ABBREVIATIONS above above finished floor access floor access panel acoustical plaster acoustical tile acrylic plastic addendum adhesive adjacent aggregate air conditioning aiternate aiuminum american disability a anchor, anchorage anchor bolt anodized architect (ural) area drain asphalt concrete asphalt tile assessor parcel map automatic at radius rainwater leader reference reflect (d), (ing) refrigerator register reinforced conc pipe remove resilient return alr reverse (side) revision (s), revised right-of-way riser roof drain roof hatch roof rafter room rough opening rubber base rubber tille include (d), (ing) inside diameter interior invert iron pipe size incandescent international sign division of the door double acting double hung douglas fir double plate drain drainboard drawer drawing each face eave rafter electric (al) electrical panelboard electric water cooler elevation emergency electrical metallic tubing enclose (ure) equal equipment estimate excavate exhaust existing expanded metal plate expansion bolt exposed exterior extra strong each each way label laboratory lag bolt lag screw laminate (d) lavatory left hand length light lightweight limestone lintel pounds louver rubber tile safety glass santa clara county office of education schedule see civil drawings see structural drawings see mechanical drawings see electrical drawings seetions sheathing sheet shelf, shelving similar solid block solid core soundproof spacer speaker specification (s) square stainless steel standard station storage storm drain structural clay tile suspended symmetry (ical) sound transmission class SFGL SCCOE SCH SCD SSD SMD SED SEC SHTH SHT SH bath building pape basement bearing bearing plate bench mark below between bituminous block blocking board both sides both ways bottom brick bronze building built-up roofing machine bolt malleable iron manhole manufacture (er) marble masonry masonry opening material (s) maximum mechanical medicine cabinet metal metal floor decking minimum mirror miscellaneous modular molding, molding mount (ed), (ing) movable mullion each way face brick face of concrete face of finish face of masonry face of stud factory finish fence fiberboard fiber reinforced plastic finish (ed) finished floor elevation finished floor line fire alarm fire extinguisher fire extinguisher fire extinguisher cabinet fireplace fireproof file-resistant coating flashing floor (ing) floor (long) floor deanout floor drain fluorescent flush joint footing foundation frame (d), (ing) fresh air full size furnished by others furred (ing) future SPC SPC SPC SPEC SQ SST STA STO SD STR SCT SUS SYM STC cabinet cadmium california building code carpet (ed) casement cast iron cast-in-place concrete cast stone catch basin caulk (ing) ceiling ceiling height ceiling joist cement chain link fence ceramic ceramic tile ceramic tile ceramic mosaic (tile) chaikboard chamfer circle circumference clear (ance) clean out closure collaborative for high performance schools column compartment composition (composite compress (ed), (ion), (i concrete concrete masonry unit construction continue (ous) contract (or) control joint copper corner guard corrugated counterflashing course (s) cross grain cubic foot cubic yard center line cement plaster tackboard tackstrip telephone television terra cotta terrazzo thick (ness) threshold tollet paper dispens tongue and groove top of towel bar transom tread typical paint (ed) panel panic bar paper towel dispenser paper towel receptor parallel parking particle board partition path of travel pave (d), (ing) pavement pedestal perforate (d) perimeter planting area plaster plate glass plywood polyvinyichloride pounds per square foot precast concrete prefinished preformed pre-formed metal gutter property line, plate guarry tile uniform mechanical code uniform building code uniform plumbing code uniform fire code urinal unless noted otherwise TITLE 24 vinyl composition tile vapor barrier vertical vent through roof VCT VB VERT VTR TITLE 24 high handhole hardboard hardware hardwood head joint header heating heating/ventilation/ air conditioning heavy duty height hexagonal high early-strength cement hollow core hollow metal hook (s) horizontal hose bibb damper damp proofing demoilsh, demo demountable depressed detail diagonal diameter dimension dispenser division

SHEET INDEX GENERAL NOTES, INFORMATION AND SHEET INDEX GENERAL NOTES SURVEY AND TOPO OVERALL PROPOSED SITE PLAN SEPTIC PLAN SITE PLAN TREE REMOVAL/DRAINAGE PLAN AS-I AS-2 ROOF PLAN \$ SITE DETAILS AS-3 STORY POLE/EROSION PLAN FIRST FLOOR PLAN SECOND FLOOR PLAN NORTH SOUTH EXTERIOR ELEVATIONS EXTERIOR MATERIALS EAST. WEST EXTERIOR ELEVATIONS BUILDING SECTIONS ELECTRICAL PLANS A7 LANDSCAPE PLAN ARCHITECTURAL DETAILS HARDI PANEL DETAILS BMP NOTES GREEN BUILDING CODE GB-1 GREEN BUILDING CODE

PROJECT PRINCIPALS

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OWNER/BUILDER

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SEPTIC ENGINEER

CSW/ST2/STRUBER/STROEB

PROJECT DATA

PROJECT DESCRIPTION

LONGITUDE AND LATITUDE:

