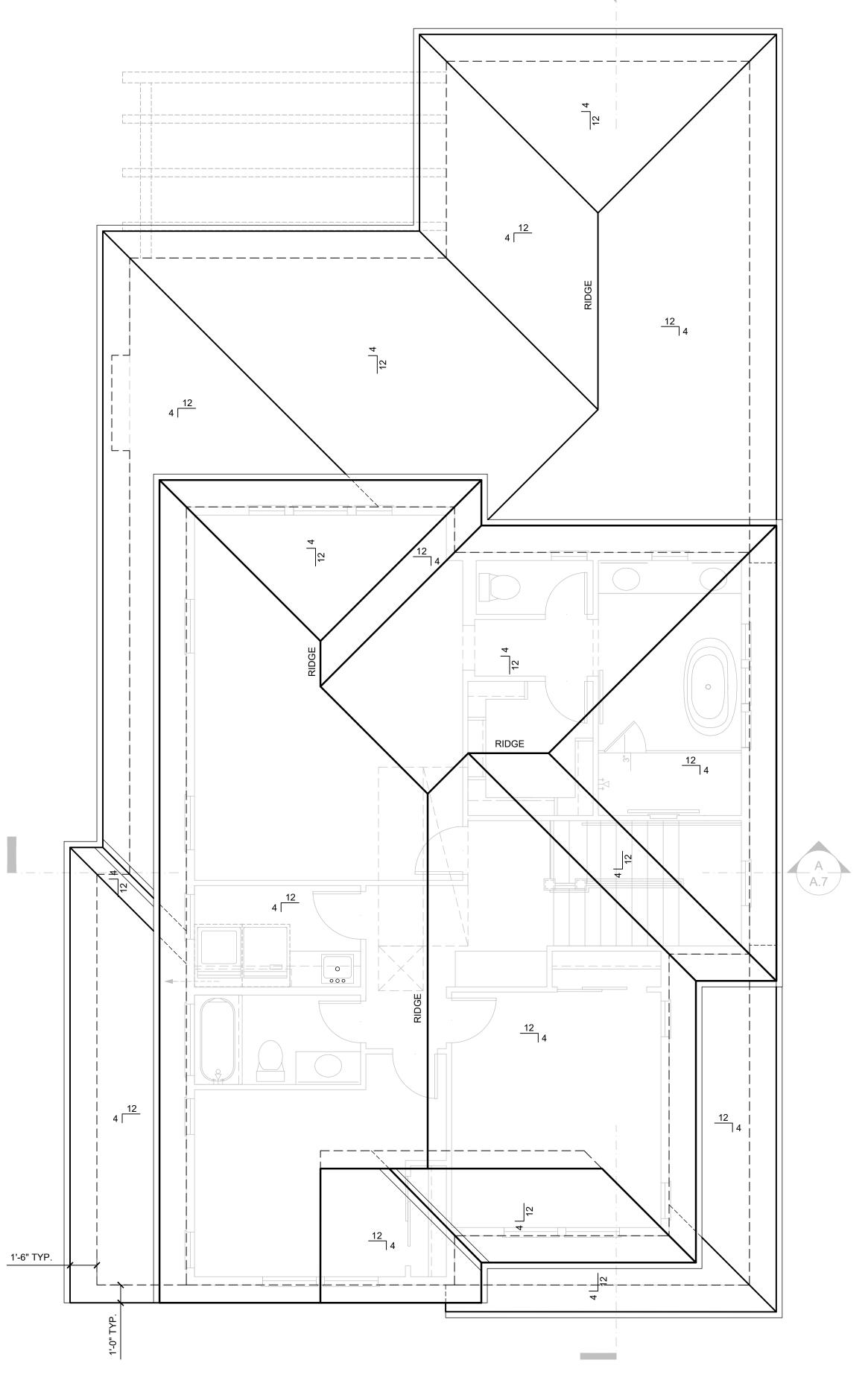
# SCALE : 1/4" = 1'-0"

DATE	07-29-2022
JOB NO.	1641.008

5865 Owens Drive Pleasanton, CA 94588 925-251-7200

FLOOR PLANS

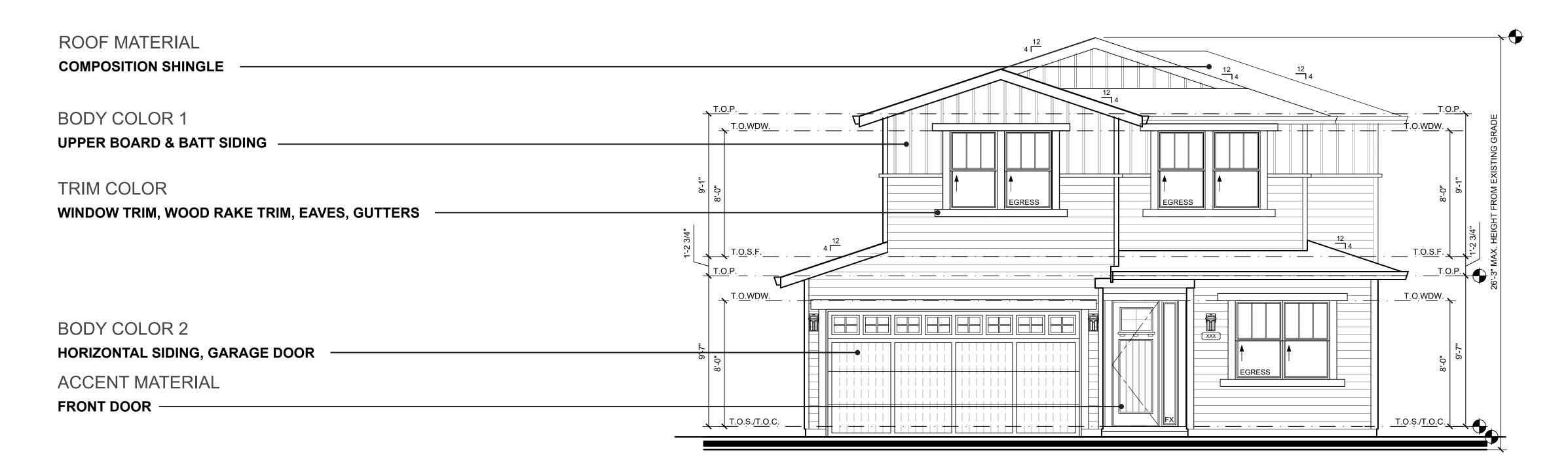




**ROOF PLAN** 

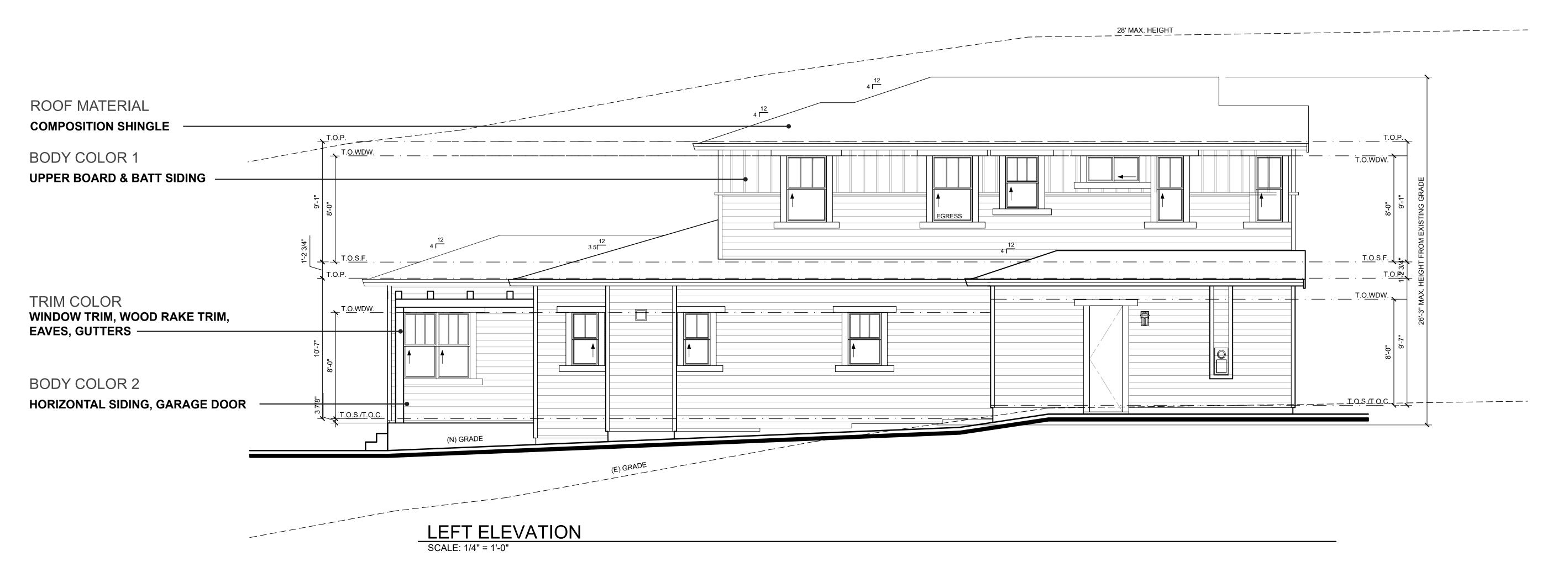
DATE
JOB NO. 07-29-2022 1641.008

SCALE : 1/4" = 1'-0"



FRONT ELEVATION

SCALE: 1/4" = 1'-0"



# ELEVATIONS

DAHLIN

WINDOWS

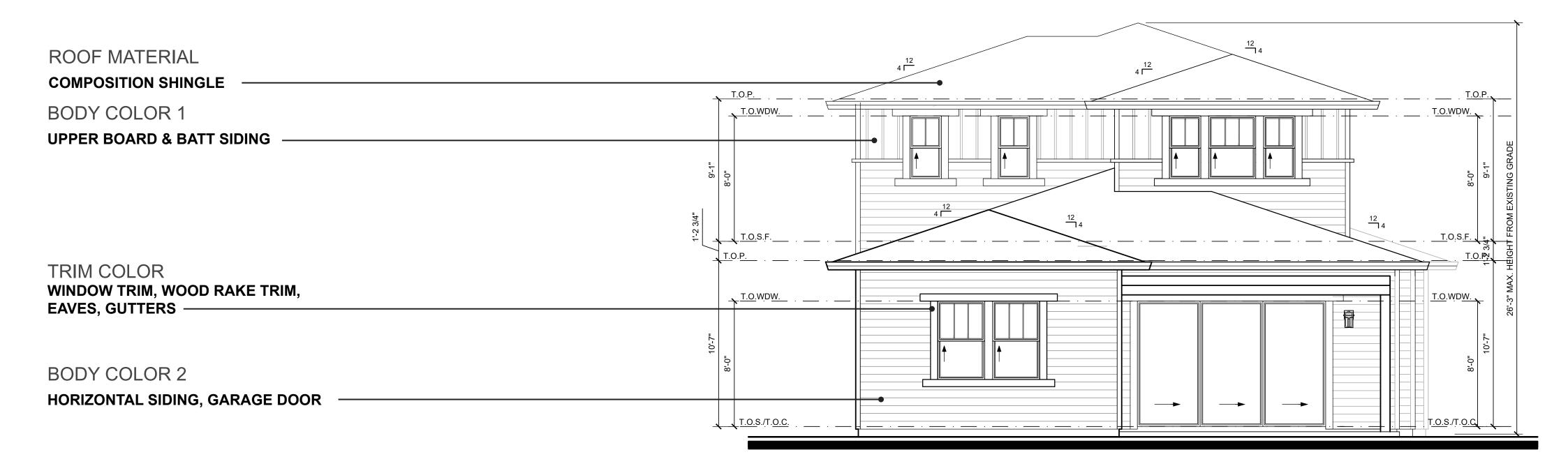
MARVIN ESSENTIAL ALL

ULTREX WINDOWS TYP.

SCALE: 1/4" = 1'-0"

DATE07-29-2022JOB NO.1641.008

5865 Owens Drive Pleasanton, CA 94588 925-251-7200



#### REAR ELEVATION SCALE: 1/4" = 1'-0"

**ROOF MATERIAL COMPOSITION SHINGLE BODY COLOR 1 UPPER BOARD & BATT SIDING** TRIM COLOR WINDOW TRIM, WOOD RAKE TRIM, \_\_\_T.O.W<u>DW</u>.\_**、 EAVES, GUTTERS** STAIR LANDING BODY COLOR 2 HORIZONTAL SIDING, GARAGE DOOR\_ (N) GRADE RIGHT ELEVATION

ELEVATIONS

D28M400A - CR

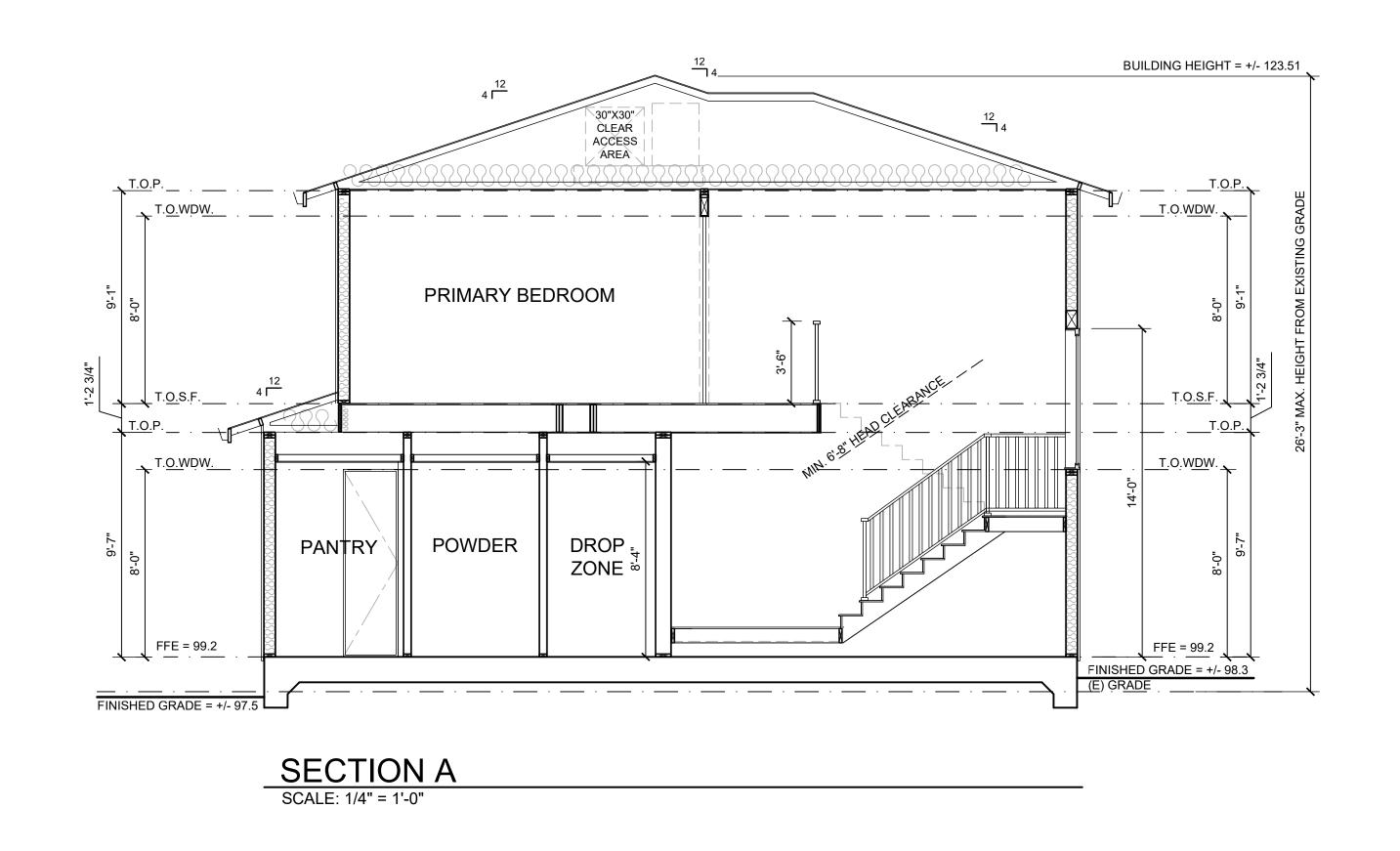
**WINDOWS** MARVIN ESSENTIAL ALL ULTREX WINDOWS TYP. SCALE : 1/4" = 1'-0"

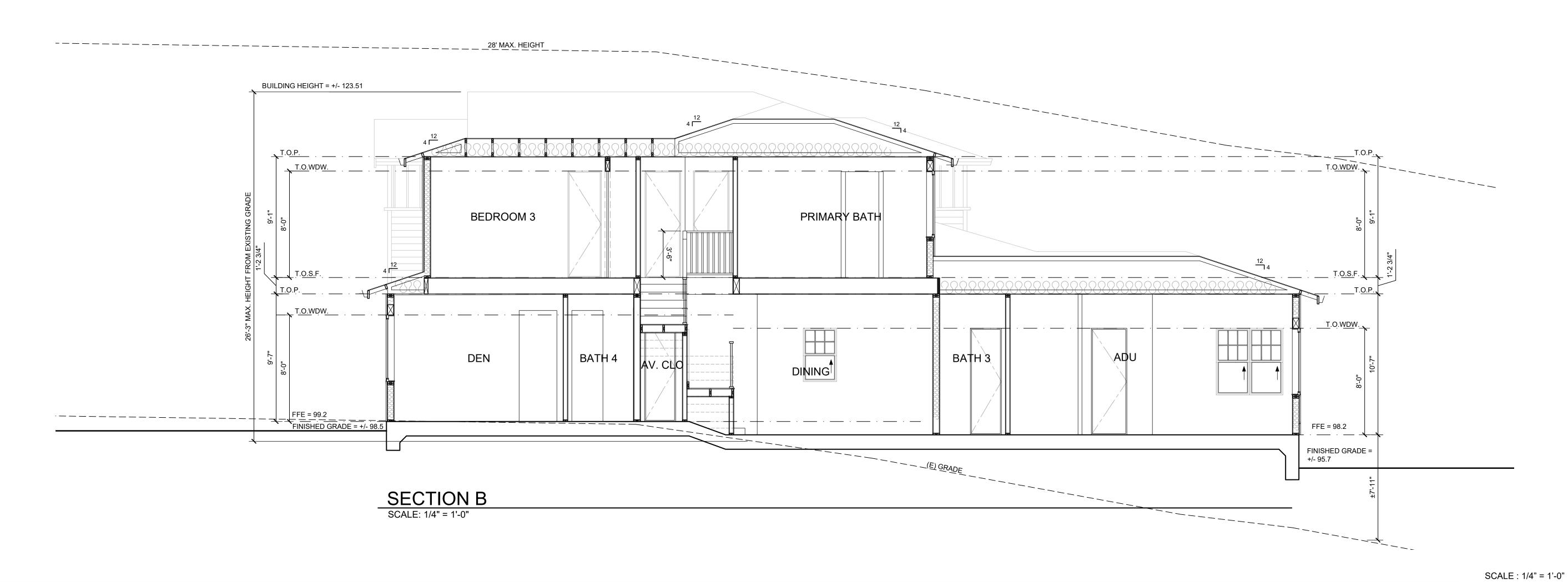
DATE 07-29-2022 JOB NO. 1641.008

5865 Owens Drive Pleasanton, CA 94588

925-251-7200

SCALE: 1/4" = 1'-0"





SECTIONS



# **EXTERIOR LIGHTING**

Incandescent

# P560110-020

#### **Boxwood**

Geometric details in Boxwood's design enhance Craftsman-inspired architecture. The one-light small wall lantern features clear seeded glass and finished in Architectural Bronze which completes the authentic style.

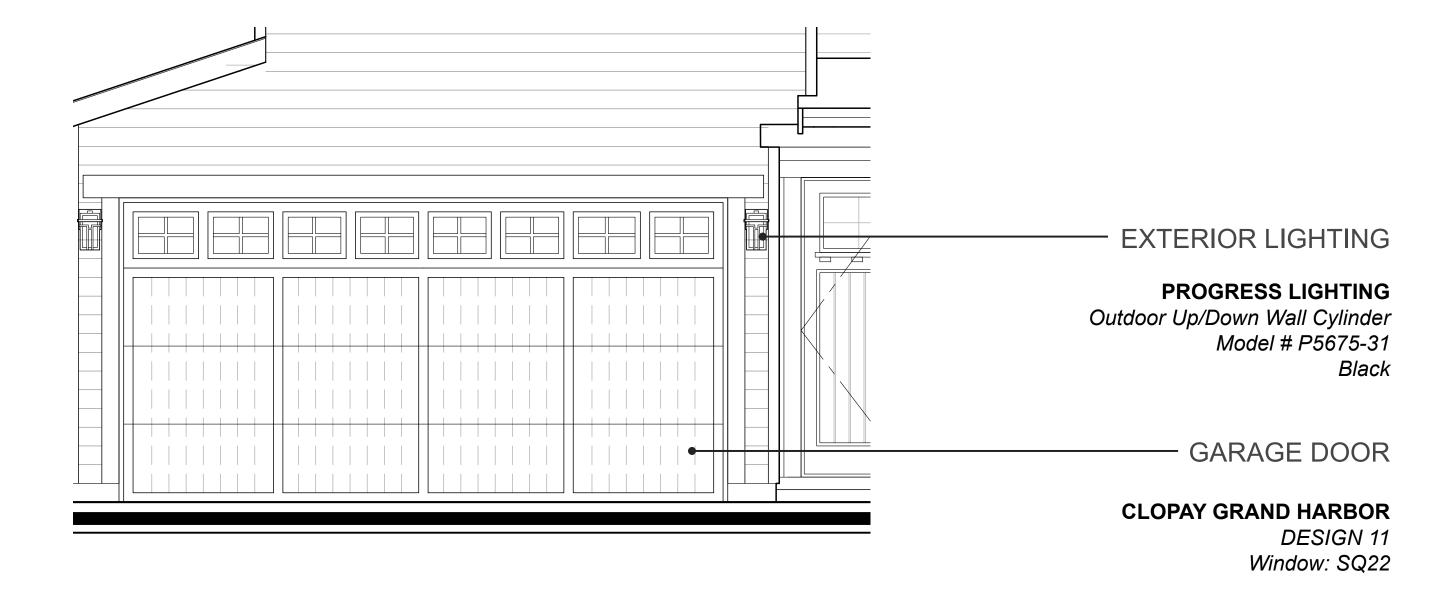
Width: 6-1/4" Height: 11-3/4" Depth: 6-1/4"

Category: Outdoor

Finish: Antique Bronze (plated)

Construction: Steel Construction

Glass/Shade: Clear Seeded Flat Square/Rectangular Flat Square/Rectangular





**UPPER BOARD & BATT SIDING** 



HORIZONTAL SIDING, GARAGE DOOR

TRIM COLOR
WINDOW TRIM, WOOD RAKE TRIM, EAVES,
GUTTERS



ACCENT COLOR FRONT DOOR

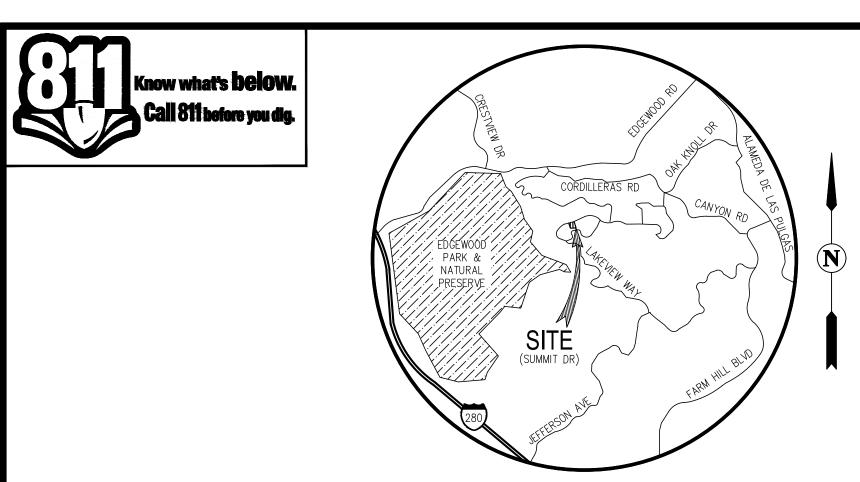


ROOF MATERIAL

COMPOSITION SHINGLE

#### **WILDFIRE PROTECTION NOTES**

- 1. EXTERIOR SIDING O/ 60 MIN. GRADE 'D' BLDG PAPER O/ 5/8" DENS GLASS FIREGUARD (INSTALL DIRECTLY O/ STUDS OR SHEATHING WHERE OCCURS) WHERE WILDFIRE PROTECTION IS REQUIRED.
- 2. FIRE RATED SEALANT WHERE WILDFIRE PROTECTION IS REQUIRED.
- 3. 1X6 T&G (U.O.N. SEE PLANS) O/ BLDG PAPER O/ 5/8" DENS GLASS FIREGUARD AT UNDERSIDE OF EXPOSED EAVES, ROOF EAVE SOFFITS, PORCH CEILINGS & FLOOR PROJECTIONS WHERE WILDFIRE PROTECTION IS REQUIRED.
- 4. ROOF MATERIAL & OVERHANG DIMENSIONS ARE AS FOLLOWS: MIN. CLASS 'A' ROOF MATERIAL O/ 72# CAP SHEET O/ 30# FELT O/ SOLID SHEATHING SHALL BE COMPOSITION SHINGLE 40 YEAR ROOFING BY GAF OR EQUAL.



VICINITY MAP

NOT TO SCALE

#### GENERAL NOTES

1. SITE ADDRESS: 29 WEST SUMMIT DR EMERALD HILLS, CA 94062

2. OWNER: THOMAS JAMES HOMES 255 SHORELINE DRIVE, SUITE 428

REDWOOD CITY, CA 94065 (650) 434-7966 KEN KING

CIVIL ENGINEER: CARLSON, BARBEE & GIBSON, INC.