DESCRIPTION OF USE:

CONSTRUCTION TYPE:

UPPER FLOOR AREA

TOTAL FLOOR AREA

COUNTYWIDE PLAN DESIGNATION:

OCCUPANCY CLASSIFICATION:

PROPOSED BUILDING AREA:

LOWER FLOOR UTILITY SPACE:

PROPOSED FLOOR AREA RATIO:

PARKING AREA AB ROAD BASE:

DRIVEWAY ASPHALT APRON AREA

PROPOSED PERVIOUS LOT AREA:

PROPOSED IMPERVIOUS LOT COVERAGE:

MINIMUM SETBACKS FOR EXTERIOR WALLS:

* LANDSCAPING IRRIGATION SYSTEMS

* FIRE SPRINKLER SYSTEM

THE RESIDENCE.

25'-0" MAX.

6'-0"

LOWER FLOOR PAVER PATIO:

AB ROAD BASE DRIVEWAY:

UPPER FLOOR DECKS:

ONSITE PARKING:

NORTHERN FRONT

MAXIMUM HEIGHT:

EAST SIDE:

WEST SIDE

WILDLAND URBAN INTERFACE (WUI):

LOWER UNCONDITIONED FLOOR AREA:

LOCATION

ZONING:

STORIES:

LOT AREA:

JURISDICTION:

RICH SOUZA

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BIOLOGICAL ASSESMENT

AVOCET ASSOCIATES

JULES EVENS & ANNE PFLETT

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GREEN BUILDING NOTES

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

II DIRECTION TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE

1.2. OPERATIONS AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING:

1.2.1 EQUIPMENT AND APPLIANCES INCLUDING WATER -SAVING DEVICES AND OTHER SYSTEMS, HVAC SYSTEMS, WATER-HEAT SYSTEM, AND OTHER MAJOR APPLIANCES AND EQUIPMENT.

1.2.2 ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS 1.2.3 SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.

1.2.4 LANDSCAPE IRRIGATION SYSTEMS 1.2.5 WATER REUSE SYSTEMS

1.3 INFORMATION FROM LOCAL UTILITY WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLING PROGRAMS AND LOCATIONS PUBLIC TRANSPORTATION AND/OR CAR POOL OPTIONS AVAILABLE IN THE AREA.

1.4 EDUCATIONAL MATERIAL ON THE POSITIVE IMPACT OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-60 PERCENT AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY IN THAT RANGE.

1.5 INFORMATION ABOUT WATER -CONSERVING LANDSCAPE IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER.

I.G INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION. 1.7 INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING BUT NOT LIMITED TO CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC

1.8 INFORMATION ABOUT SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE. 1.9. A COPY OF ALL SPECIAL INSPECTIONS VERIFICATIONS REQUIRED BY THE AGENCY ENFORCING THE CODES

2. DURING CONSTRUCTION, ENDS OF DUCTS OPENINGS ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED.

3. THIRD PARTY VERIFICATIONS IS REQUIRED FOR MANDATORY CALGREEN MEASURES. 4. SEAL BUILDING ENVELOPE JOINTS AND OPENINGS ACCORDING TO CEC.

5. AUTOMATIC IRRIGATION SYSTEMS CONTROLLERS INSTALLED AT THE TIME OF FINAL INSPECTION SHALL BE WEATHER OR SOIL MOISTURE BASED

BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES

STORM WATER POLLUTION CONTROL REQUIREMENTS FOR CONSTRUCTION ACTIVITIES MINIMUM WATER QUALITY PROTECTION REQUIREMENTS FOR ALL DEVELOPMENT CONSTRUCTION PROJECTS/CERTIFICATION STATEMENT

THE FOLLOWING IS INTENDING MINIMUM NOTES OR AS AN ATTACHMENTS FOR CONSTRUCTION AND GRADING PLANS AND REPRESENTS THE MINIMUM STANDARDS OF GOOD CONSTRUCTION PRACTICE WHICH MUST BE IMPLEMENTED ON ALL CONSTRUCTION SITES REGARDLESS OF SIZE (APPLIES TO ALL PERMITS)

I. EXPOSED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE OR WINDS.

2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND

3. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.

4. NON-STORMWATER RUNOFF FROM EQUIPMENT AND VEHICLE WASHING AND ANY OTHER ACTIVITY SHALL BE CONTAINED ON THE PROJECT SITE

5. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTE ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE

6. TRASH AND CONSTRUCTION RELATED SOLID WASTE MUST BE DEPOSITED INTO A COVERED RECEPTABLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL 7. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY

VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAINS OR OTHER MEANS.

8. ANY SLOPE WITH DISTURBED SOIL OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.

APPLICABLE CODES

2022 CALIFORNIA RESIDENTIAL CODE (CRC)

2022 CALIFORNIA BUILDING CODE (CBC) (WHEN REFERENCE

2022 CALIFORNIA MECHANICAL CODE (CMC)

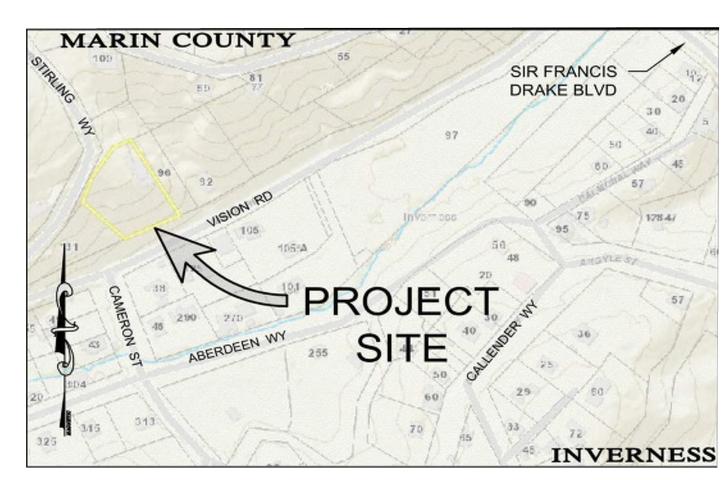
2022 CALIFORNIA ELECTRICALCODE (CEC)

2022 CALIFORNIA PLUMBING CODE (CPC)

2022 CALIFORNIA FIRE CODE

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

2022 CALIFORNIA ENERGY CODE (TITLE 24 ENERGY CODES)



VICINITY MAP

APPROVALS

PROPOSED CONSTRUCTION OF A NEW SINGLE-FAMILY RESIDENCE ON UNIMPROVED LOT IN INVERNESS. WORK SHALI

CONSIST OF REMOVING 17 BAY TREES AND 4 COASTAL OAK TREES (6 COASTAL OAK TREES TO BE PLANTED AS PART OF LANDSCAPE PLAN), ON A LOT WITH OVER 102 TREES, BUILDING AN AB ROAD BASE APPROX 81G SF

112-132-06

C-RSP-0.5

1535 SF

811 SF

104 SF

2450 SF

816 SF

1092 SF

198 SF

296 SF

240 SF

2690 SF

GRADING CALCULATIONS

CUT: 925 CY

FILL: 875 CY

OFF HAUL: 50 CY

TWO

DEFERRED SUBMITTALS

NOTE: A SEPERATE PERMIT FOR RESIDENTIAL FIRE SPRINKLER SYSTEM

IS REQUIRED AND THE SUBMITTAL, REVIEW AND APPROVAL OF THE PERMIT SHALL OCCUR PRIOR TO REQUESTING A ROUGH INSPECTION ON

28.350 SF

MARIN COUNTY

SINGLE FAMILY RESIDENCE

V-B FULLY SPRINKLED

30.800 SF- .7 ACRE

STIRLING WAY, INVERNESS, CA 94937

C-SF3 RURAL RESIDENTIAL COASTAL ZONE

2450 SF (BOTH STORIES & UNCOND.SPACE)

PROPOSED SETBACKS FOR EXTERIOR WALLS:

160'-0"

31'-0"

NORTHERN FRONT:

MAXIMUM HEIGHT:

SOUTHERN REAR:

EAST SIDE:

WEST SIDE:

DRIVEWAY WITH SOLDER PILE RETAINING WALLS, 1092 SF PARKING AREA IN AB ROAD BASE, NEW SINGLE-FAMILY

HOME AND ONSITE SEPTIC SYSTEM WITH ALL RELEVANT SITE IMPROVEMENTS PER PLAN.

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REVISIONS

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OWNER

94937

PROJECT

 σ

DATE: JAN. 13,2023

DRAWN BY:

SCALE: AS SHOWN



GENERAL ARCHITECTURAL NOTES:

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

PROJECT NOTES:

- I. THE WORK INCLUDED UNDER THESE DRAWINGS CONSISTS OF ALL LABOR, MATERIALS, TRANSPORTATION, TOOLS AND EQUIPMENT NECESSARY FOR THE CONSTRUCTION OF THE PROJECT - LEAVING ALL WORK READY FOR USE.
- 2. THE PLANS INCLUDE THE GENERAL EXTENT OF NEW CONSTRUCTION NECESSARY FOR THE WORK BUT ARE NOT INTENDED TO BE ALL-INCLUSIVE, ALL WORK NECESSARY TO ALLOW FOR A FINISHED JOB IN ACCORDANCE WITH THE INTENTION OF THE DRAWINGS IS INCLUDED REGARDLESS OF WHETHER SHOWN ON THE DRAWINGS OR
- 3. ANY ERRORS, OMISSIONS OR CONFLICTS FOUND IN THE VARIOUS PARTS OF THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER FOR CLARIFICATION BEFORE PROCEEDING.
- 4. THE GENERAL CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DRAWINGS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION FOR USE BY ALL TRADES AND SHALL PROVIDE ALL SUBCONTRACTORS WITH CURRENT CONSTRUCTION DRAWINGS AS REQUIRED.
- 5. COORDINATE ALL ARCHITECTURAL WORK WITH STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND INTERIOR DESIGN CONDITIONS BEFORE THE ORDERING OF, OR THE INSTALLATION OF, ANY ITEM OF WORK.
- 6. UTILITY SERVICE AND EMERGENCY SERVICES ARE TO BE MAINTAINED FOR THE SITE BY THE CONTRACTOR DURING THE DEMOLITION AND CONSTRUCTION PHASES OF WORK.
- 7. THE GENERAL CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS DAILY OF ALL SUBCONTRACTORS AND TRADES, AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING TO PREVENT ANY DEBRIS OR DUST FROM AFFECTING, IN ANY WAY, FINISHED AREAS IN OR OUTSIDE THE JOB SITE.
- 8. PROTECT ALL EXISTING SITE CONDITIONS TO REMAIN INCLUDING TREES, SHRUBS, PAVING, FENCES, ETC.
- 9. WRITTEN DIMENSIONS TAKE PRECEDENCE. DO NOT SCALE DRAWINGS.
- 10. ALL DIMENSIONS NOTED VIF ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION, REPORT ANY VARIANCES TO THE DESIGNER PRIOR TO PROCEEDING.
- II. DIMENSIONS ARE TO CENTERLINE OF GRIDS, COLUMNS, STUDS, WINDOWS, DOORS AND FIXTURES, OR TO FACE
- 12. INSTALL ALL FIXTURES, EQUIPMENT, AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS.
- 13. INSTALLATION INSTRUCTIONS FOR ALL LISTED EQUIPMENT SHALL BE PROVIDED TO THE FIELD INSPECTOR AT TIME
- 14. FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS AND STANDARDS, AND INDUSTRY AND BUILDING PRACTICES FOR SEALANT, CAULKING, AND FLASHING LOCATIONS.
- 15. PROVIDE BACKING AS REQUIRED FOR INSTALLATION OF EQUIPMENT, FIXTURES, ACCESSORIES, AND CASEWORK.
- I.G. STRUCTURAL OBSERVATIONS SHALL BE COMPLETED AND ACCEPTED BY THE ENGINEER OF RECORD WITH NO

CONSTRUCTION MANAGEMENT PLAN:

CONDITIONS PRIOR TO FOUNDATION, SHEAR, AND FRAME INSPECTIONS.

- 17. EXISTING UTILITIES: CONTRACTOR TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES IN THE FIELD. NOTIFY THE DESIGNER OF ANY DISCREPANCIES WITH THE DRAWINGS PRIOR TO COMMENCING WORK.
- 18. SHOULD THE PROJECT BE LOCATED WITHIN THE LAKE TAHOE BASIN, THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH TRPA CONSTRUCTION REQUIREMENTS.
- 19. CONSTRUCTION TRAILER, PORTABLE TOILET, AND DUMPSTER SHALL BE LOCATED WITHIN THE BOUNDARIES OF THE AREA OF DISTURBANCE.
- 20. ACCESS: CONSTRUCTION ACCESS TO THE BUILDING SITE SHALL BE OVER THE PROPOSED DRIVEWAY ONLY. PROVIDE ONGOING PROTECTION OF EXISTING VEGETATION DURING ALL PHASES OF CONSTRUCTION UNTIL
- 21. PARKING: COMPLY WITH THE REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION.
- 22. MATERIAL STORAGE/DELIVERY: ALL BUILDING MATERIALS, EQUIPMENT, AND MACHINERY, ARE TO BE DELIVERED TO AND REMAIN WITHIN THE BOUNDARIES OF THE AREA OF DISTURBANCE.
- 23. DEBRIS AND WASTE REMOVAL: CLEAN UP TRASH AND DEBRIS AT THE END OF EACH DAY. REMOVE FROM THE CONSTRUCTION SITE AT LEAST ONCE A WEEK. CONSTRUCTION SITE SHALL BE KEPT NEAT AND SHALL NOT BE AN EYESORE, NUISANCE, OR DETRIMENT TO NEIGHBORING PROPERTIES.
- 24. HOURS OF CONSTRUCTION: COMPLY WITH THE REQUIREMENTS OF ALL AGENCIES HAVING JURISDICTION.
- 25. FIRE SAFETY: CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL FIRE SAFETY REGULATIONS, INCLUDING BUT NOT LIMITED TO PROVIDING A MINIMUM OF 1 SHOVEL AND TWO 20LB AB CRATED DRY CHEMICAL FIRE EXTINGUISHERS MOUNTED IN PUBLIC VIEW.
- 26. TEMPORARY POWER, SIGNS, SURVEY LINES, ETC. SHALL NOT BE NAILED TO TREES.