2633 CAMINO RAMON, SUITE 350 SAN RAMON, CA 94583 (925) 866-0322

JUSTÍN R. DEKNOBLOUGH, R.C.E. 79604

4. SOILS ENGINEER: ROMIG ENGINEERS 1390 EL CAMINO REAL, 2ND FLOOR

SAN CARLOS, CA 94070 (650) - 591 - 5224JONATHAN J. FONE, R.C.E. 80875

5. ARCHITECT:

5865 OWENS DR PLEASANTON, CA 94588 (510) 272-2910

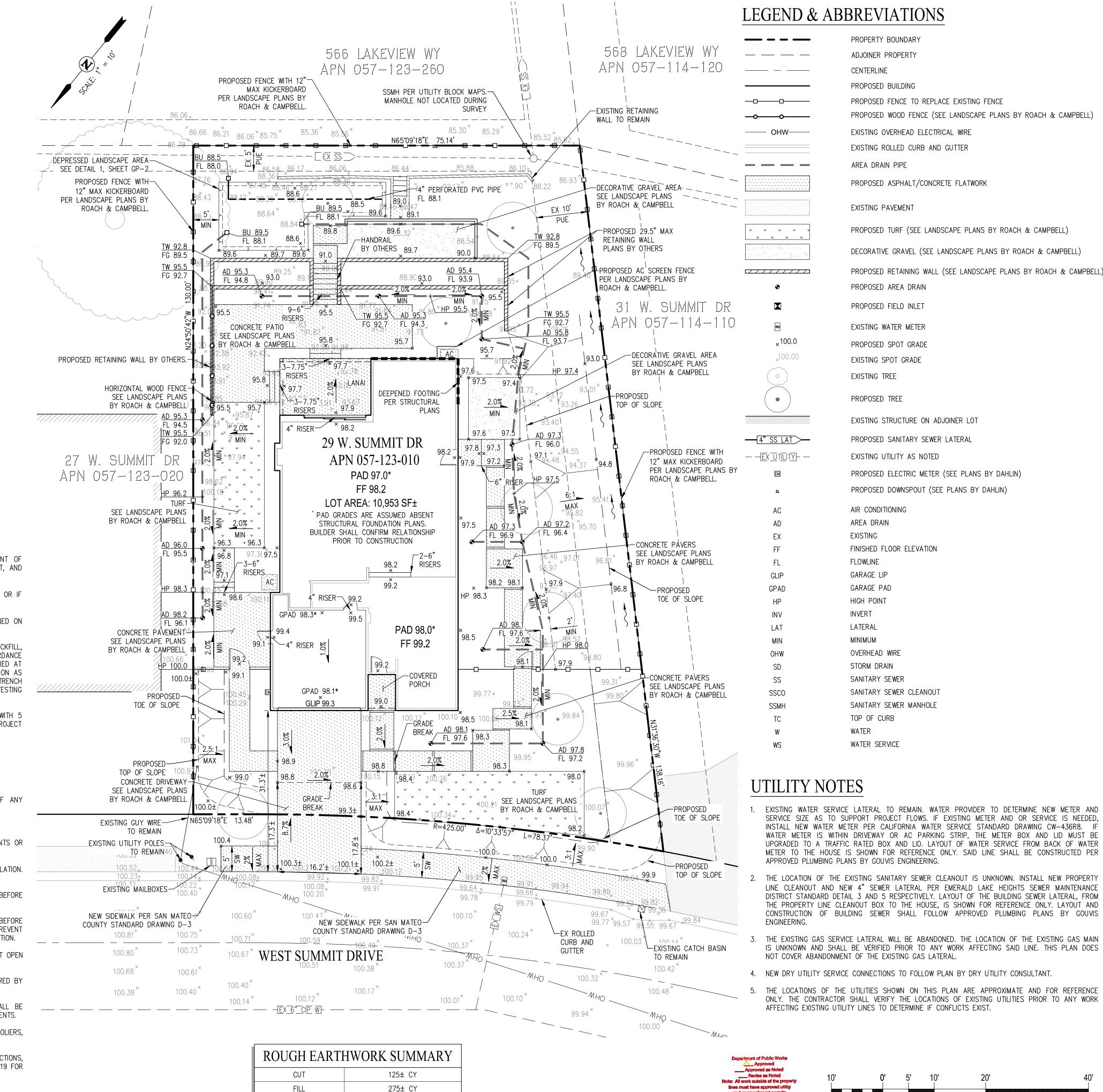
JAIME MATHERON 6. LANDSCAPE ARCHITECT: ROACH & CAMPBELL

111 SCRIPPS DR SACRAMENTO, CA 95823 (916) 501 - 4646AIMEE HENDRIE

- CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY AND CITY LAWS AND ORDINANCES, AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA, AND INDUSTRIAL ACCIDENT COMMISSION RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT, AND LABOR PERSONNEL.
- 8. THE CONTRACTOR SHALL CONTACT CARLSON, BARBEE AND GIBSON, INC. AT (925) 866-0322 IF DISCREPANCIES EXIST ON THESE PLANS OR IF THE WORK TO BE DONE, OR ANY MATTER RELATED THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS.
- 9. THE GEOTECHNICAL REPORT, NAMED GEOTECHNICAL INVESTIGATION (ROMIG PROJECT NO. 5366-48) DECEMBER 2, 2021, SHALL BE RETAINED ON THE CONSTRUCTION SITE.
- 10. EARTHWORK, SLAB AND FOUNDATION CONSTRUCTION, SLAB SUBGRADE AND NON-EXPANSIVE FILL PREPARATION, UTILITY TRENCH BACKFILL, RETAINING WALL BACKFILL AND DRAINAGE INSTALLATION, PAVEMENT CONSTRUCTION, AND SITE DRAINAGE SHOULD BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY ROMIG ENGINEERS, INC., DATED DECEMBER 2, 2021. ROMIG ENGINEERS SHOULD BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY EARTHWORK AND SHOULD OBSERVE AND TEST DURING EARTHWORK AND FOUNDATION CONSTRUCTION AS RECOMMENDED IN THE GEOTECHNICAL REPORT. ROMIG ENGINEERS SHOULD BE NOTIFIED AT LEAST 5 DAYS PRIOR TO EARTHWORK, TRENCH BACKFILL AND SUBGRADE PREPARATION WORK TO ALLOW TIME FOR SAMPLING OF ON-SITE SOIL AND LABORATORY COMPACTION CURVE TESTING TO BE PERFORMED PRIOR TO ON-SITE COMPACTION DENSITY TESTING.
- 11. ON-SITE SLOPES, AWAY FROM THE STRUCTURE, OF AT LEAST 2 PERCENT ARE RECOMMENDED FOR FLATWORK AND PAVEMENT AREAS WITH 5 PERCENT PREFERRED IN LANDSCAPE AREAS WITHIN 8 FEET OF THE STRUCTURES, WHERE POSSIBLE, AS DESCRIBED IN THE PROJECT GEOTECHNICAL INVESTIGATION REPORT.
- 12. CONTRACTOR SHALL FOLLOW ALL PROJECT ARBORIST RECOMMENDATIONS FOR GRADING WITHIN TREE PROTECTION AREAS.

#### COUNTY GENERAL NOTES

- ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITY CROSSINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION AFFECTION SAID LINES. CONTACT USA AT 811 AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATION.
- 2. ALL APPLICABLE WORK AND MATERIALS SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE SAN MATEO COUNTY STANDARDS.
- 3. THE CONTRACTOR SHALL RESTORE ALL DAMAGED, REMOVED OR OTHERWISE DISTURBED WALLS, FENCES, SERVICES, UTILITIES, IMPROVEMENTS OR FEATURES OF WHATEVER NATURE, DUE TO CONTRACTOR'S WORK.
- 4. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE INSTALLATION OF FACILITIES BY PG&E, PACIFIC BELL, AND CABLE TV INSTALLATION. VALVE BOXES AND MANHOLES, AND STRUCTURES TO BE SET TO GRADE IN CONCRETE AFTER PAVING.
- 5. ALL STREET MONUMENTS AND OTHER PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE COUNTY ENGINEER.
- 6. FOR LANE CLOSURES, THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL OF THE CITY ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE FLAGMEN, CONES OR BARRICADES, AS NECESSARY TO CONTROL TRAFFIC AND PREVENT HAZARDOUS CONDITIONS PER THE CALIFORNIA STANDARD PLANS, SPECIFICATIONS, AND MANUAL ON TRAFFIC CONTROL DEVICES, LATEST EDITION.
- 7. NO TRENCHES OR HOLES SHALL SHALL BE LEFT OPEN OVERNIGHT; USE STEEL PLATING OR HOT-MIX ASPHALT AS REQUIRED TO PROTECT OPEN TRENCHES OVERNIGHT. 8. THE CONTRACTOR SHALL CONTROL DUST AT ALL TIMES AND SWEET STREETS AS OFTEN AS NECESSARY DURING CONSTRUCTION AS REQUIRED BY
- THE COUNTY ENGINEER. 9. ALL REVISIONS TO THIS PLAN MUST BE REVIEWED AND APPROVED BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION AND SHALL BE
- ACCURATELY SHOWN ON REVISED PLANS STAMPED AND SIGNED BY CITY COUNTY ENGINEER PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.
- 10. ALL CONSTRUCTION STAKING FOR CURB, GUTTER, SIDEWALK, SANITARY SEWERS, STORM DRAINS, WATER LINES, FIRE HYDRANTS, ELECTROLIERS, ETC., SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.
- 11. THE GEOTECHNICAL PART OF CONSTRUCTION WORK, INCLUDING BUT NOT LIMITED TO, ALL THE EARTHWORK AND FOUNDATION CONSTRUCTIONS, MUST SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD. THE GEOTECHNICAL ENGINEER OF RECORD SHALL FOLLOW CBC2019 FOR ALL CONSTRUCTION OBSERVATION REQUIREMENTS.



NET

400± CY

F:\3085-000\SAN MATEO COUNTY\29 W. SUMMIT DRIVE\ACAD\GP\GP-01.E

**GRAPHIC SCALE** 

GE

ADING, I & UTILIT

SHEET NUMBER

GP-1

JOB NUMBER

3085-00

OF 4

8

PR

STANDARD STRUCTURES

DRIVEWAY WIDTHS AND CURB OPENINGS

SINGLE FAMILY RESIDENTIAL DWELLINGS

#### SAN MATEO COUNTY DEPARTMENT DRAWN BY: D.P PUBLIC WORKS CHECK BY: J.A.L. APPROVED BY: N.R.C. REVISED: 4/97 REDWOOD CITY CALIFORNIA SIDEWALK AREA ON BASIS OF SLOPE 1/4" PER FOOT -SLIP DOWELS PLACED 18" O.C. $\triangle$ CLASS 2 AGGREGATE BASE — SIDEWALK ACROSS DRIVEWAY-SEE STANDARD DRIVEWAY ∠ MIN. 6" CLASS 2 AGGREGATE BASE TYPICAL SECTION URBAN CURB, GUTTER AND SIDEWALK NOTE: OBSTRUCTIONS SUCH AS POLES, HYDRANTS, STREET SIGNS, UTILITY BOXES, STREET LIGHTS, ETC. SHALL BE LOCATED BEHIND THE SIDEWALK, UNLESS OTHERWISE SPECIFICALLY AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS. A CLEAR ZONE ALONG THE CURB AND SIDEWALK 18 INCHES IN WIDTH (MEASURED FROM THE FACE OF THE CURB) SHALL BE KEPT CLEAR AND OPEN FROM ALL OBSTRUCTIONS. IN ADDITION, AN AREA 3 FEET IN WIDTH ALONG THE SIDEWALK, EXCLUSIVE OF THE CURB WIDTH, SHALL BE KEPT CLEAR AND OPEN FROM ALL OBSTRUCTIONS IN COMPLIANCE WITH THE STATE BUILDING CODE (PART 2, TITLE 24, C.A.C.). #4 REBAR (NOT THRU EXPANSION JOINT)

**CURB AND GUTTER** 

CL 100.7

EXISTING STREET

REFERENCE ONLY

SECTION FOR

TYPICAL SECTIONS

3. PLACE 1/2" DIAMETER X 18" LONG DOWELS AT EXPANSION JOINTS AS SHOWN. 4. PLACE 1/2" THICK EXPANSION JOINTS FULL WIDTH 20' ON CENTER.

6. SUB-BASE MATERIALS WITHIN 30" OF SUBGRADE SHALL BE COMPACTED TO 95%.

D-3

5. CONSTRUCT MONOLITHIC CURB, GUTTER AND SIDEWALK UNLESS OTHERWISE

SPECIFICALLY AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS.

1. ALL CONCRETE TO BE CLASS B CONCRETE. 2. MINIMUM SIDEWALK THICKNESS = 4 INCHES PCC.

# **Construction Best Management Practices (BMPs)**

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

**Earthmoving** 

#### Clean Water. Healthy Community.



Non-Hazardous Materials ☐ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within

☐ Use (but don't overuse) reclaimed water for dust control.

**Hazardous Materials** ☐ Label all hazardous materials and hazardous wastes (such as

**Water Pollution** 

**Prevention Program** 

pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations. ☐ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast. ☐ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours. ☐ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

☐ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather. ☐ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.

☐ Clean or replace portable toilets, and inspect them frequently for leaks and spills. ☐ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base

materials, wood, gyp board, pipe, etc.) ☐ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

#### **Construction Entrances and Perimeter**

to clean up tracking.

☐ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.

☐ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets

#### **Equipment Management &**

vehicle and equipment parking and storage.

and equipment washing off site.

drains, or surface waters.

Spill Prevention and Control

until repairs are made.

litter, and/or rags).

cleanup materials properly.

☐ Perform major maintenance, repair jobs, and vehicle

☐ Do not clean vehicle or equipment onsite using soaps,

solvents, degreasers, or steam cleaning equipment.

☐ Keep spill cleanup materials (e.g., rags, absorbents and

☐ Inspect vehicles and equipment frequently for and

☐ Clean up spills or leaks immediately and dispose of

☐ Do not hose down surfaces where fluids have spilled.

☐ Sweep up spilled dry materials immediately. Do not

try to wash them away with water, or bury them.

☐ Report significant spills immediately. You are required

by law to report all significant releases of hazardous

materials, including oil. To report a spill: 1) Dial 911

or your local emergency response number, 2) Call the

Governor's Office of Emergency Services Warning

☐ Clean up spills on dirt areas by digging up and

properly disposing of contaminated soil.

Center, (800) 852-7550 (24 hours).

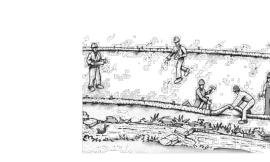
(A) LEFT DRIVEWAY PROFILE

NOT TO SCALE

Use dry cleanup methods (absorbent materials, cat

repair leaks promptly. Use drip pans to catch leaks

cat litter) available at the construction site at all times.



Designate an area, fitted with appropriate BMPs, for ☐ Schedule grading and excavation work during dry weather.

☐ Stabilize all denuded areas, install and maintain temporary erosion controls (such ☐ If refueling or vehicle maintenance must be done as erosion control fabric or bonded fiber onsite, work in a bermed area away from storm drains matrix) until vegetation is established. and over a drip pan or drop cloths big enough to collect ☐ Remove existing vegetation only when fluids. Recycle or dispose of fluids as hazardous waste. absolutely necessary, and seed or plant ☐ If vehicle or equipment cleaning must be done onsite, vegetation for erosion control on slopes clean with water only in a bermed area that will not or where construction is not immediately allow rinse water to run into gutters, streets, storm

> ☐ Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc. Keep excavated soil on site and transfer it

to dump trucks on site, not in the streets.

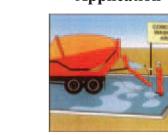
☐ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board: Unusual soil conditions, discoloration,

Abandoned underground tanks. Abandoned wells Buried barrels, debris, or trash.

Storm drain polluters may be liable for fines of up to \$10,000 per day!

or odor.

#### Concrete, Grout & Mortar Application



☐ Avoid paving and seal coating in wet

weather or when rain is forecast, to

prevent materials that have not cured

from contacting stormwater runoff.

☐ Collect and recycle or appropriately

Sawcutting & Asphalt/Concrete Removal

saw cutting. Use filter fabric, catch basin

inlet filters, or gravel bags to keep slurry

slurry and dispose of all waste as soon

as you are finished in one location or at

the end of each work day (whichever is

☐ If sawcut slurry enters a catch basin, clean

it up immediately.

☐ Protect nearby storm drain inlets when

out of the storm drain system.

☐ Shovel, abosorb, or vacuum saw-cut

asphalt concrete pavement.

seal, fog seal, etc.

☐ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.

☐ Wash out concrete equipment/trucks ☐ Cover storm drain inlets and manholes offsite or in a designated washout when applying seal coat, tack coat, slurry area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the dispose of excess abrasive gravel or sand. underlying soil or onto surrounding areas. Do NOT sweep or wash it into gutters. Let concrete harden and dispose of as ☐ Do not use water to wash down fresh

> ☐ When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

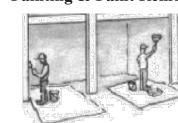


tarps all year-round.

☐ Protect stockpiled landscaping materials from wind and rain by storing them under ☐ Stack bagged material on pallets and

☐ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

#### **Painting & Paint Removal**



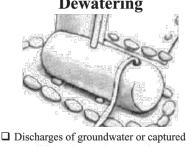
Painting Cleanup and Removal ☐ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream. ☐ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer.

Never pour paint down a storm drain. ☐ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste. ☐ Paint chips and dust from non-hazardous

swept up or collected in plastic drop cloths and disposed of as trash. ☐ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste Lead based paint removal requires a state-

certified contractor.

dry stripping and sand blasting may be



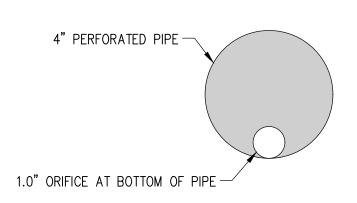
runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant. ☐ Divert run-on water from offsite away

from all disturbed areas. ☐ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.

☐ In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.

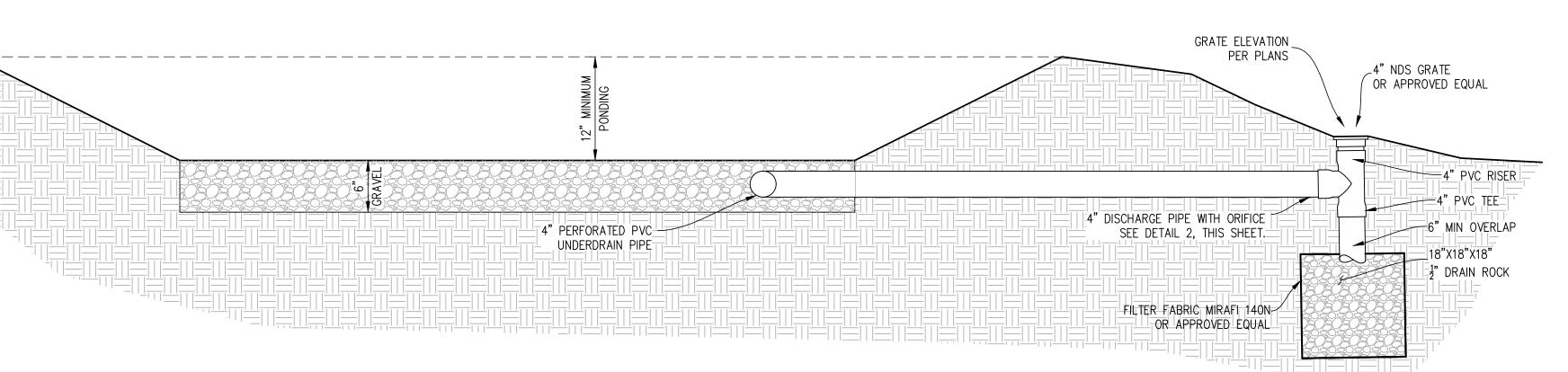
#### GRATE ELEVATION PER PLANS 4" NDS GRATE. OR APPROVED EQUAL 4" PVC RISER-4" PVC TEE-6" MIN OVERLAP-4" PERFORATED PIPE WITH 1.0" ORIFICE DRAINING TO BU 18"X18"X18" <sup>1</sup>/<sub>2</sub>" DRAIN ROCK FILTER FABRIC MIRAFI 140N OR APPROVED EQUAL

# (2) BUBBLE UP DRAIN DETAIL

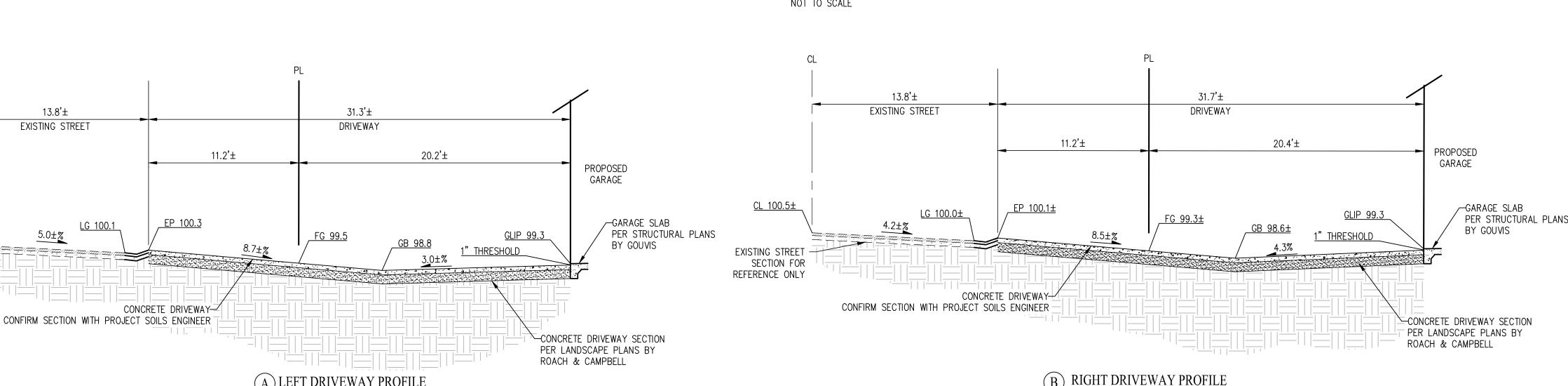


#### 4" PERFORATED PIPE WITH ORIFICE DETAIL

NOT TO SCALE



#### DEPRESSED LANDSCAPE AREA NOT TO SCALE



UNDERDRAIN PIPE

F:\3085-000\SAN MATEO COUNTY\29 W. SUMMIT DRIVE\ACAD\GP\GP-02.

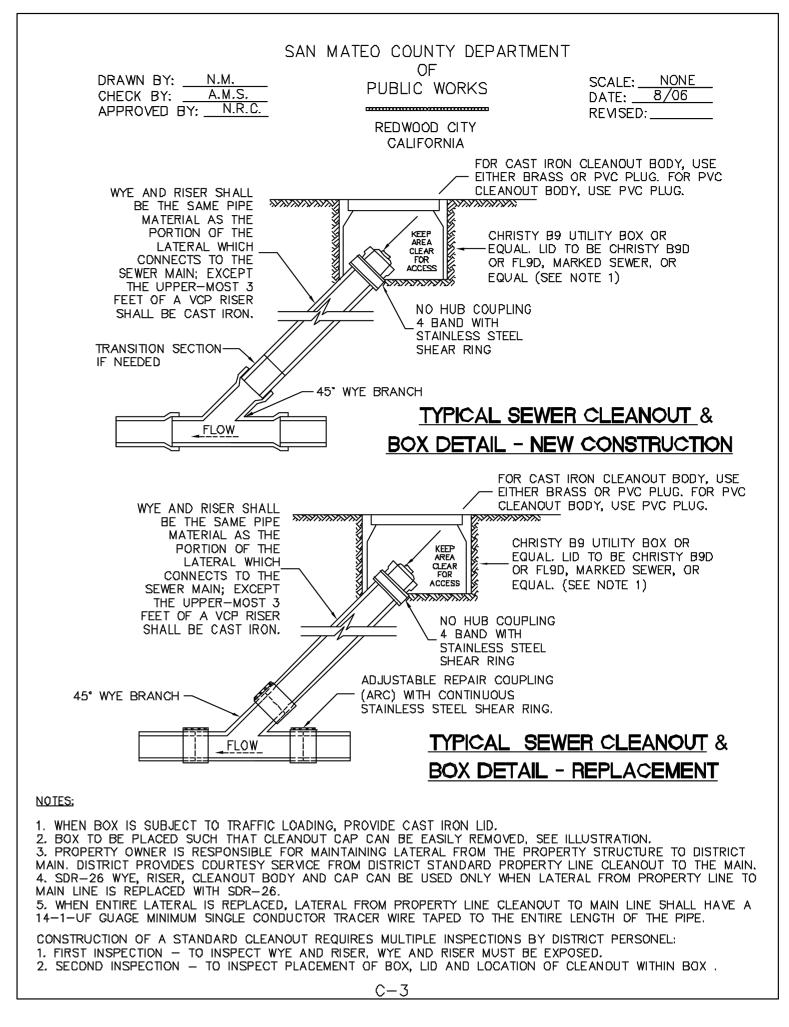
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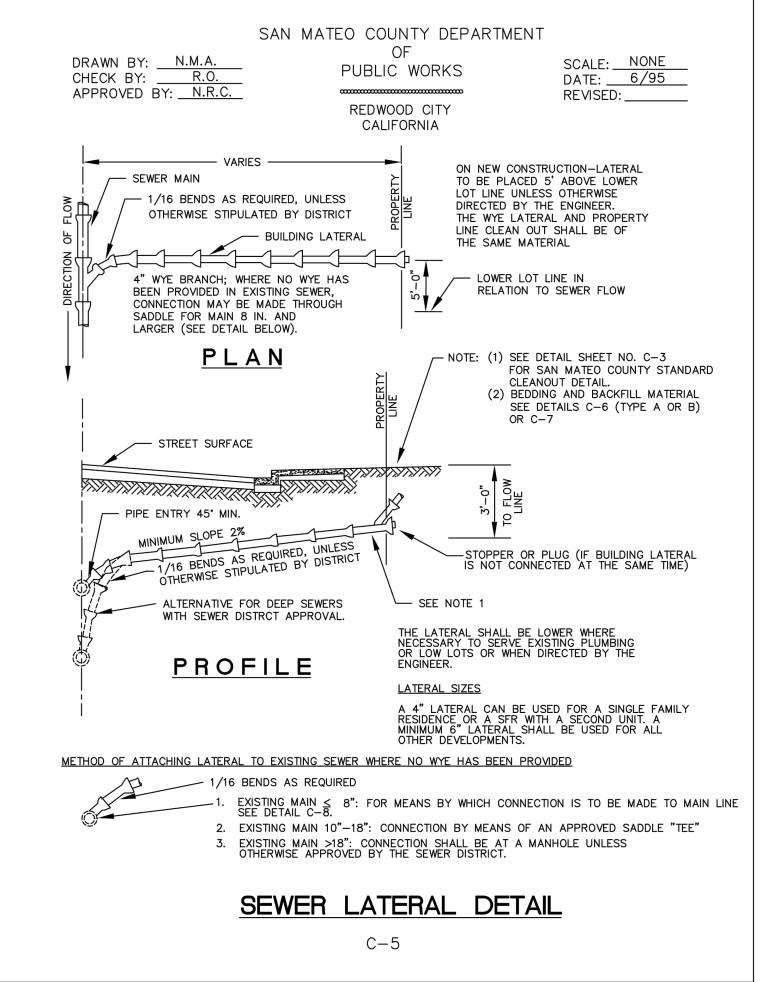
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SHEET NUMBER

JOB NUMBER 3085-00

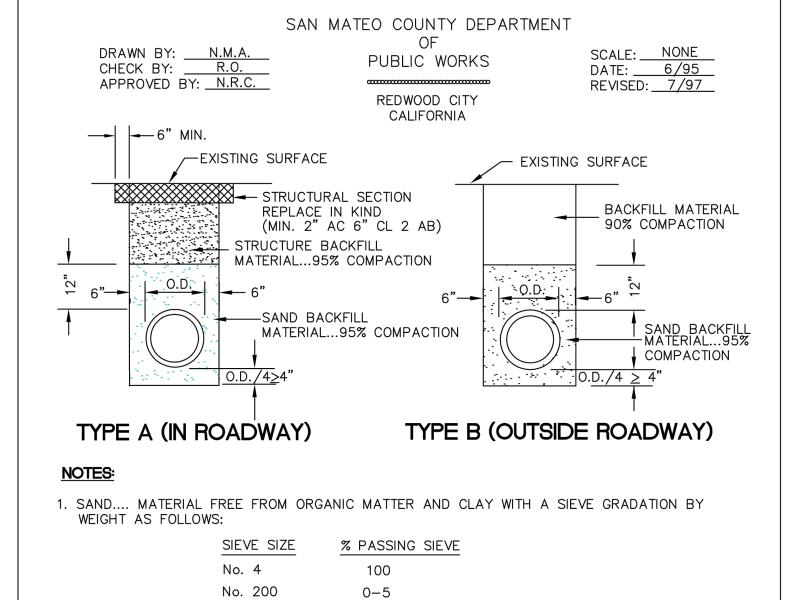






#### EMERALD LAKE HILLS SEWER MAINTENANCE DISTRICT GENERAL NOTES

- 1. A VIDEO INSPECTION OF THE SEWER MAIN (MANHOLE TO MANHOLE) WHERE THE NEW LATERAL CONNECTS TO THE SEWER DISTRICT MAIN AND/OR THE EXISTING CONNECTION IS TO BE REMOVED SHALL BE PERFORMED BY THE APPLICANT OR CONTRACTOR AND SUBMITTED TO THE SEWER DISTRICT FOR REVIEW AFTER LATERAL CONNECTION HAS BEEN MADE AND/OR THE MAIN REPAIRED. THE VIDEO INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS DESCRIBED IN THE SPECIAL PROVISIONS FOR CLOSED CIRCUIT TELEVISION INSPECTION OF SANITARY SEWER MAINS (A COPY CAN BE OBTAINED FROM OUR WEBSITE AT HTTP: //PUBLICWORKS.SMCGOV.ORG/SEWER-SERVICES). THE SEWER DISTRICT WILL REVIEW THE VIDEO INSPECTION TO DETERMINE WHETHER THE WORK PERFORMED IS ACCEPTABLE. ALL UNACCEPTABLE WORK SHALL BE CORRECTED TO THE SEWER DISTRICT'S SATISFACTION AT THE APPLICANT'S EXPENSE.
- 2. IF LOWEST FINISHED FLOOR ELEVATION OF THE PROPOSED MAIN RESIDENCE WILL BE LESS THAN ONE FOOT HIGHER THAN THE RIM ELEVATION OF THE NEAREST UPSTREAM SANITARY SEWER MANHOLE, A BACKFLOW PREVENTION OR OVERFLOW DEVICE MUST BE INSTALLED IMMEDIATELY UPSTREAM OF THE REQUIRED CLEANOUT NEAR THE PROPERTY LINE TO PREVENT BACKFLOW OF SEWAGE INTO BUILDING/PROPERTY.
- 3. SANITARY SEWER CONNECTION AND TESTING MUST BE MADE IN THE PRESENCE OF A SEWER DISTRACT REPRESENTATIVE.
- 4. THE SEWER DISTRICT OFFICE SHALL BE CONTACTED AT (650)-363-4100 TO SCHEDULE INSPECTIONS. INSPECTIONS MUST BE SCHEDULED A MINIMUM OF ONE WORKING DAY PRIOR TO THE INSPECTION. NO INSPECTIONS SHALL OCCUR ON FRIDAYS, WEEKENDS OR HOLIDAYS, UNLESS SPECIAL ARRANGEMENTS ARE MADE WITH THE SEWER DISTRICT.
- 5. CARE MUST BE TAKEN TO PROTECT THE EXISTING SEWER DISTRICT FACILITIES WHEN INSTALLING A NEW SEWER LATERAL. ANY DAMAGE TO THE SEWER DISTRICT FACILITIES SHALL BE REPAIRED BY THE APPLICANT PER THE SEWER DISTRICT STANDARD DETAILS AND AT THE APPLICANT'S EXPENSE. THE SEWER DISTRICT MUST BE NOTIFIED OF ANY DAMAGES TO THE SANITARY SEWER FACILITIES
- 6. IF THE NEW LATERAL WILL BE SUBJECTED TO TRAFFIC LOAD. A MINIMUM OF THREE FEET (3') OF COVER SHALL BE MAINTAINED OVER THE SEWER LATERAL BETWEEN THE PROPERTY LINE CLEANOUT AND SEWER MAIN AT ALL TIMES. THE 3 FEET OF COVER PROTECTS THE SEWER LATERAL FROM ACCIDENTAL EXPOSURE AND/OR DAMAGE. IF 3 FEET OF COVER CANNOT BE MAINTAINED OVER THE SEWER LATERAL, THEN DUCTILE IRON PIPE SHALL BE USED.
- 7. IF THE EXISTING LATERAL FROM THE PROPERTY LINE CLEANOUT TO THE SEWER DISTRICT MAIN IS TO BE ABANDONED AND A NEW LATERAL CONNECTION IS PROPOSED, THE EXISTING LATERAL CONNECTION SHALL BE REMOVED AND THE SEWER DISTRICT MAIN REPAIRED BY THE PROJECT APPLICANT. A MINIMUM OF 12 INCHES IN LENGTH OF THE ABANDONED LATERAL UPSTREAM FROM THE PREVIOUS CONNECTION POINT SHALL BE PLUGGED WITH CEMENT.
- IN THE MANHOLE WALL APPROPRIATELY SIZED FOR THE SEWER LATERAL PIPE. THE ANNULAR SPACE BETWEEN THE WALL AND PIPE SHALL BE PLUGGED WITH MORTAR CEMENT. AFTER THE ANNULAR SPACE HAS BEEN PLUGGED, THE INTERIOR OF THE ENTIRE MANHOLE SHALL BE COATED WITH AN APPROVED WATERPROOFING MATERIAL APPLIED PER THE MANUFACTURER'S RECOMMENDATIONS.
- 9. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL WORK SHALL BE PERFORMED TO FAIR OAKS SEWER MAINTENANCE DISTRICTS STANDARD SPECIFICATIONS. IF THERE ARE ANY DISCREPANCIES WITH THE INFORMATION ON THE PLANS AND CONDITIONS ENCOUNTERED IN THE FIELD, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF THE DISCREPANCIES.
- 10. THE PROPERTY LINE CLEANOUT MUST BE PLACED IN A LOCATION THAT PROVIDES EASY ACCESS FOR MAINTENANCE EQUIPMENT AND IS OUTSIDE OF ANY ENCLOSURES. A MINIMUM OF 6'IS REQUIRED BETWEEN THE PROPERTY LINE CLEANOUT AND STRUCTURE.



STANDARD TRENCH BACKFILL AND BEDDING DETAIL FOR PVC SEWER PIPE

2. STRUCTURE BACKFILL MATERIAL.... MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20

20-100

% PASSING SIEVE 100 35-100

3. BACKFILL MATERIAL.... MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING

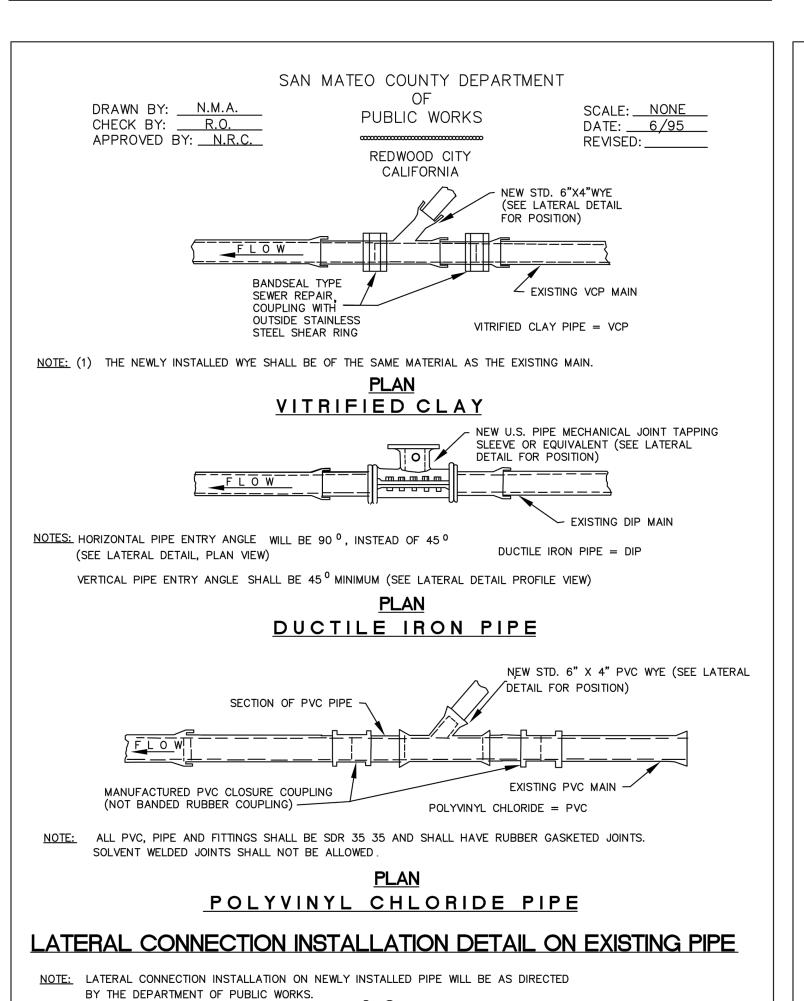
3 INCHES GREATEST DIMENSION, ORGANIC MATTER, OR OTHER UNSATISFACTORY MATERIAL.

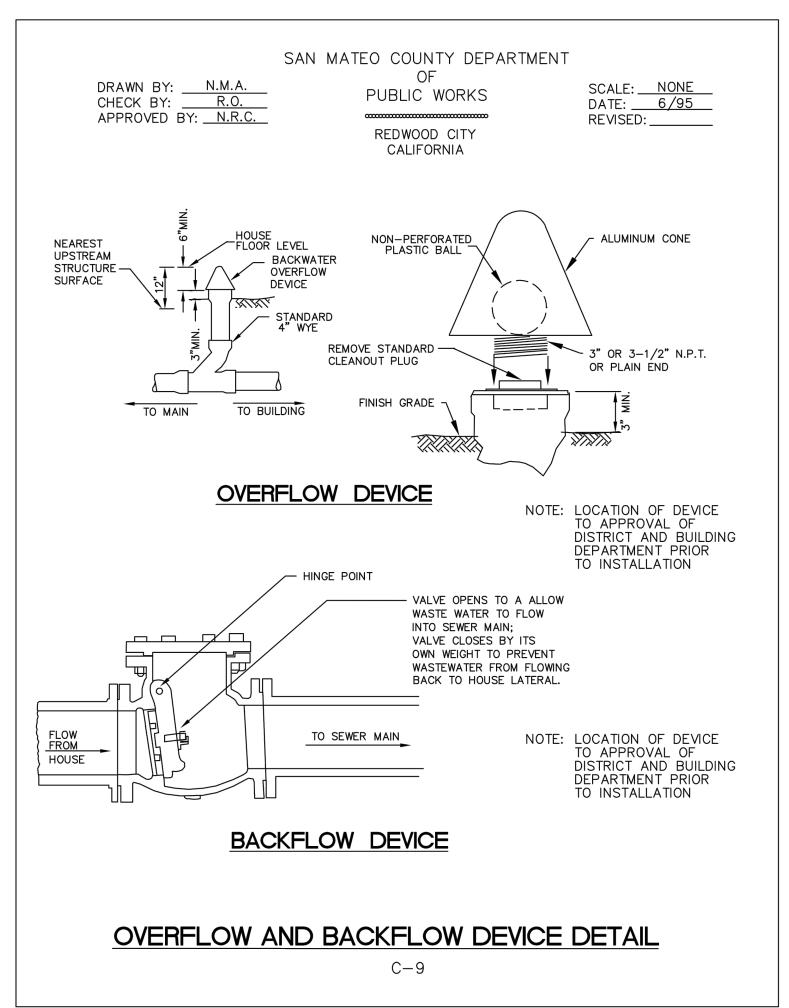
AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:

No. 4

No. 30

C-7





WORK UNDER THE PERMIT ISSUED WITH THIS PLAN SET IS LIMITED TO THE CONSTRUCTION OF RETAINING WALLS ONLY

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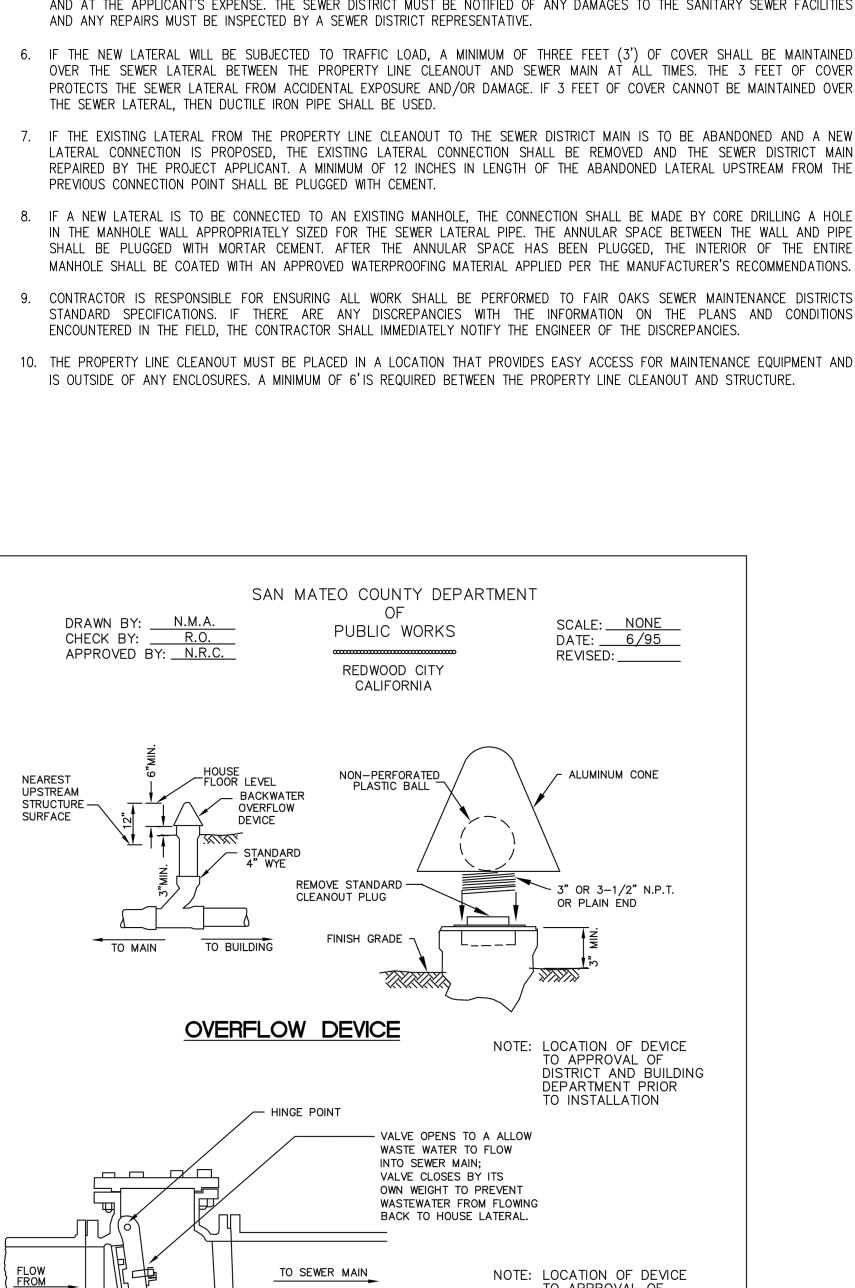
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SAN MATEO COUNTY DEPARTMENT

DRAWN BY: N.M.A.
CHECK BY: R.O.
APPROVED BY: N.R.C.

OF PUBLIC WORKS REDWOOD CITY CALIFORNIA

SCALE: NONE DATE: <u>6/95</u> REVISED: \_\_\_\_\_

#### SAN MATEO COUNTY SEWER AND SANITATION DISTRICTS STANDARD SPECIFICATIONS

#### **GENERAL NOTES**

- 1. ALL REFERENCES TO "DISTRICT" IN THESE GENERAL NOTES SHALL MEAN THE APPROPRIATE COUNTY SEWER OR SANITATION DISTRICT.
- 2. THE APPROVAL OF THESE PLANS BY THE DISTRICT SHALL BE INTERPRETED TO MEAN THAT THE SANITARY SEWER DESIGN SHOWN ON THESE PLANS MEETS THE DISTRICT'S STANDARDS. THE DISTRICT'S APPROVAL IN NO WAY GUARANTEES ANY OTHER ASPECT OF THIS PLAN OR ITS ACCURACY RELATIVE TO ACTUAL FIELD CONDITIONS.
- 3. THE CONTRACTOR SHALL CONTACT THE DISTRICT AT 363-4765 OR 363-4100 TWO (2) WOKING DAYS IN ADVANCE OF BEGINNING ANY SANITARY SEWER WORK. THE CONTRACTOR SHALL THEREAFTER KEEP THE INSPECTOR FOR THE DISTRICT INFORMED OF HIS SCHEDULE FOR SANITARY SEWER WORK.
- 4. ALL SANITARY SEWER WORK CONSTRUCTED WITHOUT INSPECTION BY THE DISTRICT SHALL BE REMOVED AND RECONSTRUCTED WITH INSPECTION.
- 5. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FORTY—EIGHT (48) HOURS IN ADVANCE OF BEGINNING ANY WORK.
- 6. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE BEGINNING ANY EXCAVATING.
- 7. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED BY THE COUNTY OR CITY BEFORE BEGINNING ANY SANITARY SEWER WORK.
- 8. UPON THE COMPLETION OF CONSTRUCTION A COMPLETE SET OF REPRODUCIBLE "AS-CONSTRUCTED" PLANS SHALL BE PROVIDED TO THE DISTRICT.
- 9. SANITARY SEWER SERVICE SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS ARE NECESSARY (E.G. PUMPS, ETC.) TO MAINTAIN THIS SERVICE DURING CONSTRUCTION.
- 10. PRIOR TO COMMENCING ANY SANITARY SEWER WORK IN OFF-SITE EASEMENTS THE CONTRACTOR SHALL PROVIDE THE DISTRICT WITH ADEQUATE EVIDENCE THAT ALL AFFECTED PROPERTY OWNERS (AND TENANTS WHERE APPLICABLE) WERE NOTIFIED WELL IN ADVANCE OF THE DATE WORK IN THESE EASEMENTS WAS TO BEGIN AND THAT THEY HAVE UPDATED THAT NOTICE IN A TIMELY MANNER WHEN THOSE DATES HAVE CHANGED.

C - 13

SAN MATEO COUNTY DEPARTMENT

DRAWN BY: N.M.A. CHECK BY: R.O. APPROVED BY: N.R.C.

OF PUBLIC WORKS REDWOOD CITY

SCALE: NONE DATE: <u>6/95</u> REVISED: <u>4/97</u>

#### SAN MATEO COUNTY SEWER AND SANITATION DISTRICTS STANDARD SPECIFICATIONS

CALIFORNIA

#### PIPE AND FITTINGS

#### POLYVINYL CHLORIDE PIPE (PVC)

- 1. ALL PIPE AND FITTINGS SHALL CONFORM TO ASTM SPECIFICATIONS D3034, SDR 35.
- 2. ALL JOINTS SHALL BE A BELL AND SPIGOT ASSEMBLY WITH ELASTOMERIC SEALING GASKETS. SEALING GASKETS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION D1869. SOLVENT CEMENT JOINTS ARE NOT PERMITTED.
- 3. ALL PIPE ENTERING OR LEAVING A CONCRETE STRUCTURE SHALL HAVE A RUBBER WATERSTOP GASKET ATTACHED TO IT. THE WATERSTOP GASKET SHALL CONFORM TO THE PIPE MANUFACTURER'S SPECIFICATIONS. THE WATERSTOP GASKET SHALL BE SEATED FIRMLY AROUND THE PIPE EXTERIOR AND BE CAST INTO THE CONCRETE STRUCTURE.
- 4. ALL PIPE JOINTS SHALL BE MADE USING MANUFACTURED PVC COUPLINGS. BAND TYPE COMPRESSION COUPLINGS ARE NOT PERMITTED.

#### DUCTILE IRON PIPE (DIP)

- 1. ALL PIPE SHALL BE THICKNESS CLASS 50 (FOUR INCH PIPE SHALL BE THICKNESS CLASS 51) IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.51. FITTINGS SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATION A21.10.
- 2. JOINTS SHALL BE PUSH-ON TYPE OR MECHANICAL JOINT TYPE IN ACCORDANCE WITH ANSI SPECIFICATION A21.11. RUBBER GASKETS FOR PUSH-ON JOINTS SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATIONS HEREIN.
- 3. PIPE AND FITTINGS SHALL HAVE A BITUMINOUS COATING OUTSIDE IN ACCORDANCE WITH ASTM SPECIFICATION A746-86, UNLESS OTHERWISE SPECIFIED HEREIN.
- 4. PIPE AND FITTINGS SHALL HAVE A 1/16" (ONE-SIXTEENTH INCH) CEMENT-MORTAR LINING WITH AN ASPHALTIC SEAL COAT.

#### VITRIFIED CLAY PIPE (VCP)

- 1. PIPE AND FITTINGS SHALL BE EXTRA STRENGTH, UNGLAZED, BELL AND SPIGOT, CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATION C700.
- 2. JOINTS SHALL BE A BELL AND SPIGOT ASSEMBLY WITH FACTORY INSTALLED FLEXIBLE COMPRESSSION TYPE GASKETS MADE OF PLASTICIZED POLYVINYL OR POLYURETHANE CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATIONS C425. BAND TYPE COUPLINGS ARE NOT ALLOW.

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SHEET NUMBER GP-4

JOB NUMBER 3085-00

OF 4

WORK UNDER THE PERMIT ISSUED WITH THIS PLAN SET IS LIMITED TO THE CONSTRUCTION OF RETAINING WALLS ONLY



#### GENERAL NOTES

SITE ADDRESS:

29 WEST SUMMIT DRIVE EMERALD HILLS, CA 94062

2. OWNER/DEVELOPER (DISCHARGER):

THOMAS JAMES HOMES, LLC 255 SHORELINE DRIVE SUITE 428 REDWOOD CITY, CA 94065

(650) 434-7966 ŘEN KING

3.. CIVIL ENGINEER:

CARLSON, BARBEE & GIBSON, INC. 2633 CAMINO RAMON, SUITE 350 SAN RAMON, CA 94583 (925) 866-0322 JUSTIN R. DEKNOBLOUGH, R.C.E. 79604 564 LAKEVIEW WY

TREE PROTECTION FENCE (TYP)
PER TREE PROTECTION PLAN

27 W. SUMMIT ÓR

APN 057-123-020

BY OTHERS.