WILDLIFE URBAN INTERFACE (WUI) NOTES:

- 27. THIS PROJECT IS LOCATED IN AN AREA SUBJECT TO THE REQUIREMENTS OF CRC SECTION R337 WILDLAND URBAN INTERFACE AND THE CONSTRUCTION MATERIALS OR ASSEMBLIES SHALL BE APPROVED BY OSFM BML.
- 28. VEGETATION MANAGEMENT R337.1.5: PRIOR TO BUILDING PERMIT FINAL APPROVAL, THE PROPERTY SHALL BE IN COMPLIANCE WITH THE VEGETATION MANAGEMENT REQUIREMENTS PRESCRIBED IN CALIFORNIA FIRE CODE SECTION 4906, INCLUDING CALIFORNIA PUBLIC RESOURCES CODE 4291.
- 29. ROOF COVERING REQUIREMENT PER CRC 337.5: CLASS A ROOF ASSEMBLY. CERTAINTEED ULTIMATE TL COMP TL OVER 2 LAYER 30 LB ROOF UNDERLAYMENT
- 30. ROOF VALLEY REQ PER CRC 337.5: 26 GAUGE MIN. CORROSION-RESISTANT METAL SHEET METAL OVER I LAYER MIN. 72 LB F(BERGLASS (MINERAL-SURFACED) NON-PERFORATED CAP SHEET COMPLYING WITH ASTM D 3909 INSTALLED OVER COMBUSTIBLE DECKING AT LEAST 36 INCHES WIDE.
- 31. ROOF GUTTER REQUIREMENT PER CRC 337.5 A, SHALL BE PROVIDED WITH THE MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS IN THE GUTTER. (ES REPORT PROVIDED TO VERIFY CLASS A COMPLIANCE): CORROSIVE RESISTANT GUTTER SCREEN AT ALL GUTTERS.
- 32. EAVE VENT REQUIREMENT PER CRC 337.6.
- 33. EAVE, SOFFIT, AND FLOOR PROJECTIONS PROTECTION REQUIREMENT PER CRC 337.7: (ES REPORT PROVIDED TO VERIFY CLASS A COMPLIANCE), SHALL BE NON-COMBUSTIBLE MATERIAL, IGNITION RESISTANT MATERIAL OR ONE LAYER OF 5/8 " TYPE X EXTERIOR RATED GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING ON THE UNDERSIDE OF THE EAVE OR SOFFIT.: REQUEST TO USE ALTERNATE BACKING IN PLACE OF 5/8" TYPE X GYPSUM BOARD, 1/4" FIBER CEMENT BOARD BEHIND 3/4" WOOD SOFFIT.
- 34. EXTERIOR WALL COVERINGS PER CRC 337.7.3:(ES REPORT PROVIDED TO VERIPY CLASS A COMPLIANCE), EITHER NON-COMBUSTIBLE MATERIAL, IGNITION RESISTANT MATERIAL, ONE LAYER OF 5/8 * TYPE X EXTERIOR RATED GYPSUM SHEATHING APPLIED BEHIND AN EXTERIOR COVERING, OR AN ASSEMBLY APPROVED BY THE OSFM BML.: FLAMEBOCK CLASS A FIRE-RATED OSB SHEATHING.
- 35. EXTERIOR WALL VENTS PER CRC 337.6:
- 36. EXTERIOR GLAZING PER CRC 337.8.2: MIN. OF / PANE SAFETY TEMPERED GLAZING ON ALL EXTERIOR WINDOWS
- 37. EXTERIOR DOOR ASSEMBLIES PER CRC 337.6: ALUMINUM CLAD DOORS AND WINDOWS (NON-COMBUSTIBLE). WOOD DOORS: RAIL/STILE MORE THAN 1 3/8" AND PANELS MORE THAN 1 1/4". 20 MIN. RATING MIN.
- 36. DECKING AND STAIR SURFACES PER CRC 337.9, SHALL BE 1-1/4 INCH MINIMUM THICKNESS SOLID WOOD OR A PRODUCT APPROVED BY OSFM BLM.: NON-COMBUSTIBLE STONE WALKS, STAIRS, AND PATIOS. FIRE RATED COMPOSITE DECKING.