0.2'±-1.5'± CONCRETE RET WALL ×

0.1'±-2.3'±-CONCRETE ) RET WALL

0.3'±-2.8'±

CONCRETE RET WALL

WOOD FENCE

 $0.3'\pm -2.8'\pm -$ WOOD FENCE-SSMH PER UTILITY BLOCK MAPS.-CONCRETE MANHOLE NOT LOCATED DURING RET WALL

94.06 × 93.87 × 93.9 93.67

PLANTER :

566 LAKEVIEW WY

APN 057-123-260

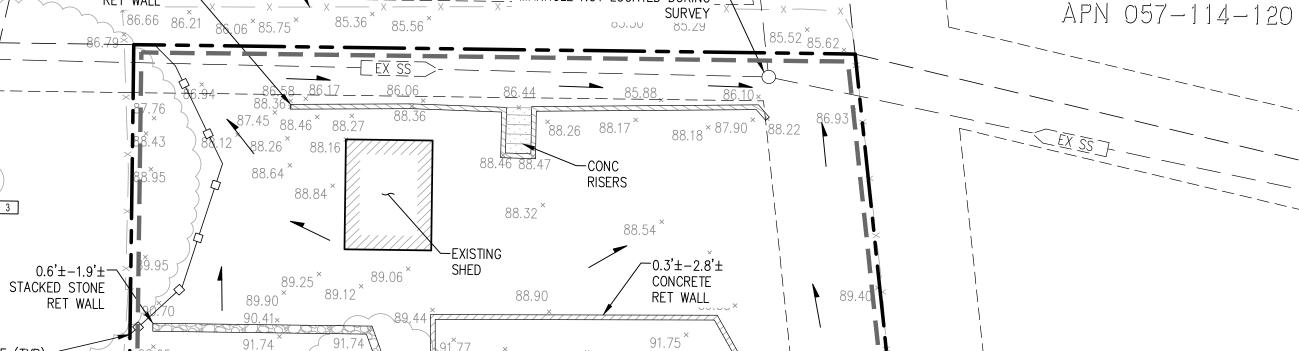
91.81

568 LAKEVIEW WY

\_\_WOOD FENCE

31 W. SUMMIT DR

APN 057-114-110



91.68 <sup>×</sup>

29 W. SUMMIT DR

APN 057-123-010

EXISTING RESIDENCE AND ASSOCIATED

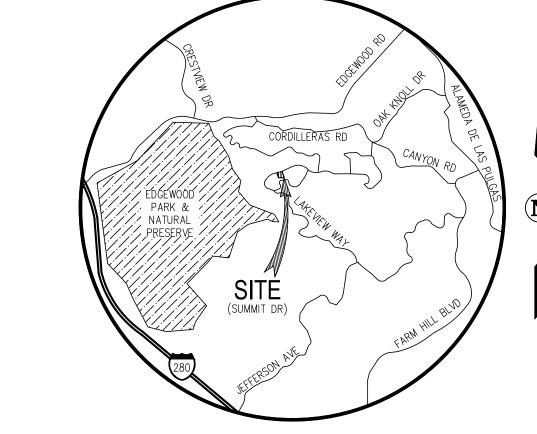
IMPROVEMENTS TO BE DEMOLISHED

91.95 ^

194.48 \ 194.37

96.81

91.92 <sup>×</sup>



VICINITY MAP NOT TO SCALE

## LEGEND

PROPERTY BOUNDARY ADJOINER PROPERTY LINE EXISTING FENCE

TREE PROTECTION FENCE \_\_\_\_ 1

TREE NUMBER PER ARBORIST REPORT (TO REMAIN) TREE NUMBER PER ARBORIST REPORT (TO BE REMOVED) >< FIBER ROLL - (SE-5)

DIRECTION OF EXISTING RUNOFF FLOW

**KNOWN LOCATIONS\*** 

STABILIZED CONSTRUCTION ENTRANCE/EXIT - (TC-1)

PROJECT SUPERINTENDENT TO MARK

MATERIALS AND EQUIPMENT STORAGE AREA (WM-1 - WM-3\*\*)

SANITARY FACILITY (WM-9\*\*)

- \* THE MATERIALS AND EQUIPMENT STORAGE AREA AND SANITARY FACILITY WILL BE PLACED AT THE PROJECT SUPERINTENDENT'S DISCRETION AND ARE SUBJECT TO CHANGE.
- \*\* DENOTES SECTION RELATED TO BMP IN THE CASQA BMP HANDBOOK.

#### CURRENT CASQA STORMWATER BMP CONSTRUCTION HANDBOOK DETAILS

SCHEDULING WATER CONSERVATION PRACTICES VEHICLE & EQUIPMENT CLEANING VEHICLE & EQUIPMENT FUELING VEHICLE & EQUIPMENT MAINTENANCE CONCRETE CURING CONCRETE FINISHING SILT FENCE FIBER ROLLS

STABILIZED CONSTRUCTION ENTRANCE/EXIT WIND EROSION CONTROL MATERIAL DELIVERY & STORAGE

MATERIAL USE STOCKPILE MANAGEMENT CONCRETE WASTE MANAGEMENT SANITARY/SEPTIC WASTE MANAGEMENT

NOT ALL DETAILS LISTED MAY BE APPLICABLE FOR THIS SITE.

#### SHEET INDEX

ECP-1 EROSION CONTROL PLAN

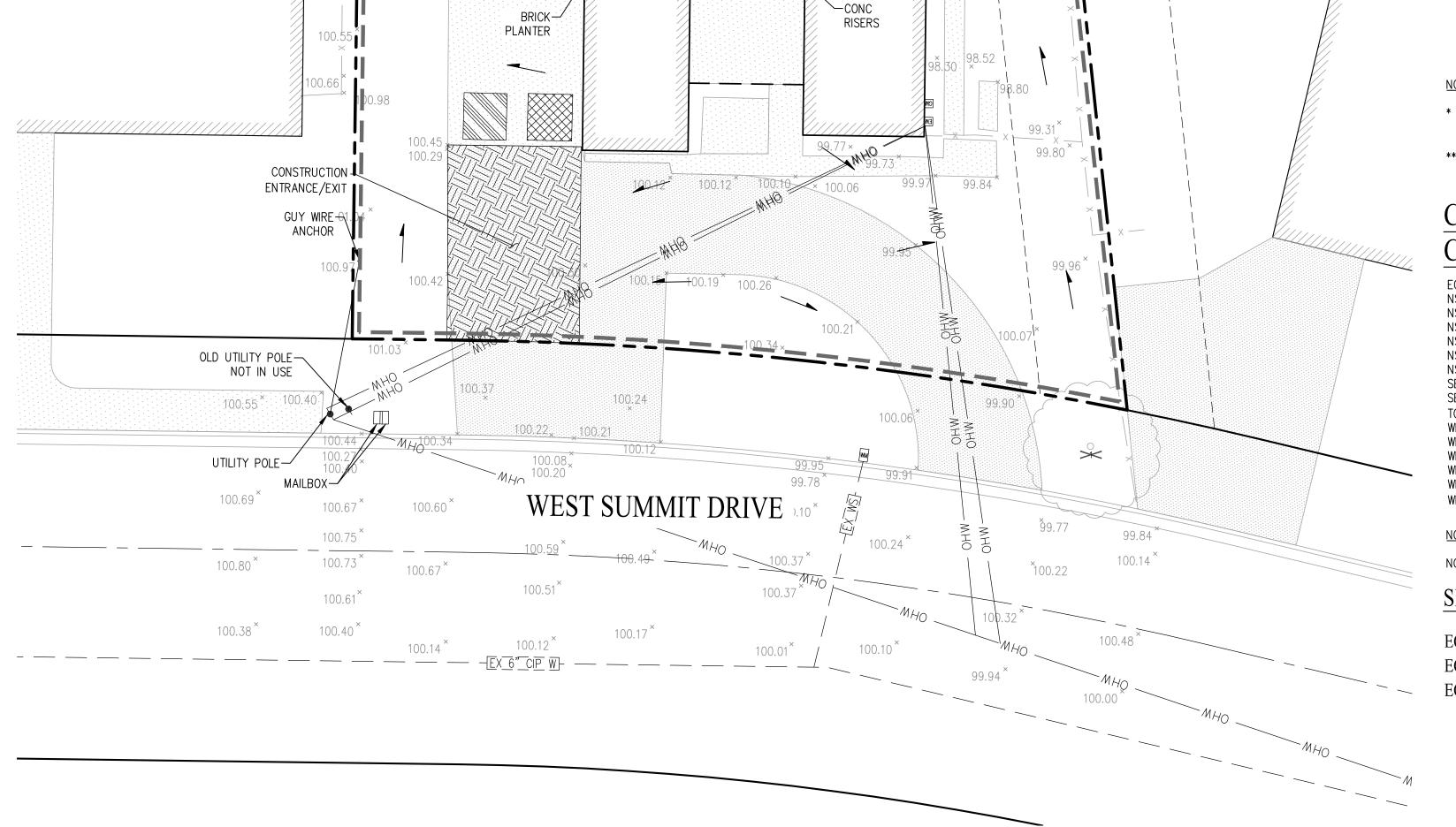
EROSION CONTROL NOTES & DETAILS

**EROSION CONTROL & CONSTRUCTION BMP** 

**GRAPHIC SCALE** 

EXISTING TREES TO BE REMOVED				
TREE NUMBER COMMON NAME		DBH (IN)		
1	INCENSE CEDAR	9.0		
_	DEAD	4.7		

EXISTING TREES TO REMAIN					
TREE COMMON NAME		DBH (IN)			
3	COAST REDWOOD	45.0			



PI CONTROL

**EROSION** 

SHEET NUMBER OF JOB NUMBER

3085-000

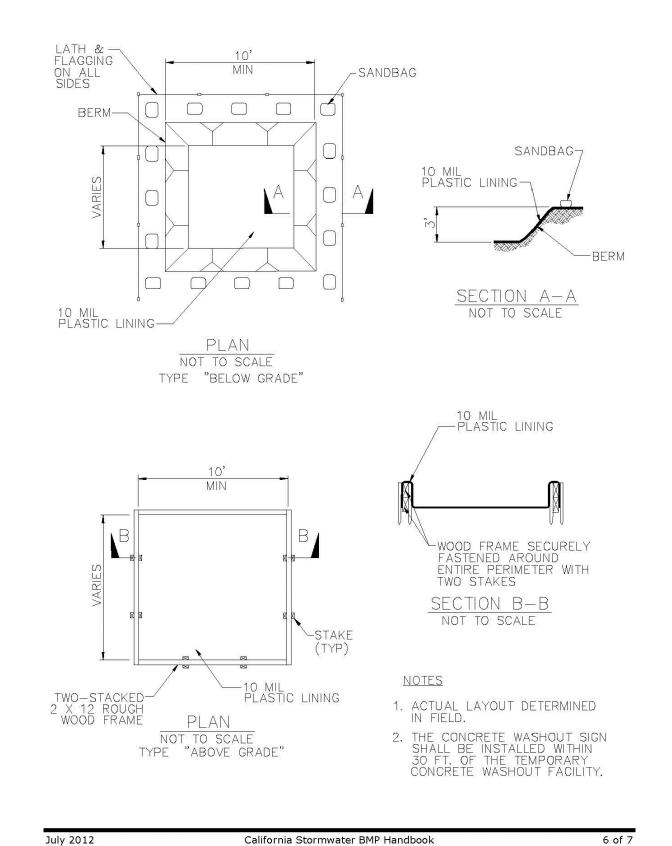


#### BEST MANAGEMENT PRACTICE NOTES

- 1. IT SHALL BE THE OWNER'S DUTY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO ENSURE THE ENTIRE SITE IS IN COMPLIANCE WITH LOCAL ORDINANCES PROTECTION THE CASQA CONSTRUCTION BMP GUIDANCE HANDBOOK.
- 2. THIS PLAN IS INTENDED TO BE UTILIZED FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY AND IS NOT TO BE UTILIZED FOR FINAL ELEVATIONS OR PERMANENT IMPROVEMENTS.
- 3. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN AS NECESSARY IN THE FIELD. DOCUMENT AND REPORT ANY FIELD CHANGES AND NOTIFY THE CITY OR COUNTY REPRESENTATIVE OF THE FIELD CHANGES.
- 4. ALL MAINTENANCE AND OPERATION REQUIREMENTS SHALL FOLLOW THE CASQA CONSTRUCTION BMP GUIDANCE HANDBOOK.
- 5. THE CONTRACTOR OR OWNER SHALL EFFECT AND MAINTAIN PRECAUTIONARY MEASURES NECESSARY TO PROTECT ADJACENT WATERCOURSES AND PUBLIC OR PRIVATE PROPERTY FROM DAMAGE BY EROSION, FLOODING AND DEPOSITION OF MUD OR DEBRIS ORIGINATING FROM THE SITE.
- 6. THE CONTRACTOR OR OWNER IS RESPONSIBLE FOR ALL ASPECTS OF EROSION CONTROL FOR THE PROJECT AND SHALL INSTALL AND MAINTAIN ANY DEVICES AND MEASURES NECESSARY TO THE SATISFACTION OF THE CITY OR COUNTY ENGINEER.
- 7. THE CONTRACTOR OR OWNER SHALL ESTABLISH AND MAINTAIN EFFECTIVE BMP PERIMETER CONTROLS AND STABILIZED ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES FROM THE SITE YEAR-ROUND.
- 8. EROSION CONTROL MEASURES WILL BE PROPERLY IN PLACE YEAR-ROUND. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE DAY RAIN PROBABILITY EXCEEDS 50 PERCENT.
- 9. INSPECTIONS AND OBSERVATIONS SHALL OCCUR WEEKLY, AND AT LEAST ONCE EACH 24-HOUR PERIOD DURING EXTENDED STORM EVENTS, TO IDENTIFY AND RECORD BMPS THAT NEED MAINTENANCE TO OPERATE EFFECTIVELY, THAT HAVE FAILED OR THAT COULD FAIL TO OPERATE AS INTENDED.
- 10. DISCHARGERS SHALL IMPLEMENT MEASURES TO CONTROL ALL NON-STORMWATER DISCHARGES DURING CONSTRUCTION.
- 11. DISCHARGERS SHALL IMPLEMENT EFFECTIVE WIND EROSION CONTROL.
- 12. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SITE WORK. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THE ENTRANCE. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY.
- 13. APPLY GRAVEL CONSTRUCTION ENTRANCE MATERIAL WITHIN MATERIAL STORAGE AREA.
- 14. APPLY GRAVEL CONSTRUCTION ENTRANCE MATERIAL WITHIN THE VEHICLE STORAGE AREA.
- 15. PLACE ALL EQUIPMENT OR VEHICLES, WHICH ARE TO BE FUELED, MAINTAINED AND STORED IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPS.
- 16. IMPLEMENT BMPS TO PREVENT THE OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS.
- 17. PAVED STREETS WILL BE MONITORED DAILY AND FREQUENTLY CLEANED. STREETS WILL ALSO BE SWEPT ON AT LEAST A WEEKLY BASIS OR MORE OFTEN, AS NEEDED, TO MAINTAIN CONTINUOUS LITTER AND TRACKING CONTROL. STREET WASHING
- 18. TRASH RECEPTACLES WILL BE PROVIDED THROUGHOUT THE SITE AND UTILIZED BY ALL WORKERS FOR MISCELLANEOUS TRASH. SITE REFUSE WILL BE PICKED UP ON A WEEKLY BASIS OR AS OFTEN AS NECESSARY IN ORDER TO KEEP THE SITE CLEAN.
- 19. COVER AND BERM LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E. SOIL, SPOILS, AGGREGATE, FLY-ASH, STUCCO, HYDRATED LIME, ETC.).
- 20. CONTAIN AND SECURELY PROTECT STOCKPILED WASTE MATERIAL FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING
- 21. EXCAVATING, FILLING, BACKFILLING AND GRADING WORK SHALL NOT BE PERFORMED DURING UNFAVORABLE WEATHER CONDITIONS.
- 22. DISCHARGERS SHALL PROVIDE EFFECTIVE SOIL COVER FOR INACTIVE AREAS AND ALL FINISHED SLOPES, OPEN SPACE, UTILITY BACKFILL AND COMPLETED LOTS. INACTIVE AREAS OF CONSTRUCTION ARE AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE RE-DISTURBED FOR AT LEAST 14 DAYS.
- 23. SLOPES WILL BE GRADED SO THAT WATER IS DIRECTED AWAY FROM THE SLOPE FACES AT THE END OF EACH WORKING DAY WHEN A CHANCE OF RAIN IS FORECAST.
- 24. ALL RILLS, GULLIES, ETC. WILL BE PROMPTLY REPAIRED AS PRACTICAL BY REGRADING OR INSTALLATION OF SOIL, GRAVEL OR
- 25. ALL DRAIN INLETS WILL BE PROTECTED AS THEY ARE COMPLETED, DURING THE ENTIRE COURSE OF CONSTRUCTION.
- 26. IF SEDIMENT BASINS ARE TO BE USED, DISCHARGERS SHALL, AT A MINIMUM DESIGN SEDIMENT BASINS ACCORDING TO THE METHOD PROVIDED IN CASQA'S CONSTRUCTION BMP GUIDANCE HANDBOOK.
- 27. AFTER EACH RAINSTORM, SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS, FIBER ROLLS, SILT FENCES AND SILT SACKS. SEDIMENT TRAPS/BASINS SHOULD ALSO BE OBSERVED AND PUMPED DRY AS NECESSARY TO ASSURE PROPER FUNCTION AND CAPACITY.
- 28. INTERIOR FIBER ROLLS MAY BE REMOVED AS THE AREA COMES UNDER CONSTRUCTION FOR FINISH GRADING AND LANDSCAPING INSTALLATION. PERIMETER PROTECTION SHOULD BE LEFT IN PLACE YEAR-ROUND DURING CONSTRUCTION OR
- 29. AT A MINIMUM, TREE PROTECTION FENCING IS TO BE ORANGE CONSTRUCTION FENCING AND PLACED AROUND TREE TO CREATE A TREE PROTECTION ZONE AND SHALL BE INSTALLED AROUND TREES THAT ARE TO REMAIN. IF PROJECT ARBORIST REQUIRES ADDITIONAL PROTECTIONS, THE CONTRACTOR SHALL FOLLOW AND INSTALL SAID PROTECTIONS.

#### **Concrete Waste Management**

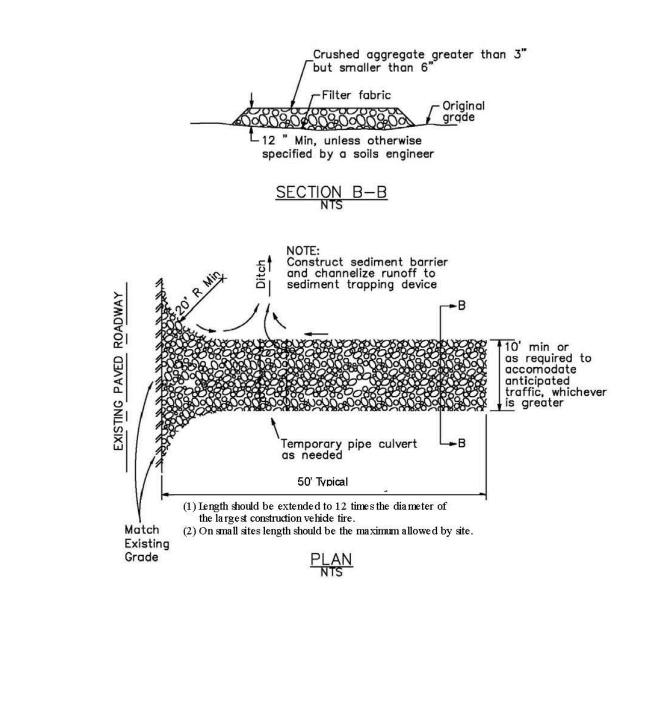
**WM-8** 



Construction

www.casqa.org

#### **Stabilized Construction Entrance/Exit TC-1**

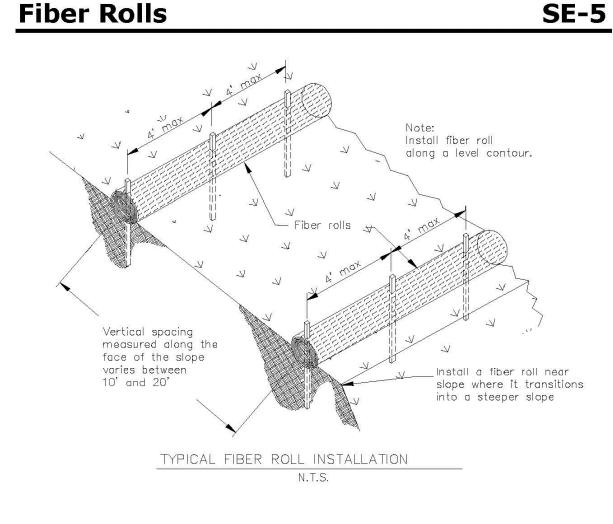


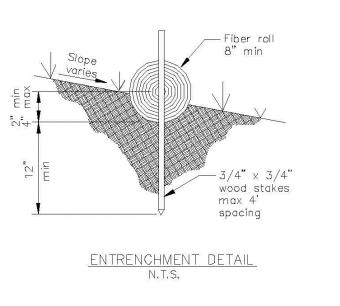
California Stormwater BMP Handbook

Construction

www.casqa.org

**Fiber Rolls** 





California Stormwater BMP Handbook Portal Construction www.casqa.org

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OSIO ER

SHEET NUMBER JOB NUMBER





# **Construction Best Management Practices (BMPs)**

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

#### **Materials & Waste Management**



**Non-Hazardous Materials** ☐ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within

☐ Use (but don't overuse) reclaimed water for dust control.

- **Hazardous Materials** ☐ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in
- accordance with city, county, state and federal regulations. ☐ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ☐ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours. ☐ Arrange for appropriate disposal of all hazardous wastes.

#### Waste Management

- ☐ Cover waste disposal containers securely with tarps at the end of
- every work day and during wet weather. ☐ Check waste disposal containers frequently for leaks and to make
- sure they are not overfilled. Never hose down a dumpster on the construction site.
- ☐ Clean or replace portable toilets, and inspect them frequently for leaks and spills. ☐ Dispose of all wastes and debris properly. Recycle materials and
- wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ☐ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

#### **Construction Entrances and Perimeter**

- ☐ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ☐ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

#### **Equipment Management & Spill Control**

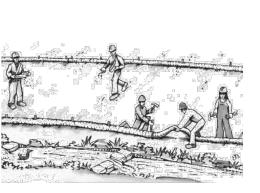


- ☐ Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ☐ Perform major maintenance, repair jobs, and vehicle and equipment washing off site. ☐ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains
- and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste. ☐ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm
- drains, or surface waters. ☐ Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

#### Spill Prevention and Control

- ☐ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ☐ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ☐ Clean up spills or leaks immediately and dispose of cleanup materials properly. ☐ Do not hose down surfaces where fluids have spilled.
- Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ☐ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- ☐ Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ☐ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

#### **Earthmoving**



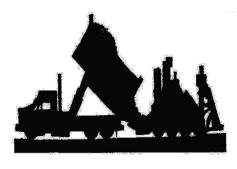
#### ☐ Schedule grading and excavation work during dry weather.

- ☐ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ☐ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes
- ☐ Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- ☐ Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

#### **Contaminated Soils**

- ☐ If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
- Unusual soil conditions, discoloration,
- Abandoned underground tanks.
- Abandoned wells - Buried barrels, debris, or trash.

#### Paving/Asphalt Work



seal, fog seal, etc.

☐ Do not use water to wash down fresh

☐ Protect nearby storm drain inlets when

out of the storm drain system.

it up immediately.

☐ Shovel, abosorb, or vacuum saw-cut

saw cutting. Use filter fabric, catch basin

inlet filters, or gravel bags to keep slurry

slurry and dispose of all waste as soon

as you are finished in one location or at

the end of each work day (whichever is

☐ If sawcut slurry enters a catch basin, clean

asphalt concrete pavement.

- ☐ Store concrete, grout, and mortar away Avoid paving and seal coating in wet from storm drains or waterways, and on weather or when rain is forecast, to pallets under cover to protect them from prevent materials that have not cured rain, runoff, and wind. from contacting stormwater runoff.
- ☐ Wash out concrete equipment/trucks Cover storm drain inlets and manholes offsite or in a designated washout when applying seal coat, tack coat, slurry area, where the water will flow into a temporary waste pit, and in a manner Collect and recycle or appropriately that will prevent leaching into the dispose of excess abrasive gravel or sand. underlying soil or onto surrounding areas. Do NOT sweep or wash it into gutters. Let concrete harden and dispose of as

Concrete, Grout & Mortar

☐ When washing exposed aggregate, Sawcutting & Asphalt/Concrete Removal drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or

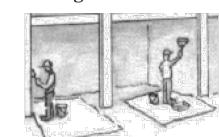
and disposed of properly.

# Landscaping

drain onto a bermed surface to be pumped

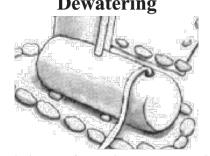


- ☐ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- ☐ Stack bagged material on pallets and ☐ Discontinue application of any erodible
- landscape material within 2 days before a forecast rain event or during wet weather.



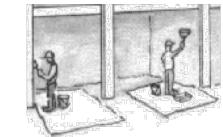
#### **Painting Cleanup and Removal** ☐ Never clean brushes or rinse paint

- drain, or stream.
- Never pour paint down a storm drain. the extent possible and clean with thinner
- excess liquids as hazardous waste. dry stripping and sand blasting may be swept up or collected in plastic drop



- runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- ☐ Divert run-on water from offsite away
- ☐ In areas of known or suspected contamination, call your local agency to to be collected and hauled off-site for

#### **Painting & Paint Removal**



- containers into a street, gutter, storm
- ☐ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer.
- ☐ For oil-based paints, paint out brushes to or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of
- ☐ Paint chips and dust from non-hazardous cloths and disposed of as trash.
- ☐ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a statecertified contractor.

# **Dewatering**

- ☐ Discharges of groundwater or captured
- from all disturbed areas.
- ☐ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- determine whether the ground water must be tested. Pumped groundwater may need treatment and proper disposal.

Storm drain polluters may be liable for fines of up to \$10,000 per day!