GENERAL FIRE SYSTEM NOTES:

- 39. THE CONTRACTOR SHALL DESIGN & PROVIDE HEATING, COOLING, VENTILATION, PLUMBING, FIRE SUPPRESSION AND ELECTRICAL SYSTEMS AS INDICATED, REFER TO SPECIFICATIONS AND MEP PLANS, PERFORM ALL WORK IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND/OR LOCAL CODES, LAWS, ORDINANCES, RULES AND REGULATIONS INCLUDING BUT NOT LIMITED TO THE REQUIREMENTS CONTAINED IN THE NOTES BELOW. COMPLY W/ THE REQUIREMENTS OF CALIF. TITLE 24, ENERGY CALCULATIONS AND MANDATORY MEASURES.
- 40. ELECTRICAL/MECHANICAL/PLUMBING LAYOUT IS SCHEMATIC. REFER TO SPECIFICATIONS FOR PRODUCT SUBMITTAL DATA AND SHOP DRAWING REQUIREMENTS. VERIFY ALL LAYOUTS IN FIELD W/OWNER # DESIGNER. CONTRACTOR SHALL SCHEDULE A WALK-THROUGH WHEN THE STRUCTURE IS SUBSTANTIALLY FRAMED. NOTIFY DESIGNER WHEN READY
- 41. DO NOT SOFFIT FOR ELECT/MECH/PLUMB SYSTEMS UNLESS SPECIFICALLY NOTED ON PLANS. IF ADDITIONAL SOFFITS ARE REQUIRED, REVIEW WITH DESIGNER IN ADVANCE FOR APPROVAL.
- 42. PROVIDE ACCESS AND WORKING SPACE CLEARANCES FOR SERVICE, INSPECTION AND REPLACEMENT OF

- 43. CAL GREEN MANDATORY MEASURES AND MITIGATION
- 44. SITE DEVELOPMENT (4.106) STORM WATER DRAINAGE DURING CONSTRUCTION

APPLIANCES AND EQUIPMENT AS REQUIRED BY CODE AND MFR.

- 45. SEE SITE PLAN C1.0 FOR TEMPORARY PROTECTIVE MEASURES.
- 46. MULTIPLE SHOWER HEADS SERVING ONE SHOWER (4.303.2) COMBINED FLOW RATES OF ALL THE SHOWER HEADS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED MAXIMUM FLOW RATE SPECIFIED IN TABLE
- A. SHOWER HEADS: 2 GPM
- B. LAVATORY FAUCETS: 1.5 GPM
- C. KITCHEN FAUCETS: 1.8 GPM D. WATER CLOSETS: 1.28 GALLONS/FLUSH
- E. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWER HEAD, THE COMBINED FLOW RATE OF ALL SHOWER HEADS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 2.0 GALLONS PER MINUTE AT 80 PSI.
- 47. OUTDOOR WATER USE (4.304) AUTOMATIC IRRIGATION CONTROLLERS AND SHALL BE WEATHER BASED IRRIGATION ON MANUAL SWITCH PER LANDSCAPE DESIGNER
- 48. JOINTS AND OPENINGS (4.406) ANNULAR SPACE AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE ENFORCING AGENCY. CONTRACTOR SHALL COMPLY WITH SECTION 4.406.1 RODENT
- 49. CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING (4.408) CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING: RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 50 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE.
- 50. BUILDING MAINTENANCE AND OPERATION (4.410) OPERATION AND MAINTENANCE MANUAL PROVIDED TO
- 51. POLLUTANT CONTROL (4.504) SEALED DUCT OPENINGS AND VOC IN FINISH MATERIALS. AT THE TIME OF ROUGH INSTALLATION. AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATION EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED.
- 52. INTERIOR MOISTURE CONTROL (4,505) VAPOR RETARDER INSTALLED AT SLAB ON GRADE FOUNDATIONS/MOISTURE CONTENT OF BUILDING MATERIALS CHECKED BEFORE ENCLOSURE. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19 PERCENT MOISTURE CONTENT. MOISTURE CONTENT SHALL BE VERIFIED BY MEANS OF MOISTURE READINGS USING A MOISTURE METER. SEE DETAILS SHEET A-02.04. FOR REQUIRED VAPOR RETARDER, CONTRACTOR TO PERFORM AND SUBMIT MOISTURE CONTENT TO ENFORCING AGENCY.
- 53. BATHROOM EXHAUST FANS (4.506.1) EACH BATHROOM SHALL BE MECHANICALLY VENTILATED UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A
- 54. ENVIRONMENTAL COMFORT (4.507) WHOLE HOUSE EXHAUST FANS/HEAT LOSS GAIN VALUES/SIZE DUCTS/ HEATING AND COOLING EQUIPMENT ACCORDING TO ACCA 3G-S OR EQUIVALENT, FANTECH HRV'S OR EQUAL IN MECHANICAL ROOM / ATTIC SPACE. HVAC SUB-CONTRACTOR TO SIZE AND INSTALL PER CAL GREEN
- 55. QUALIFICATIONS (702) HVAC SYSTEM INSTALLERS ARE TRAINED AND CERTIFIED
- 56. VERIFICATIONS (703) VERIFICATION OF COMPLIANCE WITH THIS CODE

GENERAL MECHANICAL NOTES:

- 57. HVAC SYSTEMS SHALL BE SIZED, DESIGNED AND EQUIPMENT SELECTED USING THE METHODS OUTLINED IN CALGREEN RESIDENTIAL MANDATORY MEASURES, SEC4.507-ENVIRONMENTAL COMFORT.
- 58. ALL DUCT SIZES PER ASHRAE 62.2 TABLE 7.1.
- 59. PROVIDE COMBUSTION AIR TO MECHANICAL ROOMS & EQUIPMENT AS REQUIRED BY CODE & EQUIPMENT MFR.CMC 701
- 60. CLOTHES DRYER EXHAUST DUCTS SHALL COMPLY WITH CMC SECTION 504.4 AND SHALL BE OF RIGID METAL WITH SMOOTH INTERIOR SURFACES AND SHALL NOT BE ASSEMBLED WITH SCREWS OR OTHER FASTENING MEANS THAT EXTEND INTO THE DUCT THAT WOULD CATCH LINT, CLOTHES DRYER EXHAUST DUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CLOTHES DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS. LISTED CLOTHES DRYER TRANSITION DUCTS NOT MORE THAT 6 FEET IN LENGTH SHALL BE PERMITTED TO BE USED IN CONNECTION WITH DOMESTIC DRYER EXHAUSTS. FLEXIBLE CLOTHES DRYER TRANSITION DUCTS SHALL NOT BE CONCEALED WITHIN CONSTRUCTION UNLESS PROVIDED WITH AN ENGINEERED SYSTEM OR OTHERWISE PERMITTED OR REQUIRED BY THE DRYER MANUFACTURER'S INSTRUCTIONS AND APPROVED BY THE AUTHORITY HAVING JURISDICTION, DOMESTIC DRYER MOISTURE EXHAUST DUCTS SHALL NOT EXCEED A TOTAL COMBINED HORIZONTAL AND VERTICAL LENGTH OF 14 FT INCLUDING (2) 90 DEGREE ELBOWS. A LENGTH OF TWO FT SHALL BE DEDUCTED FOR EACH 90 DEGREE ELBOW IN EXCESS OF TWO, CLOTHES DRYER SHALL VENT TO OUTSIDE AND BE EQUIPPED WITH A BACK-DRAFT DAMPER.
- 61. TERMINATE HORIZONTAL OR SIDE WALL MECHANICAL DRAFT VENTING SYSTEMS NOT LESS THAN 4' BELOW OR 4' HORIZONTALLY FROM, AND NOT LESS THAN 1' ABOVE A DOOR, AN OPERABLE WINDOW OR A GRAVITY AIR INLET INTO A BUILDING PER CMC 802.8.1 (SEE CMC SECTION 802.8.2 FOR VENT TERMINALS OF DIRECT VENT APPLIANCES.) DIRECT VENT APPLIANCES SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. THE VENT HEIGHT SHALL BE ABOVE THE ANTICIPATED SNOW DEPTH.
- 62. PROVIDE MECHANICAL WHOLE BUILDING VENTILATION IN ACCORDANCE WITH SECTION 4 OF ASHRAE STANDARD 62.2 . VENTILATION RATE SHALL BE 1 CFM PER EVERY 100 SF OF CONDITIONED FLOOR AREA (CFA) PLUS 7.5 CFM PER OCCUPANT PLUS | OR | OCCUPANT PER BEDROOM PLUS |. A LOCAL EXHAUST FAN CAN BE USE TO MEET THIS REQUIREMENT. LOCAL FAN MUST OPERATE AT I SONE OR LESS AT .25 IN. W.C. AND MUST VENT DIRECTLY TO THE OUTSIDE. CHAPTER 4 OF THE RESIDENTIAL COMPLIANCE MANUAL. AIRFLOW SHALL BE CONFIRMED THROUGH FIELD VERIFICATION AND DIAGNOSTIC TESTING IN ACCORDANCE WITH THE APPLICABLE PROCEDURES SPECIFIED IN REFERENCE APPENDIX RA3.7.
- 63. EXHAUST VENTS SHALL BE PROVIDED W/ BACK-DRAFT DAMPERS AND EXHAUST FANS TO VENT DIRECTLY TO OUTSIDE TERMINATING 3' MIN. FROM BUILDING OPENINGS PER CMC 504.5,
- 64. WHOLE HOUSE EXHAUST FANS SHALL HAVE INSULATED LOUVERS OR COVERS THAT CLOSE WHEN FAN IS OFF. COVERS OR LOUVERS SHALL HAVE A MINIMUM INSULATION VALUE OF R-4.2.
- 65. WHOLE HOUSE FAN IN BATHROOM MUST BE LABELED "WHOLE HOUSE FAN".
- GG. KITCHEN MIN. 100 CFM OR CEILING OR WALL EXHAUST FAN THAT SUPPLIES 5 AIR CHANGES PER HOUR.
- 67. BATHROOM EXHAUST FANS SHALL BE RATED AT 50CFM MIN PER ASHRAE 62.2, AND I SONE MAX. FOR CONTINUOUS (3 SONE MAX. FOR INTERMITTENT).
- 68. EXHAUST FANS FOR BATHROOMS THAT CONTAIN A SHOWER, TUB, OR TUB/SHOWER SHALL COMPLY WITH THE REQUIREMENTS INCLUDED IN CALGREEN RESIDENTIAL MANDATORY MEASURES, SECTION4.506,INDOOR AIR