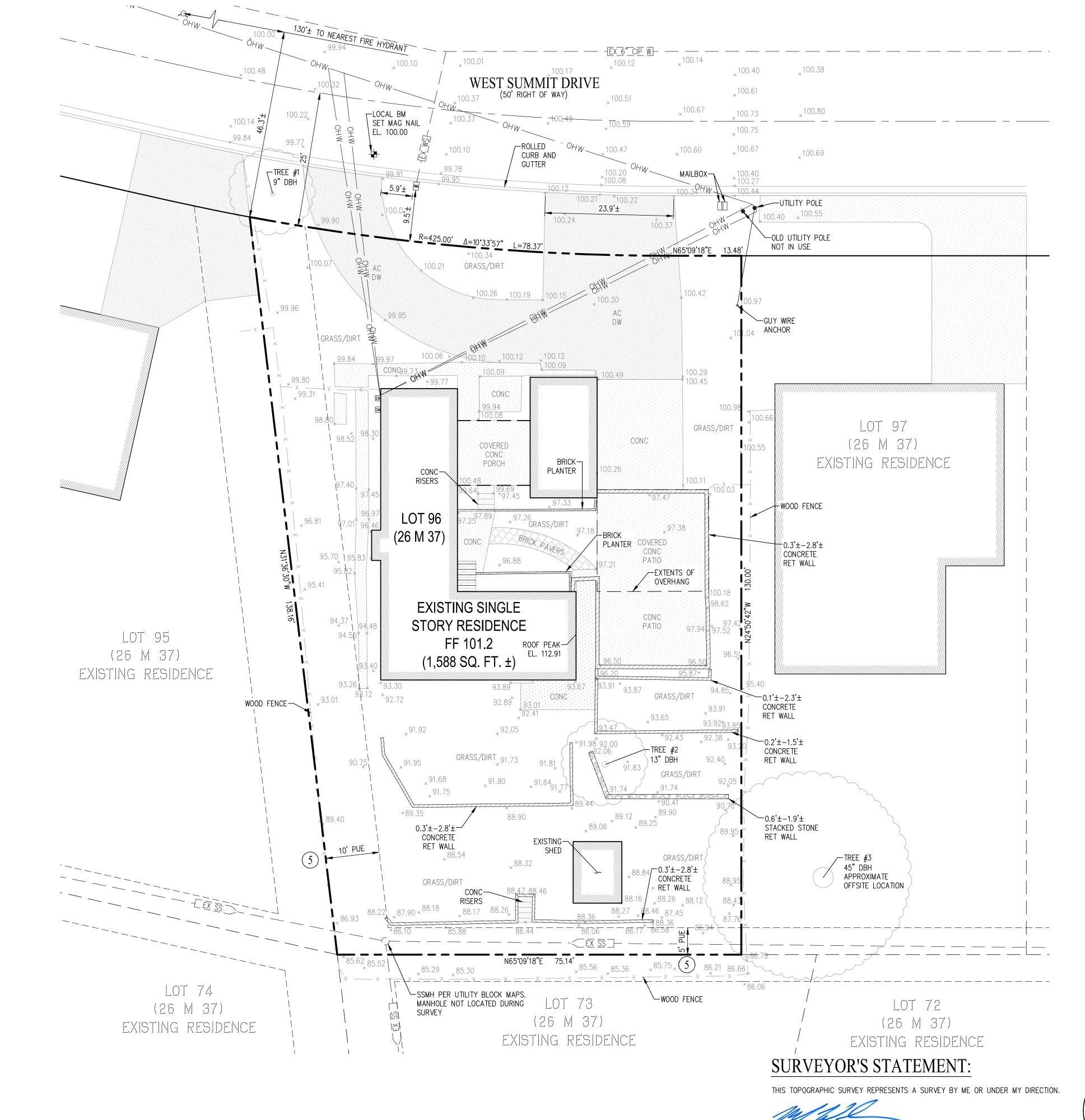
ER

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3085-000

JOB NUMBER



#### TITLE REPORT

FIDELITY NATIONAL TITLE COMPANY TITLE NO. FSMO-1082101082-BD DATED JULY 28, 2021

#### LEGAL DESCRIPTION:

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE UNINCORPORATED AREA IN COUNTY OF SAN MATEO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

LOT 96, AS DELINEATED UPON THAT CERTAIN MAP ENTITLED "TRACT NO. 563 EMERALD LAKE HEIGHTS, SAN MATEO COUNTY CALIFORNIA", WHICH MAP WAS FILED FOR RECORD IN THE OFFICE OF THE RECORDER OF THE COUNTY OF SAN MATEO, STATE OF CALIFORNIA, ON DECEMBER 9, 1946 IN BOOK 26 OF MAPS, AT PAGES 37 AND 38.

#### **EXCEPTIONS AND EXCLUSIONS:**

(#) INDICATES TITLE REPORT ITEM NUMBER

ITEMS  $\bigcirc{1}$  THROUGH  $\bigcirc{4}$  RELATE TO TAXES, LIENS, LAND RIGHTS, AND TITLE DOCUMENTS, AND CANNOT BE PLOTTED.

5 EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS DELINEATED OR AS OFFERED FOR DEDICATION, ON THE MAP OF SAID TRACT/PLAT:

PURPOSE: PUBLIC UTILITIES

AFFECTS: SOUTHWESTERLY 10 FEET AND SOUTHEASTERLY 5 FEET

ITEMS 6 THROUGH 8 RELATE TO COVENANTS, CONDITIONS AND RESTRICTIONS, DEED OF TRUST, AND VALIDITY OF TRUSTEES AND CANNOT BE PLOTTED.

#### BENCHMARK:

ELEVATION: 100.00' (ASSUMED)

BENCHMARK ID: LOCAL BENCHMARK
DESCRIPTION: SET MAG NAIL IN THE STREET PAVEMENT OF 29 WEST SUMMIT DRIVE.

#### ASSESSOR'S PARCEL NUMBER:

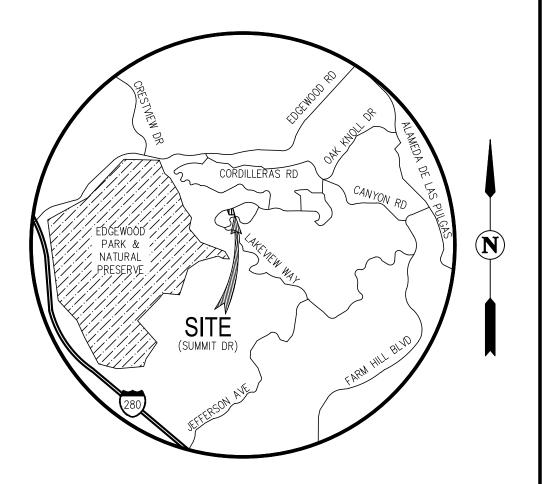
057-123-010

#### AREA:

10,953 SQ. FT. MORE OR LESS.

#### LEGEND & ABBREVIATIONS

	PROPERTY BOUNDARY LINE
	EXISTING RIGHT OF WAY
	CENTERLINE
	EXISTING UTILITY LINE
	TIE LINE
	ADJACENT PROPERTY BOUNDARY LINE
	EXISTING STRUCTURE
OHW	OVERHEAD WIRES
XX	FENCE LINE
	BUILDING OVERHANG
•	FOUND STANDARD STREET MONUMENT
•	FOUND MONUMENT AS NOTED
WF	EXISTING WATER FAUCET
EM	EXISTING ELECTRIC METER
GM	EXISTING GAS METER
wM	EXISTING WATER METER
<del>- [ -</del>	LOCAL BENCHMARK



# VICINITY MAP NOT TO SCALE

#### NOTES:

- RECORD INFORMATION AND PROPERTY DESCRIPTION ARE PER TITLE REPORT LISTED HEREON. THIS IS NOT A BOUNDARY SURVEY.
- 2) UTILITIES SHOWN ARE BASED ON OBSERVED EVIDENCE AT THE TIME OF THE FIELD SURVEY, AND LIMITED UTILITY RECORDS AVAILABLE. ADDITIONAL RESEARCH AND INVESTIGATION WOULD BE REQUIRED TO DETERMINE THE EXACT LOCATIONS OF UNDERGROUND UTILITIES. DO NOT RELY ON THIS SURVEY FOR SUCH LOCATIONS. SOME UTILITIES COULD BE COVERED BY STRUCTURES OR OBJECTS SUCH AS AUTOMOBILES, TRUCKS, CONTAINERS, ETC.
- 3) ALL DISTANCES SHOWN ARE FEET AND DECIMALS THEREOF.
- ) NO SANITARY SEWER CLEANOUT WAS LOCATED DURING FIELD SURVEY.
- ) ALL TIES SHOWN HEREON ARE PERPENDICULAR UNLESS OTHERWISE NOTED.
- 6) STRUCTURES, TREES, AND IMPROVEMENTS ON ADJACENT PROPERTIES HAVE NOT BEEN SURVEYED. LOCATIONS DEPICTED HEREIN ARE APPROXIMATE.
- 7) SURVEY UPDATED 10/4/21 TO INCLUDE TREE TAG INFORMATION RELATED TO TREE INVENTORY IN THE PROJECT ARBORIST REPORT DATED 9/29/21 AND PREPARED BY CALIFORNIA TREE AND LANDSCAPE CONSULTING, INC.

#### **REFERENCES:**

(#) INDICATES REFERENCE NUMBER

(1) TRACT NO 563. EMERALD LAKE HEIGHTS, SAN MATEO COUNTY CALIFORNIA (29 M 37)

#### FLOOD ZONE:

ZONE X: AREA DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE FLOODPLAIN.

SOURCE: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA),
FLOOD INSURANCE RATE MAP, MAP NUMBER 06081C0282E

DATED: OCTOBER 16, 2012

GROUND ELEVATION EXISTING FIRE HYDRANT 2 EXISTING MANHOLE AIR CONDITIONER CONC CONCRETE DIAMETER AT BREAST HEIGHT (PER ARBORIST) DRIVEWAY ELEVATION EXISTING FINISHED FLOOR OVERHANG OVERHEAD WIRES SANITARY SEWER SANITARY SEWER MANHOLE WATER WATER METER

WATER SERVICE

# 29 WEST SUMMIT DRIVE TOPOGRAPHIC SURVEY

SAN MATEO COUNTY CALIFORNIA SCALE: 1" = 10' DATE: SEPTEMBER 9, 2021

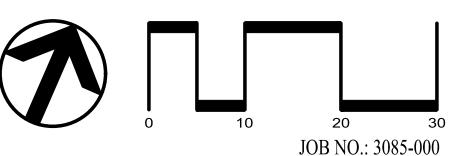


9/9/2021

DATE

MARK H. WEHBER

REGISTERED L.S. NO. 7960





SAN RAMON • (925) 866-0322
SACRAMENTO • (916) 375-1877

WWW.CBANDG.COM

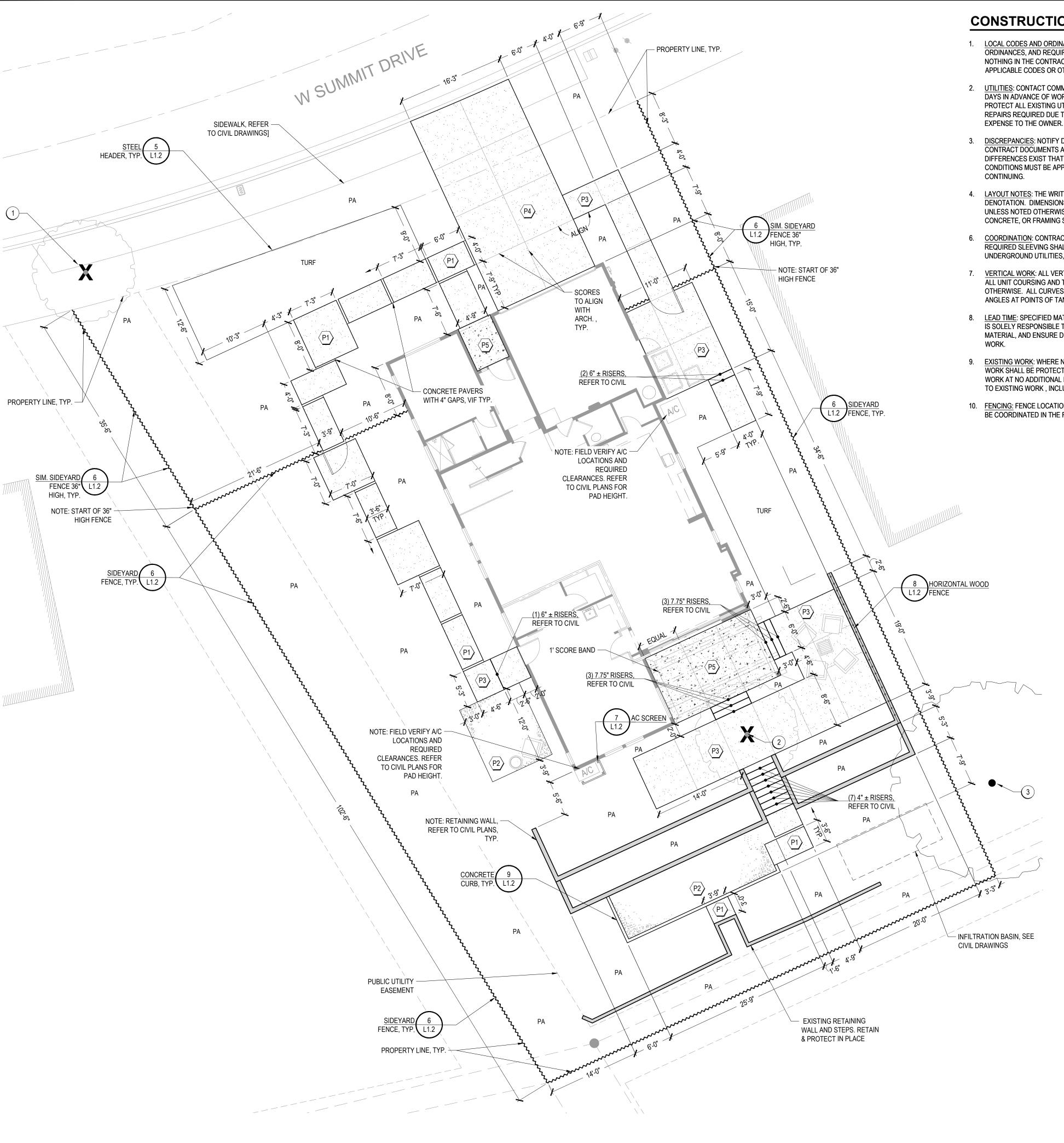
SURVEYORS

OF 1 SHEETS

SHEET NO.

F:\3085-000\SAN MATEO COUNTY\29 W. SUMMIT DRIVE\ACAD\EXHIBITS\XB-LOT SURVEY\_29 W SUMMIT.DWG

PLANNERS



#### **CONSTRUCTION NOTES**

- LOCAL CODES AND ORDINANCES: WORK SHALL CONFORM TO ALL LOCAL CODES, ORDINANCES, AND REQUIREMENTS, INCLUDING FEDERAL ACCESSIBILITY GUIDELINES. NOTHING IN THE CONTRACT DOCUMENTS SHALL BE CONSTRUED AS AN EXEMPTION TO APPLICABLE CODES OR OTHER JURISDICTIONAL REQUIREMENTS.
- 2. <u>UTILITIES</u>: CONTACT COMMON GROUND ALLIANCE (C.G.A.) AT 811, AT LEAST TWO WORKING DAYS IN ADVANCE OF WORK (PER CA GOV. CODE 4216). THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT, AND SHALL PAY FOR ANY REPAIRS REQUIRED DUE TO THE CONTRACTOR'S OPERATIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 3. DISCREPANCIES: NOTIFY DISTRICT'S REPRESENTATIVE OF ANY VARIATIONS BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS. DO NOT PROCEED WHERE DIFFERENCES EXIST THAT WOULD AFFECT THE WORK. ALL ADJUSTMENTS DUE TO FIELD CONDITIONS MUST BE APPROVED BY THE DISTRICT'S REPRESENTATIVE PRIOR TO
- 4. LAYOUT NOTES: THE WRITTEN DIMENSION SUPERCEDES SCALED OR GRAPHIC DENOTATION. DIMENSIONS ARE BETWEEN PARALLEL OR PERPENDICULAR POINTS UNLESS NOTED OTHERWISE. DIMENSIONS ARE TO CENTERLINE OR FACE OF MASONRY, CONCRETE, OR FRAMING SUBSTRATE FINISH SURFACES, UNLESS NOTED OTHERWISE.
- 6. COORDINATION: CONTRACTOR SHALL COORDINATE WORK BETWEEN TRADES. ALL REQUIRED SLEEVING SHALL BE COORDINATED WITH SITE WORK, INCLUDING OTHER UNDERGROUND UTILITIES, CURBS, AND CONCRETE.
- 7. VERTICAL WORK: ALL VERTICAL CONSTRUCTION SHALL BE INSTALLED TRUE AND PLUMB. ALL UNIT COURSING AND TOPS OF WALLS, FENCES, ETC. SHALL BE LEVEL UNLESS NOTED OTHERWISE. ALL CURVES SHALL BE CONTINUOUS AND EVEN, WITH NO BREAKS OR ANGLES AT POINTS OF TANGENCY OR FORMWORK JOINTING.
- 8. LEAD TIME: SPECIFIED MATERIALS MAY REQUIRE A SIGNIFICANT LEAD TIME. CONTRACTOR IS SOLELY RESPONSIBLE TO LEAD TIMES AND TO PROVIDE SUBMITTALS, AND ORDER MATERIAL, AND ENSURE DELIVERY TO THE JOB SITE TO ALLOW TIMELY PROGRESSION OF
- 9. EXISTING WORK: WHERE NEW CONSTRUCTION ABUTS EXISTING WORK, ALL EXISTING WORK SHALL BE PROTECTED. CONTRACTOR SHALL REPLACE ANY DAMAGED EXISTING WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL NEW WORK WILL CONFORM TO TO EXISTING WORK, INCLUDING FLATWORK JOINTS, ELEVATIONS, COLOR, AND FINISH.
- 10. FENCING: FENCE LOCATIONS SHOWN ARE DIAGRAMMATIC AND FINAL LOCATIONS ARE TO BE COORDINATED IN THE FIELD BY THE LANDSCAPE CONTRACTOR.

#### LAYOUT LEGEND

CALLOUT		- REFERENCED DETAIL SHEET				
	ADJ.	ADJACENT	NATIVE	NATIVE GRASS		
	EQ	EQUAL DISTANT	GRASS			
	BOC	BACK OF CURB	OH	OVERHANG		
	BOW	BACK OF WALK	PA	PLANTING AREA		
	CJ	CONSTRUCTION/COLD JOINT	PL	PROPERTY LINE		
	CL	CENTERLINE	POB	POINT OF BEGINNING		
	CLR	CLEAR	SIM	SIMILAR TO		
	EJ	EXPANSION JOINT	SYM	SYMMETRICAL		
	EQ	EQUAL DISTANT	TYP	TYPICAL		
	ILO	IN LIEU OF	T, TURF	TURF AREA		
	MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWIS		
	MIN	MINIMIIM	VIF	VERIFY IN FIFI D		

REFERENCED DETAIL NUMBER

#### PAVING AND FENCING LEGEND

- CONCRETE PAVERS PER DETAIL 1/L1.2: STANDARD GRAY CONCRETE WITH ACID ETCH FINISH WITH TOP CAST #01 SURFACE RETARDANT MANUFACTURED BY GRACE PRODUCTS. 4" GAP FILL WITH P2.
- DECORATIVE GRAVEL PER DETAIL 4/L1.2: 3/8" CRUSHED AGGREGATE, COLOR: YOSEMITE TAN (BUILDER TO VERIFY), BY LYNGSO (650.364.1730). 2" OVER COMPACTED SUBGRADE OVER FILTER FABRIC. WITH 8" GALVANIZED WIRE STAPLES.
- CONCRETE PAVING (PEDESTRIAN)PER DETAIL 2/L1.2: STANDARD GRAY CONCRETE BY GRACE PRODUCTS.
- CONCRETE PAVING (VEHICULAR) PER DETAIL 3/L1.2: STANDARD GRAY CONCRETE WITH ACID ETCH FINISH WITH TOP CAST #01 SURFACE RETARDANT MANUFACTURED BY GRACE PRODUCTS. TOOLED SCORE JOINTS AS SHOWN ON PLANS.
- CONCRETE TO BE POURED WITH ARCHITECTURE. REFER TO STRUCTURAL DRAWINGS DRAWINGS.

SIDEYARD FENCE: PER DETAIL 6/L1.2, 330 LF (CONTRACTOR TO VERIFY, INCLUDES TWO 4'-0" GATE)

36" FENCE SIMILAIR TO SIDEYARD FENCE: PER DETAIL 6/L1.2, **64 LF** (CONTRACTOR TO VERIFY)

36" HORIZONTAL FENCE: PER DETAIL 8/L1.2, **31 LF** (CONTRACTOR TO VERIFY)

STEEL HEADER, TYP. REFER TO PLAN FOR EXACT

LOCATIONS AND CONDITIONS.

#### TREE PROTECTION CHART <u>NOTE:</u> SEE ARBORIST REPORT FOR ADDITIONAL INFORMATION

	_	_	_	-	_	
						-

KEYNOTE	TAG#	STATUS	LOCATION	SCIENTIFIC NAME	COMMON NAME	DBH (in)	ACTION
1	3099	Protected	On-Site	Calocedrus decurrens	Incense Cedar	9	Remove
2	3100	Protected	On-Site	Pyrus	Pear	13	Remove
3	9600	Non-Protected	Off-Site	Sequoia sempervirens	Coast Redwood	45	Retain and Protect

#### SITE CALCULATIONS (PERFORMANCE APPROACH)

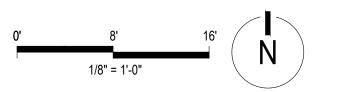
29 W Summit	SF	% OF LOT AREA
EXISTING		
TOTAL LOT SF	10,953	100%
TOTAL PERMEABLE AREA	7,207	66%
PROPOSED LOT LANDSCAPE AREA (% OF TOTAL AREA)	6,405	58%
SHRUB AND GROUNDCOVER AREA (% OF TOTAL LANDSCAPE AREA)	5,732	89%
PROPOSED TURF AREA (% OF TOTAL LANDSCAPE AREA)	673	11%
AGGREGATE PATIO	350	
WALKABLE CONCRETE PADS WITH GAPS	452	
TOTAL IMPERMEABLE AREA	3,746	34%
RESIDENCE/ GARAGE FOOT PRINT (% OF TOTAL AREA)	2,181	20%
LANAI	195	
FRONT PORCH	37	
EXISTING RETAINING WALL	30	
EXISTING STAIRS TO REMAIN	13	
NEW RETAINING WALL	109	
TRASH PAD AND WALK WAYS	851	
DRIVEWAY (CONCRETE)	330	
CALCULATIONS FOR AREA PAST THE PROPERTY LINE	1,031	
SHRUB AND GROUNDCOVER AREA	494	
PUBLIC SIDEWALK	356	
DRIVEWAY	181	

NOTE: WATER SUPPLY IS DOMESTIC.

#### **SEE SHEET L1.2 FOR CONSTRUCTION DETAILS**

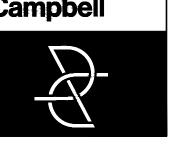
I HAVE COMPLIED WITH THE CRITERIA OF THE WATER CONSERVATION IN LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN.

08/09/22 DATE





#### Roach & Campbell



111 Scripps Drive Sacramento, California 95825 916.945.8003 | 916.342.7119 4409 CRLA 5044

#### **LANDSCAPE IMPROVEMENT PLANS FOR**

#### 29 W SUMMIT DRIVE, **EMERALD HILLS,** CA

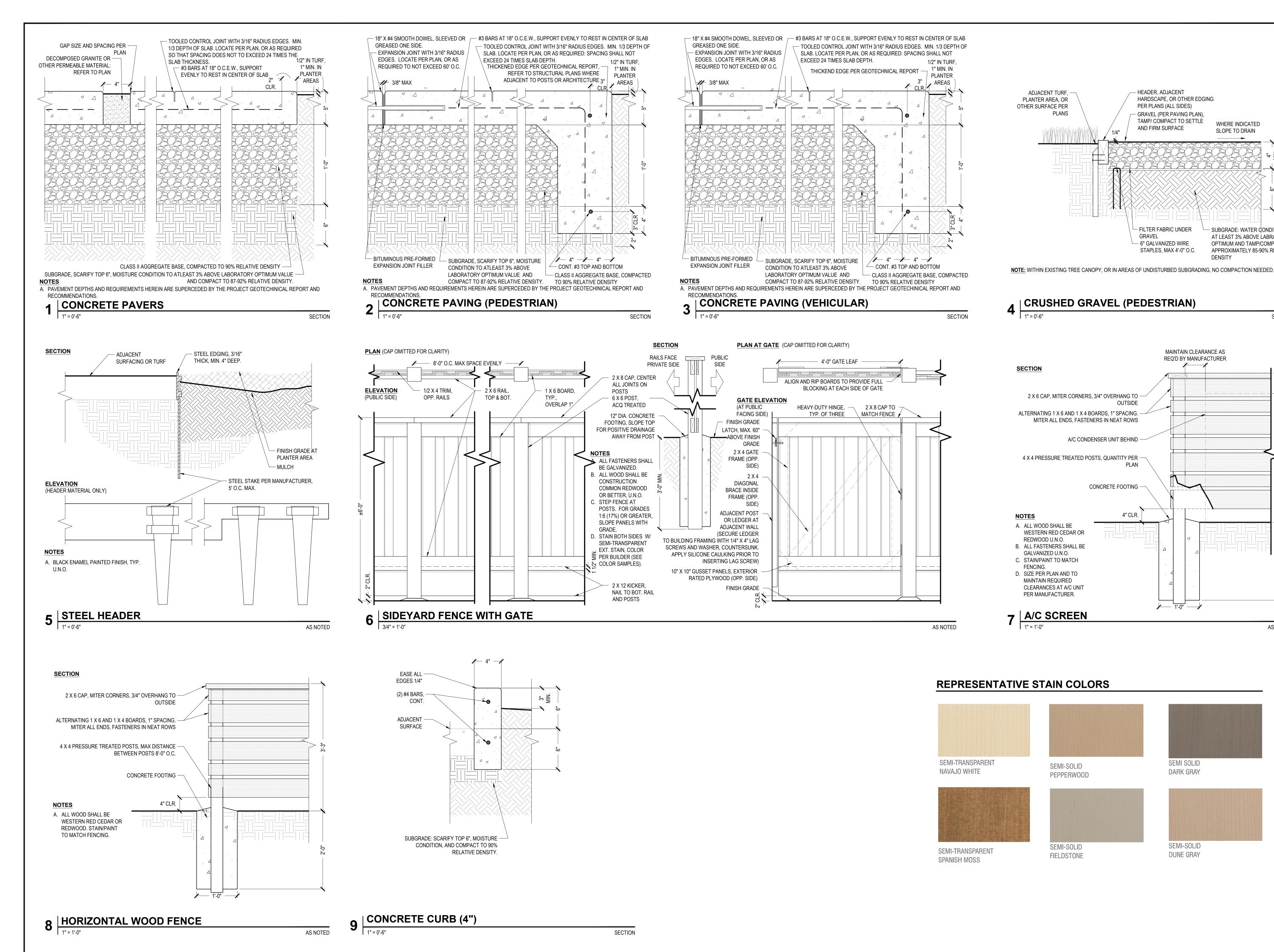
**THOMAS JAMES HOMES** 

KEYMAP:

LAYOUT PLAN, NOTES, AND LEGEND

DRAWN BY: STAFF CHECKED BY: DWC JOB NO. 20035 06/13/2022 **REVISIONS:** 







Roach & Campbell

WHERE INDICATED

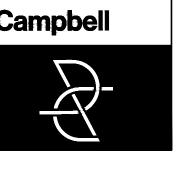
- SUBGRADE: WATER CONDITION TO

AT LEAST 3% ABOVE LABRATORY OPTIMUM AND TAMP/COMPACT TO

APPROXIMATELY 85-90% RELATIVE

SECTION

SLOPE TO DRAIN



111 Scripps Drive Sacramento, California 95825 916.945.8003 | 916.342.7119 4409 CRLA 5044

**LANDSCAPE IMPROVEMENT PLANS FOR** 

29 W SUMMIT DRIVE, **EMERALD HILLS,** CA

**THOMAS JAMES HOMES** 

KEYMAP:

CONSTRUCTION DETAILS

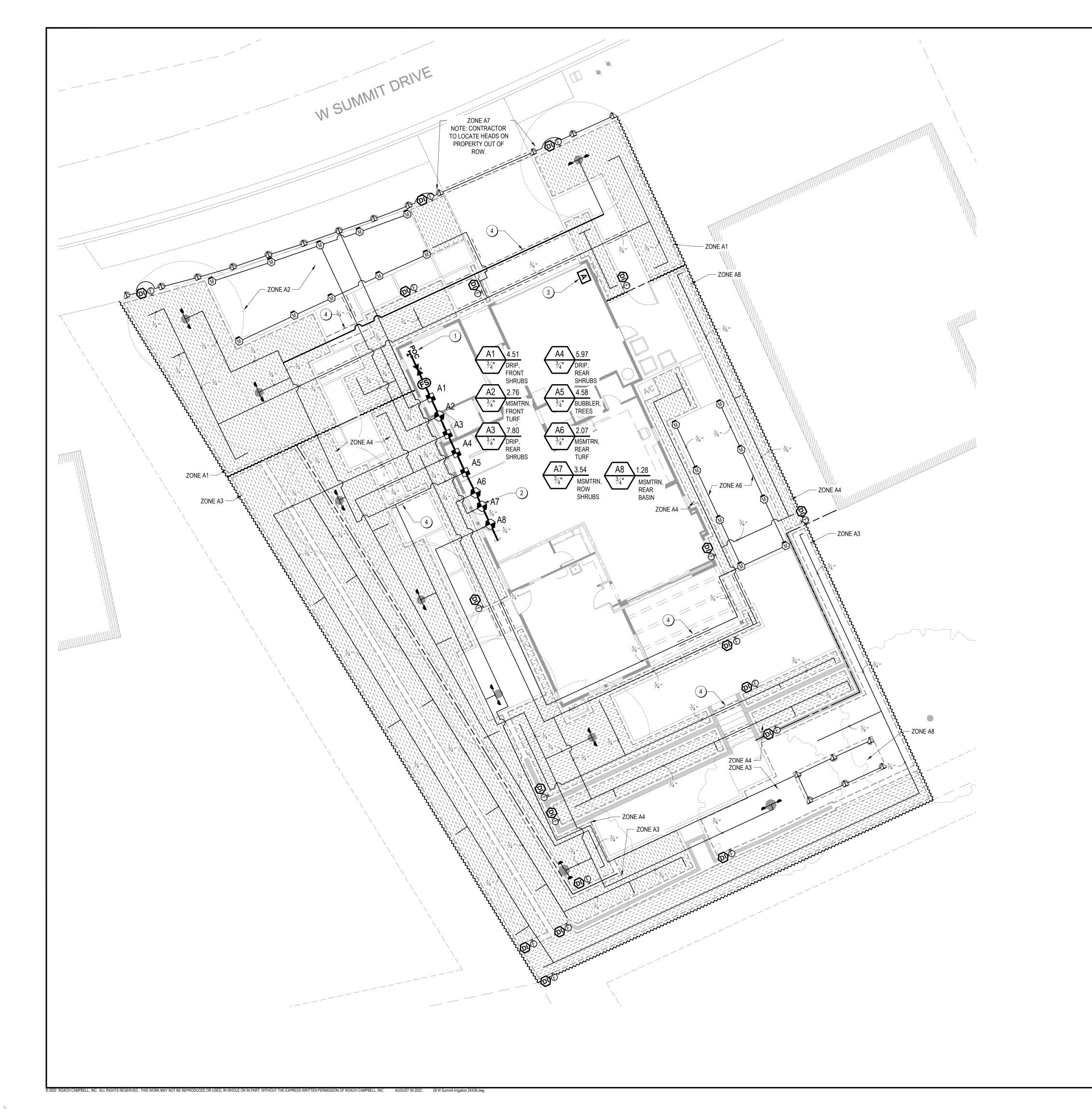
DRAWN BY: STAFF CHECKED BY:

AS NOTED

DWC JOB NO. 20035

DATE 06/13/2022

**REVISIONS:** 



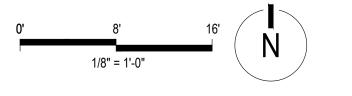
IRRIGATION	LEGEND		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>	<u>PSI</u>
$\langle \overline{M} \rangle \langle \overline{L} \rangle \langle \overline{O} \rangle$	HUNTER MP1000 PROS-04-PRS30-CV TURF ROTATOR, 4" POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	18	30
800 A 800 F	HUNTER MP800SR PROS-12-PRS30-CV SHRUB ROTATOR, 12" POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 30 PSI, MP ROTATOR NOZZLE ON PRS30 BODY. ADJ=ORANGE AND GRAY (ARC 90-210), 360=LIME GREEN AND GRAY (ARC 360)	19	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>	
	DRIP ZONE VALVE KIT- LOW FLOW IRRITROL 2711APRDK-LF ELECTRIC DRIP ZONE VALVE KIT: 3/4" 2711APR VALVE, AVB, FILTER, LOW FLOW REGULATOR & FITTINGS. (.25 GPM- 8.0 GPM).	4	
Φ	TORO T-FCH-H-FHT FLUSH VALVE, PLUMBED TO FLUSH MANIFOLD AT LOW POINT. VERIFY QUANTITY & LOCATIONS IN FIELD.	19	
<b>(D)</b>	RAIN BIRD OPERIND DRIP SYSTEM OPERATION INDICATOR, STEM RISES 6" FOR CLEAR VISIBILITY WHEN DRIP SYSTEM IS CHARGED TO A MINIMUM OF 20PSI. INCLUDES 16" OF 1/4" DISTRIBUTION TUBING WITH CONNECTION FITTING PRE-INSTALLED.	19	
04 09 15 30	TORO TREE DRIP DRIP BUBBLER TORO DB-15-PC DRIP BUBBLER (LOW FLOW) .25 DRIP BUBBLER ON TORO FUNNY PIPE RISER WITH ASSORTED BARBED FITTINGS. 1/2" FIPT THREADS. NOTE: PRODUCT INCLUDES SCREEN & CHECK VALVE.	18	
	AREA TO RECEIVE DRIPLINE TORO PCB-218 AT GRADE INSTALLATION PRESSURE COMPENSATING LANDSCAPE DRIPLINE. 0.53 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. SECURE WITH 6" ROUNDED GALVANIZED STAPLES AT 4`-0" O.C.	2,814 L.F.	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
<b>4</b>	ANTI-SIPHON REMOTE CONTROL VALVE IRRITROL 2711APR ELECTRIC REMOTE CONTROL VALVE, 3/4", FLOW CONTROL, STAINLESS SCREW BONNET. INSTALL TORO Y-FILTER MODEL TALFS75150-S IF MP-800 OR MP-1000 NOZZLES ARE USED.	4	
×	SHUT-OFF VALVE NIBCO T-113, CLASS 125 BRONZE GATE SHUT OFF VALVE WITH WHEEL HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4" - 3". INSTALL ABOVE GRADE ON COPPER RISER FROM EXTERIOR HOSE BIB, UPSTREAM OF VALVE MANIFOLD.	1	
Α	HUNTER HPC-400 W/ (1) PCM 900 MODULE 4 STATION WITH (1) PCM 900 MODULE OUTDOOR WI-FI ENABLED, FULL-FUNCTIONING CONTROLLER WITH TOUCHSCREEN. PLASTIC CABINET	1	
FS	HUNTER HC-100-FLOW 1" FLOW METER FOR USE WITH HYDRAWISE ENABLED CONTROLLER TO MONITOR FLOW AND PROVIDE SYSTEM ALERTS. ALSO FUNCTIONS AS STAND ALONE FLOW TOTALIZER/SUB.	1	
POC <b>T</b>	POINT OF CONNECTION 1" INSTALL 1" TEE OFF DOMESTIC WATERLINE AFTER PRIMARY METER. INSTALL SHUTOFF VALVE AND HUNTER HC-100-FLOW FLOW METER AS INDICATED.	1	
	• IRRIGATION LATERAL LINE: PVC SCHEDULE 40, SOLVENT WELD MIN. DIAMETER 3/4" U.N.O.	1,964 L.F.	
	<ul> <li>IRRIGATION MAINLINE: PVC SCHEDULE 40, SOLVENT WELD MIN. DIAMETER 1.5" U.N.O.</li> </ul>	35.5 L.F.	
=======	PIPE SLEEVE: PVC SCHEDULE 40	137.8 L.F.	
	Valve Callout		
# #	Valve Number		
#"	Valve Flow Valve Size		
π · ·			
RRIGATION	KEYNOTES		

- 1 LOCATE POINT-OF-CONNECTION IN FIELD. EQUIPMENT SHOWN IN HOUSE FOR PLAN CLARITY ONLY.
- 2 STUB MAINLINE.
- 3 LOCATE CONTROLLER AS DIRECTED BY BUILDER.
  CONTROLLER SHOWN AT APPROXIMATE LOCATION ONLY.
  COORDINATE WITH BUILDER FOR ALL REQUIRED
  PENETRATIONS AND 120V POWER.
- 4 COORDINATE WITH OTHER TRADES FOR ALL SLEEVING, ETC. IRRIGATION CONTROL WIRING SHALL BE SLEEVED (SEPARATELY FROM IRRIGATION PIPING) WHEN UNDER PAVING.

#### SEE SHEET L2.2 FOR IRRIGATION NOTES AND SCHEDULE, SEE **SHEET 2.3 IRRIGATION DETAILS**

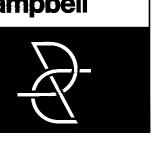
I HAVE COMPLIED WITH THE CRITERIA OF THE WATER CONSERVATION IN LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN.

	08/09/22
SIGNED	DATE





#### Roach & Campbell



111 Scripps Drive Sacramento, California 95825 916.945.8003 | 916.342.7119 4409 crla 5044

#### **LANDSCAPE IMPROVEMENT PLANS FOR**

#### 29 W SUMMIT DRIVE, EMERALD HILLS, CA

THOMAS JAMES HOMES

KEYMAP:

IRRIGATION PLAN AND LECEND

LEGEND	
DRAWN BY:	
STAFF	
CHECKED BY:	

JOB NO. 20035

DATE

06/13/2022

**REVISIONS:** 



#### GENERAL IRRIGATION NOTES PERFORMANCE APPROACH ( > 2500 SF REDWOOD CITY, SAN MATEO CNTY)

- 1. <u>SITE ACCEPTANCE</u>: THE CONTRACTOR SHALL OBSERVE THE SITE AND VERIFY THAT ROUGH GRADING AND ALL OTHER WORK HAS BEEN COMPLETED TO THE CONTRACTOR'S SATISFACTION. ANY PREVIOUS WORK THAT IS NOT COMPLETE SHALL BE BROUGHT TO THE OWNER'S OR LANDSCAPE ARCHITECT'S ATTENTION IN WRITING. BEGINNING WORK CONSTITUTES ACCEPTANCE OF THE SITE.
- 2. <u>UNDERGROUND UTILITIES</u>: THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. CALL C.G.A. (811) TO LOCATE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY DAMAGED UTILITIES, TO THE SATISFACTORY OF THE OWNER AND GOVERNING AGENCY AT NO COST TO THE OWNER OR INCREASE IN BID AMOUNT.
- 3. QUANTITIES: (IF SHOWN) FOR CONTRACTOR'S CONVENIENCE ONLY, AND SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION TO INSTALL A COMPLETE AND FUNCTIONAL IRRIGATION SYSTEM, WITH EVEN AND HEAD-TO-HEAD COVERAGE OF ALL IRRIGATED AREAS, UNLESS SPECIFICALLY NOTED OTHERWISE. AREAS SHOWN ARE REPRESENTATIVE OF FINAL LOTS. CONTRACTOR SHALL VERIFY ALL LOT SIZES PRIOR TO SUBMITTING A BID.
- 4. <u>DIAGRAMMATIC PLANS</u>: THESE PLANS ARE DIAGRAMMATIC IN NATURE, AND ARE NOT INTENDED TO SHOW EVERY FITTING OR EXACT PIPING LAYOUT. IN MANY CASES, THE MAINLINE AND LATERALS ARE SHOWN IN WALKWAYS OR PAVED AREAS. IRRIGATION EQUIPMENT AND PIPING SHALL BE INSTALLED IN PLANTED AREAS ONLY, UNLESS SPECIFICALLY NOTED OTHERWISE. MAINLINE SHALL BE INSTALLED AS CLOSELY AS POSSIBLE TO BACK OF WALK OR CURB, BUT IN NO CASE GREATER THAN 18" AWAY.
- 5. FIELD CONDITIONS: THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS. DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN WHEN EXISTING WORK, OBSTRUCTIONS, SITE CONDITIONS, GRADE DIFFERENCES, OR OTHER ASPECTS ARE APPARENT IN THE FIELD THAT AFFECT INSTALLATION OF THE IRRIGATION SYSTEM. IN THE EVENT THAT DISCREPANCIES ARE FOUND, INFORM THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT IN WRITING. IF WRITTEN NOTICE IS NOT RECEIVED, THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE IRRIGATION SYSTEM, INCLUDING ANY RE-DESIGN OR RE-WORK THAT MAY BE REQUIRED.
- 6. <u>FIELD ADJUSTMENTS</u>: ARE REQUIRED TO OBTAIN OPTIMUM EFFICIENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ADJUSTMENTS AS REQUIRED TO MINIMIZE OR ELIMINATE OVERSPRAY AND RUNOFF, AND TO MAXIMIZE DISTRIBUTION UNIFORMITY. ADJUSTMENTS INCLUDE BUT ARE NOT LIMITED TO: NOZZLE SELECTION, INSTALLATION OF IN-LINE OR IN-HEAD CHECK VALVES TO ELIMINATE LOW-HEAD DRAINAGE AND PONDING, AND ADJUSTMENT OF HEAD SPACING OR HEAD LAYOUT TO ACCOMMODATE IN-FIELD OBSTRUCTIONS OR CONDITIONS.
- 7. POINT OF CONNECTION: LOCATE AND COORDINATE IN FIELD. 1" TEE FROM INDIVIDUAL LOT DOMESTIC LINE. THE CONTRACTOR SHALL VERIFY A MINIMUM OF 40 PSI (STATIC) AND A MINIMUM FLOW OF 12 GPM IS AVAILABLE AT THE POINT OF CONNECTION. IN THE EVENT THIS PRESSURE IS NOT AVAILABLE, IMMEDIATELY INFORM THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT IN WRITING. IF WRITTEN NOTICE IS NOT RECEIVED, THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE IRRIGATION SYSTEM DESIGN, INCLUDING ANY RE-DESIGN OR RE-WORK THAT MAY BE REQUIRED.
- 8. <u>NEW MATERIALS</u>: ALL EQUIPMENT AND PIPING SHALL BE NEW. CONFORM TO ALL MANUFACTURER'S HANDLING AND INSTALLATION REQUIREMENTS.

- 9. <u>PIPE SIZING</u>: PIPE SIZES AS SHOWN ON PLAN INCLUDE THE LARGEST PIPE DIAMETER IN EACH ZONE, AND THEN PIPE DIAMETER AT REDUCTIONS ONLY. IF NO PIPE SIZE IS SHOWN, PIPE SHALL BE THE SAME DIAMETER AS THE NEXT UPSTREAM SIZE LABELED. IN NO CASE SHALL THE VELOCITY OF WATER THROUGH IRRIGATION LATERALS EXCEED 5 FPS UNLESS SPECIFICALLY NOTED OTHERWISE.
- 10. <u>IRRIGATION SCHEDULE:</u> IS PROVIDED AS A GUIDELINE ONLY. THE CONTRACTOR SHALL OBSERVE EXISTING AND INSTALLED CONDITIONS, AND SHALL ADJUST THE CONTROLLER SCHEDULE ACCORDING TO ACTUAL FIELD CONDITIONS, USING THE PROVIDED SCHEDULE AS A BASELINE. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL PLANTED AREAS RECEIVE ADEQUATE MOISTURE, WITHOUT OVER WATERING. THIS INCLUDES MANUAL WATERING AS REQUIRED.
- 11. CONTROL WIRING (SINGLE FAMILY RESIDENTIAL ONLY): CONTROL WIRING SHALL BE MINIMUM 18 AWG FOR MULTI-STRAND JACKETED DIRECT BURIAL WIRE. COMMON WIRE INSULATION SHALL BE WHITE. BUNDLED WIRE SHALL BE SIZED TO INCLUDE INCLUDE TWO SPARE CONDUCTORS.
- 12. WARRANTY: ALL WORK SHALL BE WARRANTIED FROM ONE YEAR OF THE DATE OF SUBSTANTIAL COMPLETION. PRIOR TO ACCEPTANCE, PROVIDE A GUARANTEE STATING THE PROJECT NAME, PROJECT LOCATION, DATE OF SUBSTANTIAL COMPLETION, INSTALLING CONTRACTOR'S NAME, CONTACT INFORMATION (PHONE, ADDRESS, EMAIL) AND LICENSE NUMBER ON COMPANY LETTERHEAD.
- 13. THREADED CONNECTIONS: ALL PLASTIC THREADED CONNECTIONS EXCEPT MARLEX SHALL RECEIVE THREE WRAPS "EXTRA HEAVY" OR "FULL DENSITY" TEFLON OR PTFE TAPE PRIOR TO ASSEMBLY. PLASTIC MALE THREADS SHALL NOT BE USED AND WILL BE REJECTED, EXCEPT WHEN MAKING CONNECTION TO METAL: ALL THREADED CONNECTIONS TO METAL PIPE SHALL USE PLASTIC MALE THREADS TO FEMALE METAL THREADS.
- 14. <u>SLEEVES</u>: ALL PIPING UNDER PAVED AREAS TO BE RUN IN PVC SCH. 40 SLEEVES AT LEAST TWICE THE DIAMETER OF THE PIPE BEING SLEEVED. ALL CONTROL WIRING UNDER PAVED AREAS TO BE RUN IN A SEPARATE SLEEVE, SIZED TO FACILITATE PULLING WIRE BUNDLE. SLEEVES TO EXTEND A MINIMUM OF 18" BEYOND PAVEMENT.

#### 15. JURISDICTIONAL REQUIREMENTS AND STATEMENTS:

- 15.1. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
- 15.2. PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.
- 15.3. CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD
- 15.4. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
- 15.5. AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION.

#### **IRRIGATION SCHEDULE**

Recommended Irrigation Schedule

29 West Summit Drive

Date: 8/8/2022

#### Reference data

Nearest data location: Redwood City

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Reference Eto (in./mo.)	1.50	1.80	2.90	3.80	5.20	5.30	6.20	5.60	4.80	3.10	1.70	1.00
Historical average precipitation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Effective precip (hist. ave 0.2" * 75%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Base required irrigation (in./mo.)	1.50	1.80	2.90	3.80	5.20	5.30	6.20	5.60	4.80	3.10	1.70	1.00

#### Hydrozone Information Table

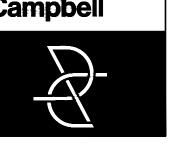
one l	Description	Ks	Kd	Kmc	KL	Irr Type	ΙE	PR	Soil Type	BIR	AW	RZ	PAW	MAD	AD	HA (sqft)	% of landscape area
A1	Shrub and groundcover, front (Low & Medium)	0.4	1.0	1.0	0.40	DripLine	0.88	0.43	Clay Loam	0.2	0.18	18	3.24	50%	1.62	1332	20%
A2 -	Turf, front (High)	0.9	1.0	1.0	0.90	MultiStrm	0.71	0.43	Clay Loam	0.2	0.18	4	0.72	50%	0.36	394	6%
A3	Shrub and groundcover, rear (Low & Medium)	0.4	1.0	1.0	0.40	DripLine	0.88	0.96	Clay Loam	0.2	0.18	18	3.24	50%	1.62	2343	35%
A4	Shrub and groundcover, rear (Low)	0.3	1.0	1.0	0.30	DripLine	0.88	0.52	Clay Loam	0.2	0.18	18	3.24	50%	1.62	1720	26%
A5 -	Trees, (Medium)	0.5	1.0	1.0	0.50	Bubbler	0.85	0.40	Clay Loam	0.2	0.18	36	6.48	50%	3.24	0	0%
A6 <sup>-</sup>	Turf, rear (High)	0.3	1.0	1.0	0.30	DripLine	0.88	0.40	Clay Loam	0.2	0.18	4	0.72	50%	0.36	278	4%
A7 (	Groundcover, ROW (Low)	0.2	1.0	1.0	0.20	DripLine	0.88	0.43	Clay Loam	0.2	0.18	18	3.24	50%	1.62	494	7%
A8 I	Depressed basin rear, (Low)	0.5	1.0	1.0	0.50	DripLine	0.88	0.43	Clay Loam	0.2	0.18	12	2.16	50%	1.08	100	2%

#### Controller Schedule by Zone

<u>cone</u>	Description		Temp?		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Shrub and groundcover, front	t (Low & Medium)		Irr. Days / Wk	1	1	1	1	1	1	1	1	1	1	1	1
A1			N	Cycles / Day	1	2	2	3	3	3	4	3	3		1	1
	Max. Minutes / Cycle	28		Min. / Cycle	22	15	21	19	25	27	23	27	24		26	15
	Turf, front (High)			lrr. Days / Wk	1	2	2	3	3	3	4	4	3		1	1
A2			N	Cycles / Day	3	2	3	2	3	3	3	2	3		3	2
	Max. Minutes / Cycle	28		Min. / Cycle	20	20	20	27	24	25	21	28	23	21	24	20
	Shrub and groundcover, rear	(Low & Medium)		lrr. Days / Wk	1	1	1	1	1	1	1	1	1	1	1	1
АЗ		(Low & Modiani)	N	Cycles / Day	1	1	2	2	3	3	4	3	3	2	1	1
	Max. Minutes / Cycle	13		Min. / Cycle	10	13	10	13	12	12	10	12	11	10	12	7
	Shrub and groundcover, rear	(1 0)(1)		lrr. Days / Wk	1	1	1	1	1	1	1	1	1	1 2 23 2 3 21 1 2 10 1 2 14 1 3 21 1 2	1	1
A4		(LOW)	Ν	Cycles / Day	1	1	2	2	3	3	3	3	2	2	1	1
	Max. Minutes / Cycle	23		Min. / Cycle	14	18	13	18	16	17	19	17	23	14	16	9
	Trees, (Medium)			lrr. Days / Wk	1	1	1	1	1	1	1	1	1	1	1	1
A5	Trees, (Wediam)		N	Cycles / Day	1	2	2	3	4	4	5	4	4	3	2	1
	Max. Minutes / Cycle	30		Min. / Cycle	30	20	29	27	26	28	25	28	25	21	18	20
	Turf, rear (High)			lrr. Days / Wk	1	1	1	1	1	1	2	2	1	1	1	1
A6	Tun, rear (riigir)		N	Cycles / Day	1	1	2	2	3	3	2	2	2	2	1	1
	Max. Minutes / Cycle	30		Min. / Cycle	18	24	17	23	21	22	18	17	29	18	21	12
	Groundcover, ROW (Low)			lrr. Days / Wk	1	1	1	1	1	1	1	1	1	1	1	1
Α7	Glodildcover, ROVV (LOW)		N	Cycles / Day	1	1	1	2	2	2	2	2	2	1	1	1
	Max. Minutes / Cycle	28		Min. / Cycle	11	15	21	15	19	20	23	21	18	23	13	8
	Depressed basin rear (Leu)			lrr. Days / Wk	1	1	1	1	1	1	1	1	1	1	1	1
A8	Depressed basin rear, (Low)		Ν	Cycles / Day	1	2	2	3	4	4	4	4	4	2	2	1
	Max. Minutes / Cycle	28		Min. / Cycle	27	18	26	24	24	25	28	26	23	28	16	18



Roach & Campbell



111 Scripps Drive Sacramento, California 95825 916.945.8003 | 916.342.7119 4409 CRLA 5044

# LANDSCAPE IMPROVEMENT PLANS FOR

29 W SUMMIT DRIVE, EMERALD HILLS, CA

THOMAS JAMES HOMES

KEYMAP:

IRRIGATION NOTES AND

SCHEDULE

STAFF
CHECKED BY:

DRAWN BY:

JOB NO.

20035 DATE

06/13/2022 REVISIONS:



**L2.2** 

DRAWINGS IN SET:

SEE SHEET L2.1 FOR IRRIGATION PLAN AND LEGEND, SEE SHEET 2.3 IRRIGATION DETAILS

I HAVE COMPLIED WITH THE CRITERIA OF THE WATER CONSERVATION IN LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN.

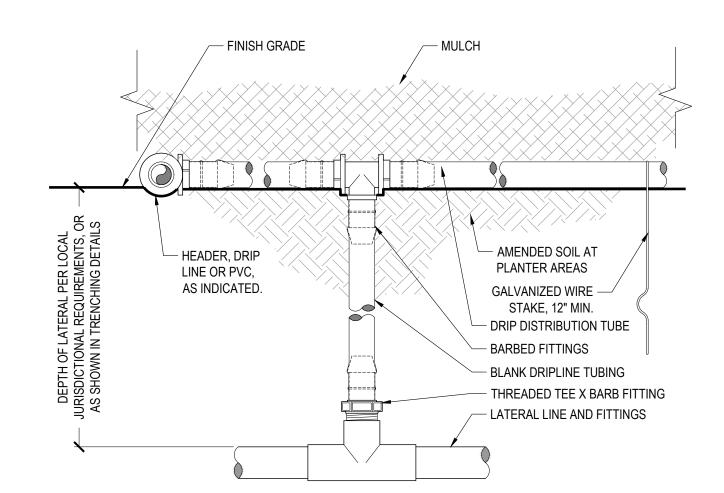
 08/09/22

 SIGNED
 DATE

0' 8' 16' N

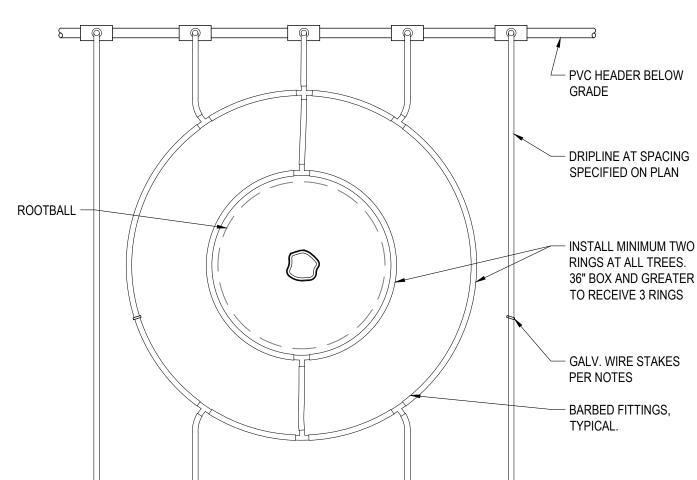
- A. VERIFY CONTROLLER LOCATION PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE POWER AND ROUTING OF IRRIGATION CONTROL WIRES WITH SUPERINTENDENT AND LOCAL INSPECTOR.
- ALL WIRING AND ATTACHMENT PER NEC AND APPLICABLE LOCAL REQUIREMENTS. C. TYPE OR NEATLY HAND-WRITE CONTROLER STATION ASSIGNMENTS AND SCHEDULE ON MANUFACTURER-PROVIDED INFORMATION CARD OR ON SEPARATE SHEET ATTACHED TO CONTROLLER MANUAL. LEAVE ALL PRODUCT LITERATURE

#### **▲ IRRIGATION CONTROLLER: INTERIOR WALL MOUNT ELEVATION**



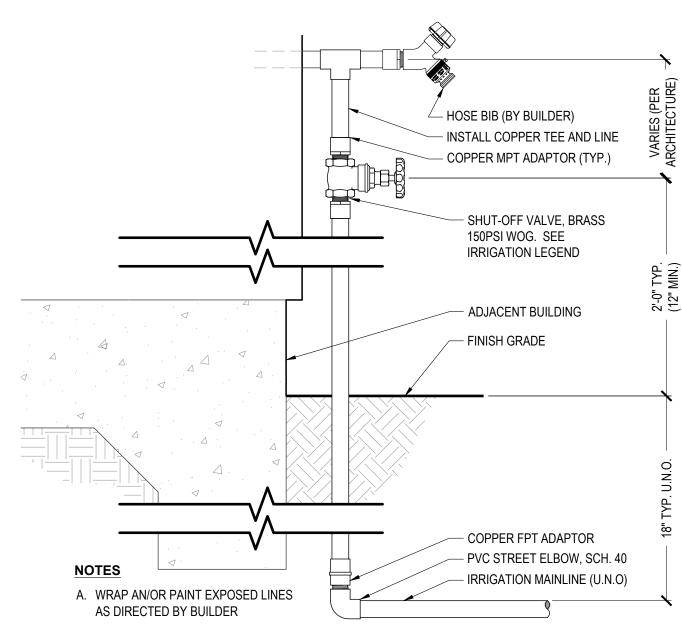
- INSTALL PER MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS. PLACE STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.
- AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

# 5 AT-GRADE DRIP: LATERAL CONNECTION NO SCALE

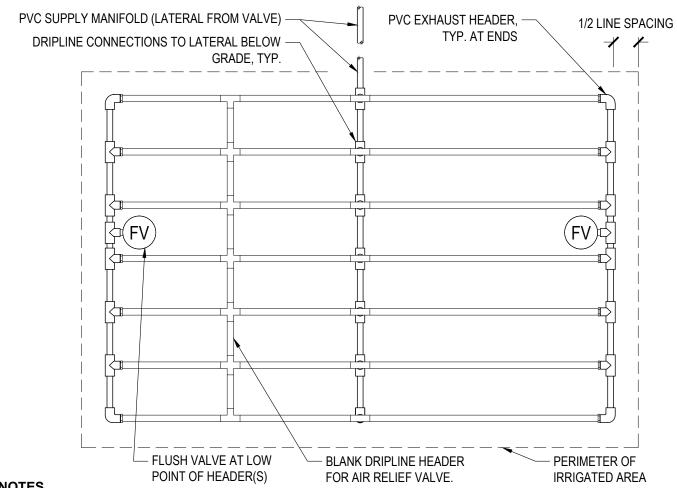


- A. DISTANCE BETWEEN LATERAL ROWS AND RINGS AT TREE SHALL BE EQUAL, AND PER IRRIGATION LEGEND. B. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM LENGTH RECOMMENDED BY THE
- C. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM, AND FIVE FEET IN CLAY.

# 9 AT-GRADE DRIPLINE: LAYOUT AT TREES NO SCALE

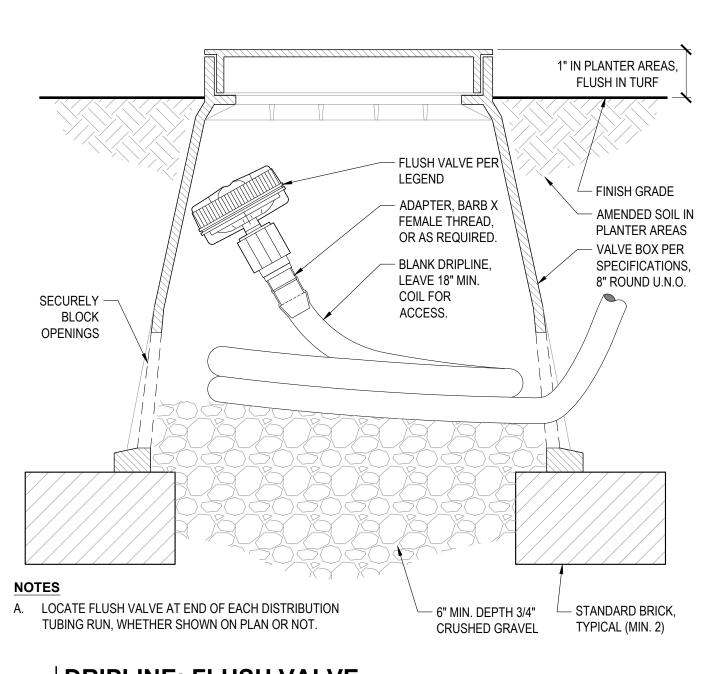


# 2 | SHUTOFF VALVE (RESIDENTIAL)

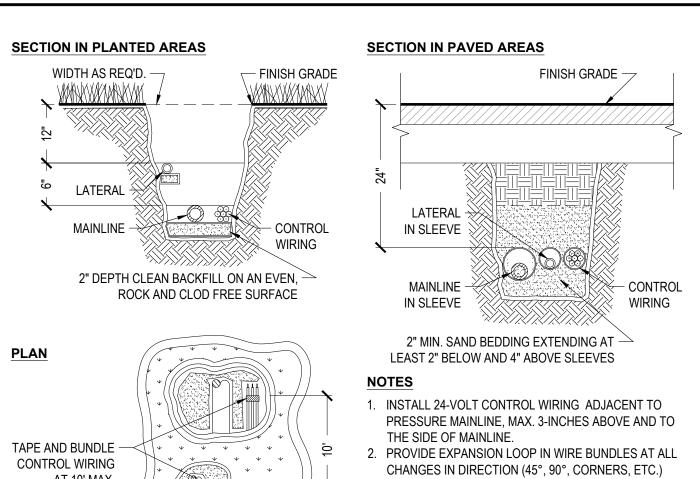


- A. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING PER IRRIGATION LEGEND OR SCHEDULE.
- LENGTH OF LONGEST DRIPLINE LATERAL SHALL NOT EXCEED THE MANUFACTURER'S RECOMMENDED MAXIMUM. FLUSH VALVE TO BE INSTALLED AT EACH LOCALIZED LOW POINT. VERIFY LOCATIONS IN FIELD AND INSTALL ADDITIONAL VALVES AS REQUIRED.
- D. DO NOT ALLOW THE INLET PRESSURE TO EXCEED 50 PSI. INSTALL PRESSURE REDUCERS AT THE CONTROL VALVE IF

# 6 AT-GRADE DRIPLINE: CENTER FEED



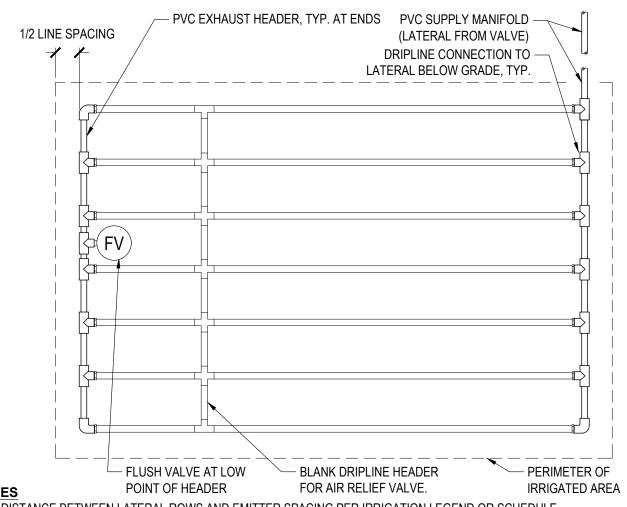
# 10 DRIPLINE: FLUSH VALVE



AT 10' MAX. 3. PVC PIPE SHALL NOT BE BENT INSIDE TRENCH TO A INTERVALS AND POINT WHERE THERE IS STRESS ON GLUED FITTINGS. AT JOINTS 4. NO STACKING OF PIPES ALLOWED, OR MORE THAN THREE PIPES IN CONJOINED TRENCHES. 5. COMPACT TRENCHES TO 85% IN PLANTED AREAS, 95% IN PAVED AREAS. SETTLEMENT SHALL BE EVIDENCE OF SNAKE PIPE IN -INSUFFICIENT COMPACTION AND SHALL BE REPAIRED TRENCHES AT NO ADDITIONAL COST TO OWNER. 6. EXTEND SLEEVING MIN. 12" BEYOND PAVING ONE LINE/PIPE PER SLEEVE, SEP. SLEEVE FOR WIRING 8. INSTALL (1) EXTRA SLEEVE AT EACH SLEEVED

3 IRRIGATION TRENCHING LOCATION, SAME DIAMETER AS LARGEST SLEEVE.

AS NOTED

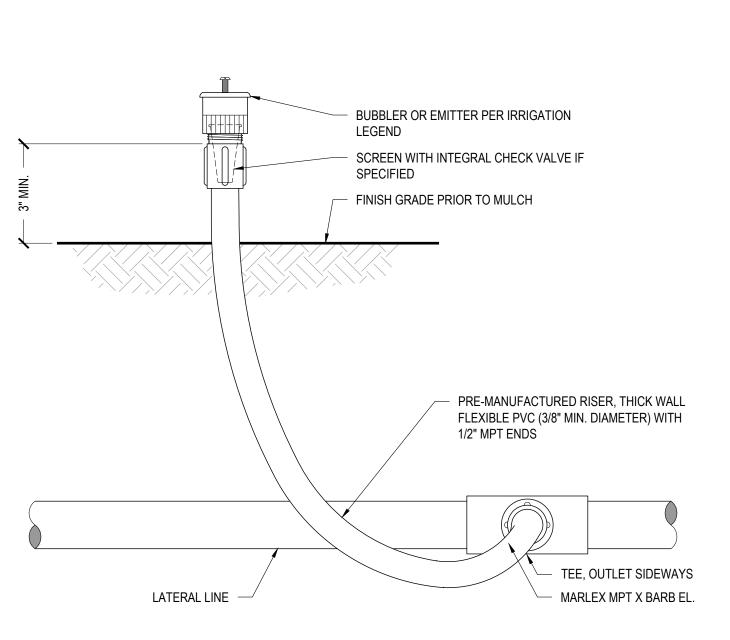


A. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING PER IRRIGATION LEGEND OR SCHEDULE. B. LENGTH OF LONGEST DRIPLINE SHALL NOT EXCEED THE MANUFACTURER'S MAXIMUM RECOMMENDED LENGTH

C. FLUSH VALVE TO BE INSTALLED AT EACH LOCALIZED LOW POINT(S). VERIFY LOCATIONS IN FIELD AND INSTALL ADDITIONAL VALVES AS REQUIRED. D. DO NOT ALLOW THE INLET PRESSURE TO EXCEED 50 PSI. INSTALL PRESSURE REDUCERS AT THE CONTROL

#### 7 | AT-GRADE DRIPLINE: END FEED

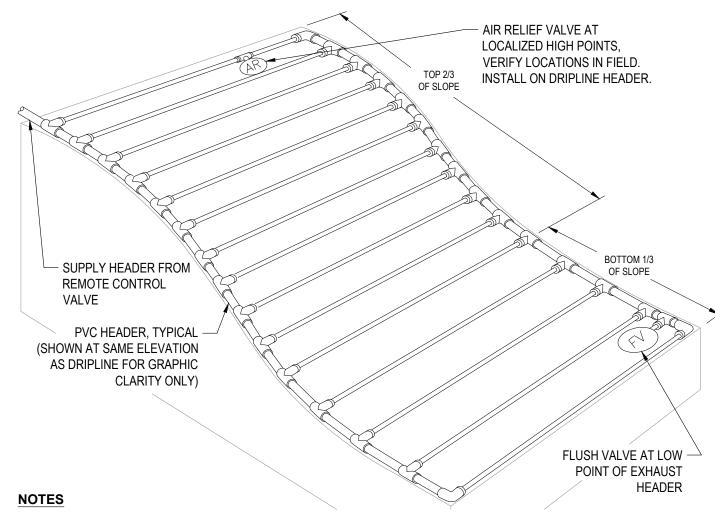
VALVE IF REQUIRED.



11 FLEX-RISER EMITTER/BUBBLER
NO SCALE

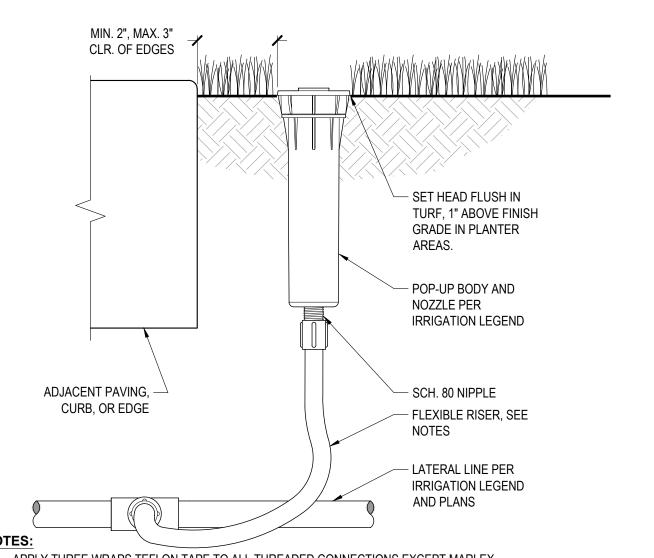
VALVE TAG INDICATING STATION NUMBER WATER-PROOF WIRE CONNECTORS CONTROL WIRING, SECURE TO RISER WITH MIN. (2) NYLON UV-RESISTANT ZIP-TIES ANTI-SIPHON VALVE PER IRRIGATION LEGEND. FOR DRIP ZONES: INSTALL WYE FILTER. FOR INLET PRESSURES OVER 40PSI, USE PRESSURE- REDUCING FILTER OR SEPARATE PRESSURE REDUCER. A. LOCATE VALVES IN PLANTING AREAS, ADJACENT WALLS OR SCH. 80 VERTICAL WORK. ALIGN ALL RISERS VALVES, LEAVING ROOM FOR SERVICE INCLUDING FILTER REMOVAL. FINISH -GRADE ALL THREADED CONNECTIONS SHALL RECEIVE 3 WRAPS TEFLON TAPE. ALL THREADED RISERS AND NIPPLES SHALL BE SCHEDULE 80. MINIMUM MAINLINE AND RISER SIZE SHALL BE 1" DIA. D. INSTALL VALVES ON MANIFOLD, MIN. - IRRIGATION IRRIGATION -8" SEPARATION. ALL VALVES SHALL LATERAL MAINLINE FROM BE ON TEES, WITH THE MAINLINE MANIFOLD. EXTENDED MIN. 12" FROM THE LAST VALVE AND CAPPED FOR FUTURE

#### EXPANSION. | REMOTE CONTROL VALVE: RESIDENTIAL

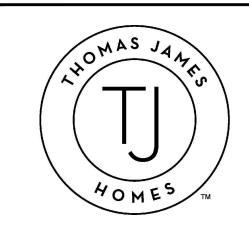


- A. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING PER IRRIGATION LEGEND OR SCHEDULE. DISTANCE BETWEEN LATERAL ROWS FOR BOTTOM 1/3 OF SLOPE TO BE SPACED 1.5X GREATER THAN REGULAR SPACING. B. LENGTH OF LONGEST DRIPLINE SHALL NOT EXCEED THE MANUFACTURER'S MAXIMUM RECOMMENDED LENGTH. AIR RELIEF VALVE TO BE INSTALLED AT EACH LOCALIZED HIGH POINT. VERIFY LOCATIONS IN FIELD AND INSTALL
- ADDITIONAL AIR RELIEF VALVES AS REQUIRED TO AVOID TRAPPED AIR POCKETS. C. DO NOT ALLOW THE INLET PRESSURE TO EXCEED 50 PSI. INSTALL PRESSURE REDUCER(S) AT THE REMOTE CONTROL

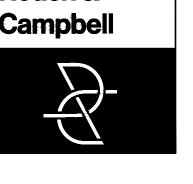
# | SUBSURFACE DRIPLINE: SLOPED LAYOUT



A. APPLY THREE WRAPS TEFLON TAPE TO ALL THREADED CONNECTIONS EXCEPT MARLEX. FLEXIBLE RISER SHALL BE PRE-MANUFACTURED THICK-WALL HDPE WITH MPT ADAPTERS, LENGTH AS REQUIRED TO ALLOW MOVEMENT IN THREE DIRECTIONS.



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#### **LANDSCAPE IMPROVEMENT PLANS FOR**

29 W SUMMIT DRIVE, **EMERALD HILLS,** CA

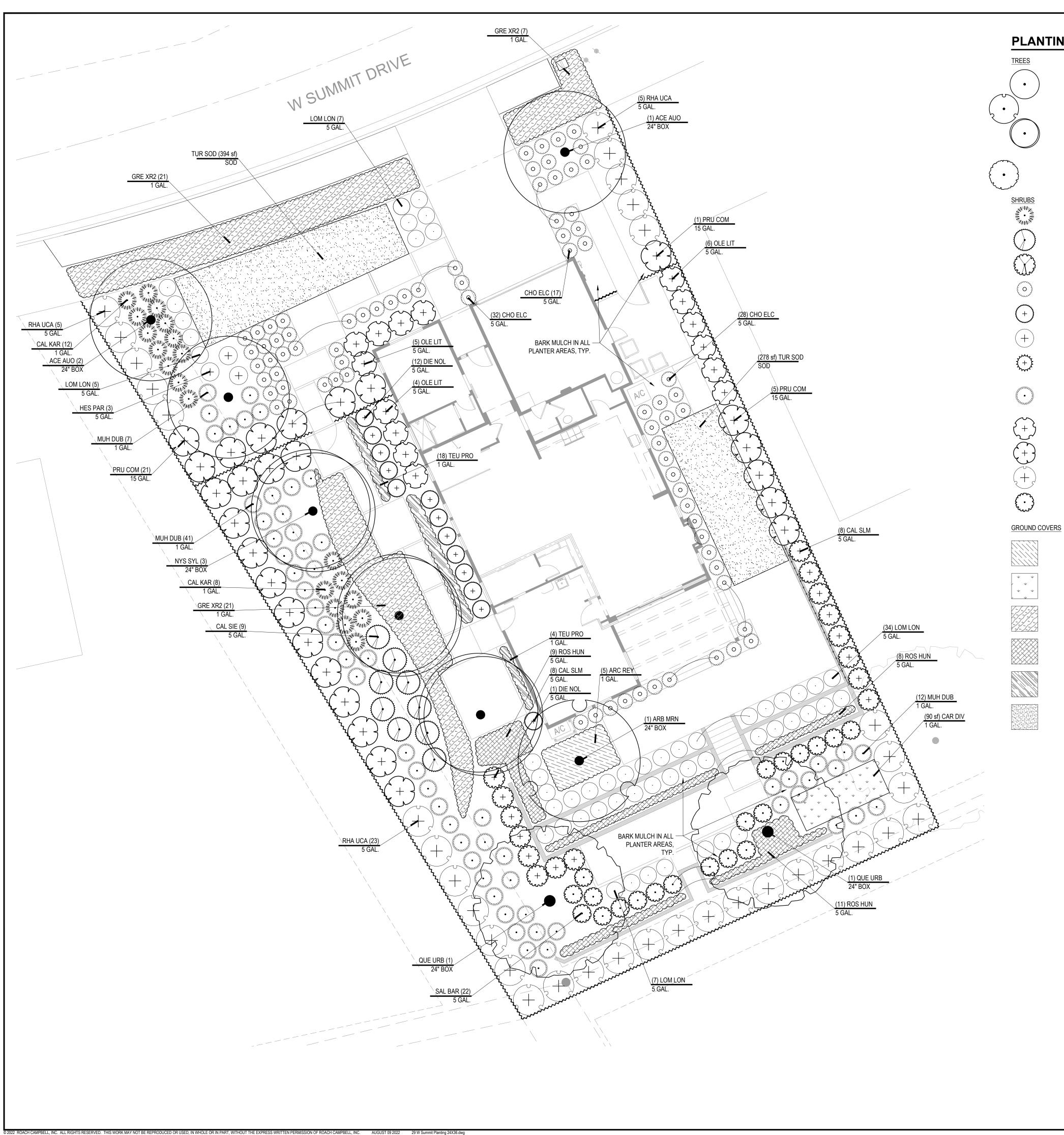
**THOMAS JAMES HOMES** 

KEYMAP:

#### IRRIGATION DETAILS

DRAWN BY: STAFF CHECKED BY: DWC JOB NO. 20035 DATE 06/13/2022 **REVISIONS:** 





PLANTING LEGEND NOTE: PLANT FACTORS ARE AS FOLLOWED: .3 FOR LOW WATER USE PLANTS, .5 FOR MEDIUM WATER USE PLANTS, .5 FOR MEDIU CODE BOTANICAL / COMMON NAME ACE AUO ACER RUBRUM 'OCTOBER GLORY' / RED MAPLE 24" BOX ARB MRN ARBUTUS X `MARINA` / MARINA STRAWBERRY TREE STANDARD 24" BOX WUCOLS (L), 40' (H), MINIMUM PLANTING HEIGHT 8', MAX SPACING 15' NYS SYL NYSSA SYLVATICA / SOUR GUM 24" BOX 10` HEIGHT MIN. (H) 30`-50` X (W) 20`-30` MATURE HEIGHT WILL BE OBTAINED IN 10-15 YRS QUE URB QUERCUS MACROCARPA 'URBAN PINNACLE' / URBAN PINNACLE OAK 24" BOX BOTANICAL / COMMON NAME CONT CAL KAR CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS 1 GAL. WUCOLS (M), (H/W) 2-3' CAL SIE CALLIANDRA X 'LIANCA' TM / SIERRA STARR FAIRY DUSTER 5 GAL. WUCOLS (UNKOWN), (H/W) 4-5' CAL SLM CALLISTEMON VIMINALIS 'CV01' TM / SLIM WEEPING BOTTLEBRUSH 5 GAL. WUCOLS (L), (H) 8-10' X (W) 3-4' CHO ELC CHONDROPETALUM TECTORUM 'EL CAMPO' / EL CAMPO SMALL CAPE RUSH 5 GAL. WUCOLS (L), (H/W) 2'-3' DIE NOL DIETES X 'NOLA ALBA' TM / KATRINA AFRICAN IRIS 5 GAL. 13 WUCOLS (L), (H/W) 3' HES PAR HESPERALOE PARVIFLORA "DESERT FLAMENCO" / RED YUCCA 5 GAL. WUCOLS (L), (H/W) 3-4' LOM LON LOMANDRA LONGIFOLIA 'BREEZE' / DWARF MAT RUSH 5 GAL. WUCOLS (L), MUH DUB MUHLENBERGIA DUBIA / PINE MUHLY 1 GAL. WUCOLS (L) OLE LIT OLEA EUROPAEA `LITTLE OLLIE` TM / LITTLE OLLIE OLIVE 5 GAL. WUCOLS (VL), (H) 4' X (W) 6` PRU COM PRUNUS CAROLINIANA 'COMPACTA' / COMPACT CAROLINA LAUREL CHERRY WUCOLS (L), (H) 8-10' X (W) 6-8' RHA UCA RHAPHIOLEPIS INDICA "MAJESTIC BEAUTY" / RHAPHIOLEPSIS MAJESTIC BEAUTY 5 GAL. WUCOLS (L), (H) 12-20' X (W) 8-10' SAL BAR SALVIA LEUCANTHA 'SANTA BARBARA' / MEXICAN BUSH SAGE 5 GAL. WUCOLS (L), 3'-4' (H/W) GROUND COVERS CODE BOTANICAL / COMMON NAME CONT ARC REY ARCTOSTAPHYLOS UVA-URSI 'POINT REYES' / POINT REYES KINNIKINNICK 1 GAL. 54" o.c. 5 CAR DIV CAREX DIVULSA / EUROPEAN GREY SEDGE 1 GAL. 90 SF GRE XR2 GREVILLEA X 'POORINDA ROYAL MANTLE' / POORINDA ROYAL MANTLE GREVILLEA 1 GAL. 48" o.c. 49 ROS HUN ROSMARINUS OFF. 'HUNTINGTON CARPET' / PROSTRATE ROSEMARY 5 GAL. 36" o.c. 28 WUCOLS (L), (H) 1'-2' X (W) 4'-8' TEUCRIUM CHAMAEDRYS 'PROSTRATUM' / PROSTRATE GERMANDER 1 GAL. 24" o.c. 22 WUCOLS (L), (H) 1-2' X (W) 2-3' TUR SOD TURF / 90% DWARF FESCUE / 10% KENTUCKY BLUE. SOD 672 SF

> TAG#3099 CALOCEDRUS DECURRENS (3) ACER RUBRUM 'OCTOBER GLORY' - 24" BOX

> > TAG #3100 PYRUS (3) NYSSA SYLVATICA - 24" BOX

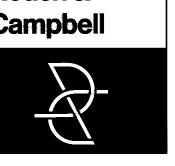
SEE SHEET L3.2 FOR NOTES **AND WATER CALCS, L3.3 FOR PLANTING DETAILS, AND L3.4** FOR TREE PROTECTION PLAN

I HAVE COMPLIED WITH THE CRITERIA OF THE WATER CONSERVATION IN LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN.

08/09/22



Roach & Campbell



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**LANDSCAPE IMPROVEMENT PLANS FOR** 

29 W SUMMIT DRIVE, **EMERALD HILLS,** CA

**THOMAS JAMES HOMES** 

KEYMAP:

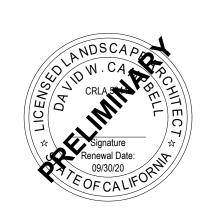
PLANTING PLAN AND LEGEND

STAFF CHECKED BY: DWC JOB NO.

DRAWN BY:

20035 06/13/2022

**REVISIONS:** 



#### PLANTING NOTES

- 1. <u>SITE ACCEPTANCE</u>: THE CONTRACTOR SHALL OBSERVE THE SITE AND VERIFY THAT ROUGH GRADING AND ALL OTHER WORK HAS BEEN COMPLETED TO THE CONTRACTOR'S SATISFACTION. ANY PREVIOUS WORK THAT IS NOT COMPLETE SHALL BE BROUGHT TO THE OWNER'S OR LANDSCAPE ARCHITECT'S ATTENTION IN WRITING. BEGINNING WORK CONSTITUTES ACCEPTANCE OF THE SITE.
- 2. <u>SITE PREPARATION</u>: ALL EXISTING VEGETATION SHALL BE REMOVED (CLEAR AND GRUB). PRIOR TO ROUGH GRADING OPERATIONS, PRESERVE ALL TOPSOIL BY STOCKPILING ON SITE. TOPSOIL SHALL BE REPLACED IN PLANTING AREAS TO ACHIEVE FINAL FINISH GRADES. FOR PLANTERS IN LIME-TREATED AREAS, REMOVE AND DISPOSE OF EXISTING SOIL TO A DEPTH OF 24" THROUGHOUT THE ENTIRE PLANTER, AND REPLACE WITH CLEAN TOPSOIL.
- 3. POSITIVE DRAINAGE: ENSURE POSITIVE DRAINAGE IN ALL LANDSCAPE AREAS, AND SHALL ADJUST ELEVATIONS AS REQUIRED. MINIMUM SLOPE IN TURF AREAS SHALL BE 0.5% TO OUTLET, MINIMUM SLOPE IN PLANTED AREAS SHALL BE 1.0%.
- 4. <u>EXPLANATION OF DRAWINGS:</u> PLANTING INTENT IS TO COMPLETELY FILL ALL PLANTING AREAS, UNLESS SPECIFICALLY NOTED OTHERWISE. QUANTITIES, (IF SHOWN) ARE FOR CONTRACTOR'S CONVENIENCE ONLY, AND SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION TO INSTALL PLANTS TO MEET THIS INTENT. PLANTING DETAILS ARE CONSIDERED TYPICAL AND ALL WORK SHALL CONFORM TO THESE DETAILS.
- 5. <u>SUBSTITUTIONS</u>: IN THE EVENT ANY PLANT MATERIAL SPECIFIED IS NOT AVAILABLE, CONTRACTOR SHALL SUBMIT PROPOSED SUBSTITUTION IMMEDIATELY TO LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO DETERMINE THE SUITABILITY OF ANY PROPOSED SUBSTITUTION. SUBSTITUTIONS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- 6. <u>PLANTING PIT DRAINAGE:</u> EXCAVATED PLANTING PITS SHALL HAVE POSITIVE DRAINAGE. PLANT PITS WHEN FULLY FLOODED WITH WATER SHALL DRAIN WITHIN 2 HOURS OF FILLING. IF PLANTING PITS DO NOT DRAIN, OTHER MEASURES, INCLUDING A 1' DIAMETER X 8' DEEP AUGURED HOLE BACKFILLED WITH CRUSHED DRAIN ROCK, WILL BE REQUIRED.
- 7. PLANT MATERIAL: ALL PLANT MATERIAL SHALL COMPLY WITH ANSI Z60.1 "STANDARD FOR NURSERY STOCK," NOTES AND DETAILS ON THE DRAWINGS. UNLESS OTHERWISE NOTED MINIMUM PLANT SIZES SHALL BE AS FOLLOWS. EVERGREEN SHRUBS (EXCEPT DWARF VARIETIES): 9" H. X 8" W. FOR 1-GALLON (#1); 15" H. X 12" W. FOR 5-GALLON (#5); AND 30" H. X 24" W. FOR 15-GALLON (#15). SINGLE TRUNK TREES: 5' H. W/ 1" CALIPER FOR 15-GALLON (#15); 8' H. W/ 2" CALIPER FOR 24" BOX (#25). CONTRACTOR SHALL SUBMIT PHOTOS OF ALL TREES 36" AND ABOVE FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO PURCHASE OR DELIVERY. APPROVAL OF PHOTOS DOES NOT PRECLUDE ON-SITE REJECTION OF UNSUITABLE PLANT MATERIAL.
- 8. <u>SITE CLEANLINESS</u>: THE CONTRACTOR IS RESPONSIBLE TO KEEP THE SITE CLEAN, FOR SOIL EROSION CONTROL MEASURES, AND FOR ANY OTHER GENERAL REQUIREMENTS. SHOULD EXISTING CONDITIONS REQUIRE MITIGATION, THE CONTRACTOR SHALL ALERT THE OWNER OR LANDSCAPE ARCHITECT PRIOR TO PERFORMING WORK.
- 9. <u>UNDERGROUND UTILITIES</u>: THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. CALL C.G.A. (811) TO LOCATE EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY DAMAGED UTILITIES, TO THE SATISFACTORY OF THE OWNER AND GOVERNING AGENCY AT NO COST TO THE OWNER OR INCREASE IN BID AMOUNT.
- 10. BARK MULCH: A 3" LAYER OF 'WALK-ON' BARK MULCH SHALL BE INSTALLED IN ALL PLANTING BEDS.
  CONTRACTOR SHALL SUBMIT A MULCH SAMPLE PRIOR TO ORDER. APPLY PRE-EMERGENT PRIOR TO
  PLACING MULCH. IF MAINTENANCE PERIOD EXTENDS PAST 60 CALENDAR DAYS FROM APPLICATION, APPLY
  AGAIN PER MANUFACTURER'S INSTRUCTIONS.
- 11. SOIL FERTILITY ANALYSIS AND AMENDMENT: THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A SOIL SAMPLE AND LABORATORY SOIL FERTILITY ANALYSIS FOR EACH 10,000SF OF PLANTED AREA, AND FOR ALL SOURCES OF IMPORT (IF APPLICABLE). SUBMIT ANALYSIS TO LANDSCAPE ARCHITECT FOR REVIEW, AND DOCUMENTATION OF AMENDMENT FOR COMPLIANCE WITH WATER EFFICIENT LANDSCAPE ORDINANCE. ALL PLANTING AREAS, INCLUDING PLANTING PITS, SHALL BE AMENDED PER THE SOILS REPORT, AND PER LOCAL ORDINANCE, INCLUDING INCORPORATING COMPOST AT THE RATE OF A MINIMUM OF 4 CU YD PER 1,000 SF OF LANDSCAPE AREA TO A DEPTH OF SIX INCHES. SOILS WITH GREATER THAN 6% ORGANIC MATER IN THE TOP SIX INCHES OF SOIL ARE EXEMPT FROM ADDING COMPOST AND TILLING. BACKFILL FOR ALL SUCCULENTS SHALL BE 50% CLEAN WASHED SAND.
- 12. CERTIFICATE OF COMPLETION: A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT AT THE COMPLETION OF THE PROJECT AND SUBMITTED WITH THE SOIL ANALYSIS REPORT TO THE AUTHORITY HAVING JURISDICTION.
- 13. MAINTENANCE PERIOD: SHALL BE A MINIMUM OF 60 CALENDAR DAYS. ANY PLANT THAT HAS BEEN REPLACED DURING THE MAINTENANCE PERIOD SHALL BE SUBJECT TO AN ADDITIONAL 60 DAYS FROM THE DATE OF REPLACEMENT. ANY DAY OF IMPROPER MAINTENANCE, AS DETERMINED BY THE LANDSCAPE ARCHITECT OR LOCAL JURISDICTION. SHALL NOT COUNT TOWARD THE MAINTENANCE PERIOD.
- 14. ROOT CONTROL BARRIERS: WHERE STREET TREES ARE WITHIN 3 FEET OF THE SIDEWALK OR CURB, PROVIDE A ROOT CONTROL BARRIER PANEL ALONG THE FACE OF SIDEWALK/CURB. PANELS SHALL BE 12" DEEP ALONG SIDEWALKS, AND 18" DEEP ALONG CURBS. CENTER PANELS AT EACH TREE AND EXTEND 10' IN EACH DIRECTION.
- 15. <u>UTILITY CLEARANCE</u>: NO TREES SHALL BE PLANTED WITHIN 5' OF WATER AND SANITARY SEWER LINES. NO TREES SHALL BE PLANTED UNDER EXISTING OR FUTURE OVERHEAD POWERLINES, AND ALL REQUIRED CLEARANCES SHALL BE MAINTAINED. ALL PLANTING EXCEPT LOW-GROWING GROUNDCOVER SHALL BE 3' CLEAR OF ALL FIRE APPURTENANCES PER NFPA 18.5.7
- 16. WORK IN RIGHT-OF-WAY: ALL WORK WITHIN THE RIGHT OF WAY OR TO BE MAINTAINED BY THE LOCAL AGENCY SHALL BE INSTALLED PER THE LATEST EDITION OF THE AGENCY CONSTRUCTION STANDARDS, AND ALL OTHER AGENCY REQUIREMENTS.
- 17. <u>TURF INSTALLATION:</u> CONTRACTOR SHALL PLACE AND ESTABLISH SOD IN ALL AREAS AS DELINEATED ON THE PLANS AS FOLLOWS.
- 17.1. REMOVE ALL ROCKS AND OTHER DELETERIOUS MATERIAL GREATER THAN 3/4" IN DIAMETER.
  ESTABLISH SMOOTH GRADES, WITH NO PONDING. ENSURE ADEQUATE SOIL COMPACTION TO AVOID
  SETTLEMENT, WITHOUT EXCEEDING 85% RELATIVE DENSITY. SUBSEQUENT SETTLEMENT SHALL BE
- CLEAR EVIDENCE OF INADEQUATE COMPACTION.

  17.2. WITHIN 24 TO 48 HOUR OF SODDING, MOISTEN AREA TO BE SODDED TO A DEPTH OF AT LEAST 6", AND MAINTAIN MOISTURE UNTIL SODDING. DO NOT ALLOW SOIL TO BE COME SATURATED.
- 17.4. INSTALL SOD WITHIN 12 HOURS OF DELIVERY. DO NOT ALLOW SOD TO SIT IN DIRECT SUNLIGHT OR TO DRY OUT
- 17.5. STARTING AT A STRAIGHT EDGE, LAY SOD IN STAGGERED ROWS, OFFSETTING JOINTS A MINIMUM OF 2

17.3. APPLY A STARTER FERTILIZER PRIOR TO LAYING SOD.

- FEET.

  17.6 AFTER LAYING ROLL SOD WITH A LIGHT-WEIGHT WATER-DRUM ROLLER (APPROXIMATELY 50 LBS). AI
- 17.6. AFTER LAYING, ROLL SOD WITH A LIGHT-WEIGHT WATER-DRUM ROLLER (APPROXIMATELY 50 LBS), AND ENSURE FULL CONTACT WITH SOIL. WATER AS SOON AS POSSIBLE, AND IN ALL CASES, WITHIN 1 HOUR AFTER LAYING.

#### WATER USE CALCULATIONS

Water Efficient Landscape Worksheet						Project:	2003
29 West Summit Drive						Date:	8/9/202
Hydrozone/Planting Description	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency	ETAF	Landscape Area (sf)		Estimated Tot Water Us
Regular Landscape Areas							
Shrub and groundcover, front (Low & Medium) A1	0.4	DripLine	0.81	0.49	1,332	658	20,69
Turf, front (High) A2	0.9	MultiStrm	0.75	1.20	394	473	14,87
Shrub and groundcover, rear (Low & Medium) A3	0.35	DripLine	0.81	0.43	2,343	1,012	31,85
Shrub and groundcover, rear (Low) A4	0.3	DripLine	0.81	0.37	1,720	637	20,04
Trees, (Medium) A5	0.4	Bubbler	0.81	0.49	_	-	-
Turf, rear (High) A6	0.9	DripLine	0.81	1.11	278	309	9,71
Groundcover, ROW (Low) A7	0.3	MultiStrm	0.75	0.40	494	198	6,21
Depressed w ater basin, rear (Low) A8	0.3	MultiStrm	0.75	0.40	100	40	1,25
				Totals	6,661	3,327	
Nearest Data Location	Redwood City	/					
Reference Eto	50.1		Water Use	(ETWU) <sup>1</sup>	104,66		
Reference ETAF	0.55	Maxir	num Allowe	ed Water	Allowance	(MAWA) <sup>2</sup>	113,79

Total ETAF x Area	3,327
Total Area (sf)	6,661
Average ETAF	0.50
<u>'</u>	<b>e</b> 3,327
ETAF Calculations/All Landscap Total ETAF x Area Total Area (sf)	

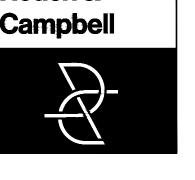
Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, 0.45 or below for non-residential areas, and 0.65 for DSA projects. These values are also reference values for determining MAWA.

<sup>1</sup>ETWU= Eto x 0.62 x ETAF x Area <sup>2</sup>MAWA = (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)) \*ETWU must be less than or equal to MAWA

\* PER THE SAN MATEO COUNTY PERFORMANCE MWELO SUBMITTAL CHECKLIST, PLANT FACTORS OF MIXED HYDROZONES CAN, AND HAVE BEEN, CALCULATED "BASED ON THE PROPORTIONS OF THE RESPECTIVE PLANT WATER USES." CALCULATIONS FOR LOW WATER USE PLANTS IN MIXED HYDROZONES WILL USE 0.3 AND MODERATE USE PLANTS WILL USE 0.5.



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California 95825
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LANDSCAPE
IMPROVEMENT
PLANS FOR

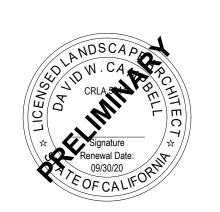
29 W SUMMIT DRIVE, EMERALD HILLS, CA

| BY | THOMAS JAMES HOMES

KEYMAP:

PLANTING NOTES AND WATER USE CALCULATIONS

DRAWN BY:
STAFF
CHECKED BY:
DWC
JOB NO.
00005
20035
DATE
DATE



L3.2

DRAWINGS IN SET:

SEE SHEET L3.1 FOR
PLANTING PLAN, L3.3 FOR
PLANTING DETAILS AND L3.4

FOR TREE PROTECTION PLAN

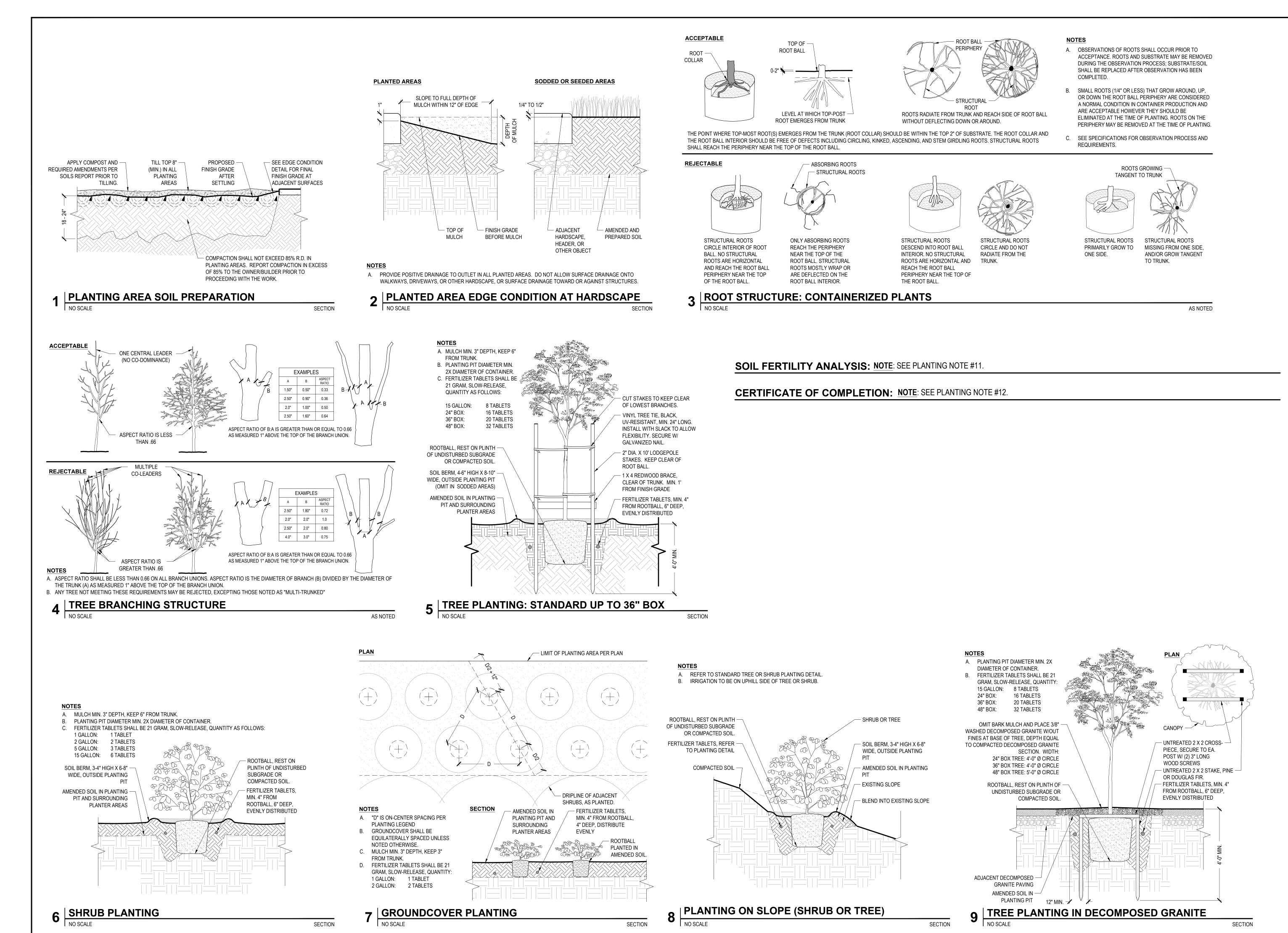
SIGNED

1/8" = 1'-0"

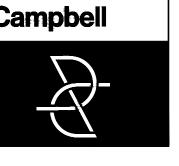
08/09/22

DATE

I HAVE COMPLIED WITH THE CRITERIA OF THE WATER CONSERVATION IN LANDSCAPE ORDINANCE AND HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN.



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**LANDSCAPE IMPROVEMENT PLANS FOR** 

29 W SUMMIT DRIVE, **EMERALD HILLS,** CA

**THOMAS JAMES HOMES** 

KEYMAP:

PLANTING DETAILS

DRAWN BY: CHECKED BY: JOB NO. 20035 06/13/2022 **REVISIONS:** 

# C. KEEP EXPOSED ROOTS MOIST. PUBLIC UTILITY -EASEMENT

#### TREE PROTECTION CHART

KEYNOTE	TAG#	STATUS	LOCATION	SCIENTIFIC NAME	COMMON NAME	DBH (in)	ACTION
1	3099	Protected	On-Site	Calocedrus decurrens	Incense Cedar	9	Remove
2	3100	Protected	On-Site	Pyrus	Pear	13	Remove
3	9600	Non-Protected	Off-Site	Sequoia sempervirens	Coast Redwood	45	Retain and Protect

- 1. REFER TO THE ARBORIST REPORT "TREE INVENTORY, CONSTRUCTION IMPACT ASSESSMENT AND TREE PROTECTION PLAN 29 W SUMMIT, EMERALD HILLS, CALIFORNIA " PREPARED BY CALIFORNIA TREE AND LANDSCAPE CONSULTING, INC. DATED JUNE 13, 2022 FOR FULL DETAILS.
- 2. TREES AND SHRUBS NOT IDENTIFIED WITHIN THE REPORT, BUT AS PART OF THE TOPOGRAPHICAL SURVEY, ARE INCLUDED FOR REFERENCE ONLY.
- 3. PROTECT ALL EXISTING ITEMS NOTED TO REMAIN OR OTHERWISE UN-LABELED.
- 4. EXISTING TREES TO REMAIN UNLESS NOTED OTHERWISE. DO NOT STOCKPILE, DRIVE OVER, OR OTHERWISE DISTURB SOIL UNDER DRIPLINES OF EXISTING TREES, EXCEPT AS REQUIRED FOR PLANTING OPERATIONS.
- 5. USE HAND TOOLS ONLY FOR SOIL CULTIVATION UNDER DRIPLINES OF EXISTING TREES TO REMAIN.
- 6. TREES NOTED TO BE REMOVED SHALL BE COMPLETELY REMOVED, INCLUDING STUMP AND ROOT MASS. REFER TO ARBORIST REPORT FOR INSTRUCTIONS ON REMOVING TREE STUMPS WITHIN PROTECTED TREE ROOT ZONES.
- 7. NO ROOTS OVER 2" IN DIAMETER SHALL BE CUT EXCEPT UNDER THE DIRECTION OF AN ARBORIST. ALL CUT ROOTS SHALL BE COVERED WITH BURLAP OR STRAW AND SHALL REMAIN MOIST UNTIL RE-BURIED IN SOIL.
- 8. CALL COMMON GROUND ALLIANCE (811) AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING WORK. CONTRACTOR IS RESPONSIBLE TO PROTECT FOR ALL EXISTING UTILITIES. SEE GENERAL NOTES, SHEET L1.1, FOR MORE INFORMATION.

#### **LEGEND**

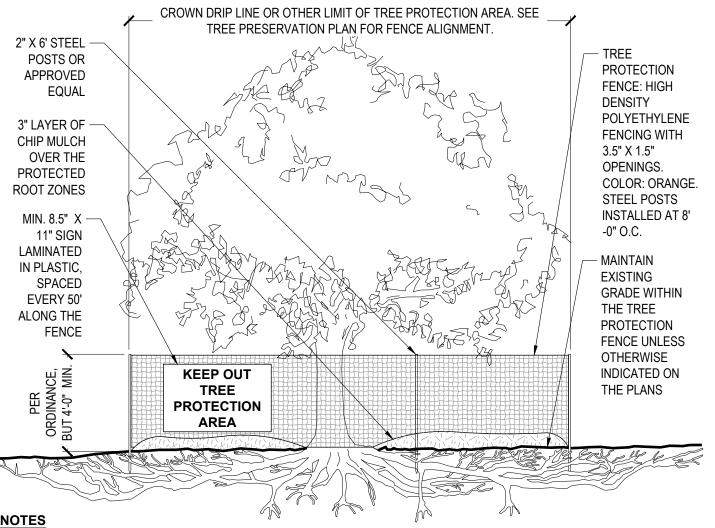


EXISTING TREE CANOPY, TYPICAL EXISTING TREE CANOPY, TYPICAL



TREES TO REMOVE, TYPICAL

TREE PROTECTION FENCING; REFER TO ARBORIST REPORT



A. SEE ARBORIST REPORT FOR ADDITIONAL PROTECTION REQUIREMENTS. COMPLY WITH ALL TREE PROTECTION REQUIREMENTS PER JURISDICTION. B. IRRIGATE AS NEEDED TO MAINTAIN HEALTH OF TREE.

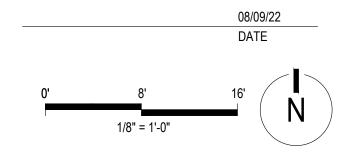
D. NO PRUNING SHALL BE PERFORMED EXCEPT UNDER THE DIRECTION OF APPROVED ARBORIST. E. NO EQUIPMENT SHALL OPERATE INSIDE THE

PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL. F. NO MATERIALS SHALL BE STORED INSIDE FENCE.

#### TREE PROTECTION FENCING

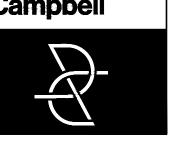
SECTION

I AGREE TO COMPLY WITH THE REQUIREMENTS OF THE WATER EFFICIENT LANDSCAPE ORDINANCE. I HAVE APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLANS AND SUBMIT A COMPLETE LANDSCAPE DOCUMENTATION





Roach & Campbell



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**LANDSCAPE IMPROVEMENT PLANS FOR** 

29 W SUMMIT DRIVE, EMERALD HILLS, CA

**THOMAS JAMES HOMES** 

KEYMAP:

TREE PROTECTION PLAN

AND NOTES DRAWN BY: STAFF

CHECKED BY: DWC JOB NO.

20035 DATE

06/13/2022 **REVISIONS:** 