- 69. CONTRACTOR SHALL PROVIDE MECHANICAL SYSTEMS MANUAL WHICH SHALL INCLUDE: EXPLANATION OF BASIC VENTILATION SYSTEM CONCEPT AND EXPECTED PERFORMANCE, INSTALLATION MANUALS FOR ALL EQUIPMENT, SYSTEM OPERATION INSTRUCTIONS, AND SYSTEM AND EQUIPMENT MAINTENANCE REQUIREMENTS.
- 70. HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS AS REQUIRED BY CALGREEN RESIDENTIAL MANDATORY MEASURES SECT. 702
- 71. WHEN PROVIDED, RADIANT IN-FLOOR HYDRONIC HEATING SYSTEM SHALL BE INSTALLED PER CMC CHAPTER 12
- 72. GAS UTILIZATION APPLIANCES IN GARAGES AND IN ADJACENT SPACES THAT OPEN TO THE GARAGE AND ARE NOT PART OF THE LIVING SPACE OF A DWELLING UNIT SHALL BE INSTALLED SO THAT BURNERS AND BURNER- IGNITION DEVICES ARE LOCATED NOT LESS THAN 18 INCHES ABOVE THE FLOOR UNLESS LISTED AS FLAMMABLE VAPOR IGNITION RESISTANT - NFPA 54:9.1.1. APPLIANCES INSTALLED IN GARAGES, WAREHOUSES, OR OTHER AREAS SUBJECT TO MECHANICAL DAMAGE SHALL BE GUARDED AGAINST SUCH DAMAGE BY BEING INSTALLED BEHIND PROTECTIVE BARRIERS OR BY BEING ELEVATED OR LOCATED OUT OF THE NORMAL PATH OF VEHICLES(CMC305. I).
- 73. PROVIDE OPENINGS TO CONNECT INDOOR SPACES FOR COMBUSTION AIR WHERE REQUIRED. EACH OPENING SHALL HAVE A FREE AREA OF NOT LESS THAN I SQ. IN. PER I . OOOBTU/H OF THE TOTAL INPUT RATING OF APPLIANCES IN THE 5PACE, BUT NOT LESS THAN 100 SQ. IN. ONE OPENING SHALL COMMENCE WITHIN 12 INCHES OF THE TOP, AND ONE OPENING SHALL COMMENCE WITHIN 12 INCHES OF THE BOTTOM OF THE ENCLOSURE. THE DIMENSIONS OF AIR OPENINGS SHALL NOT BE LESS THAN 3 INCHES, CMC 701.5
- 74. GAS VENTS OVER I 2" IN DIAMETER OR WITHIN & FEET OF A VERTICAL WALL SHALL TERMINATE NOT LESS THAN 3 FEET ABOVE THE HIGHEST POINT WHERE THEY SHALL NOT PASS THROUGH THE ROOF AND AT LEAST 2 FEET HIGHER THAN ANY PORTION OF THE BUILDING WITHIN 10 FEET. GAS VENTS SMALLER THAN 12" IN DIAMETER AND MORE THAN 8 FEET AWAY FROM A VERTICAL WALL MAY TERMINATE A MINIMUM I FOOT ABOVE THE ROOF UP TO A 6: I 2 PITCH. FOR HIGHER ROOF PITCHES, REFER TO CMC TABLE 802.6.2.
- 75. RESIDENTIAL HVAC SYSTEMS BOTH EXISTING AND NEW, AND PARTS THEREOF SHALL BE INSPECTED IN ACCORDANCE WITH ACCA 4QM. THE OWNER OR OWNER'S DESIGNATED AGENT SHALL BE RESPONSIBLE FOR MAINTENANCE OF MECHANICAL SYSTEMS AND EQUIPMENT. TO DETERMINE COMPLIANCE WITH THIS SUBSECTION. THE AUTHORITY HAVING JURISDICTION SHALL BE PERMITTED TO CAUSE AN HVAC TO BE REINSPECTED.

RESIDENTIAL ASSEMBLY NOTES:

- 76. REFER TO PROJECT SPECIFICATIONS FOR INFORMATION ON PRODUCTS LISTED IN THE FLOOR, ROOF AND WALL ASSEMBLIES.
- 77. INTERIOR FINISH MATERIALS SHOWN ON PLANS ARE SUGGESTIVE BUT REFER TO FINISH SCHEDULE FOR SPECIFIC SCHEDULED INTERIOR FINISHES.
- 78. PROVIDE FIRE BLOCKING & DRAFT STOPPING AS REQUIRED BY CODE. SEE BUILDING SECTION SHEET NOTES FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 79. PROVIDE REINFORCED BACKING ATTACHED TO FRAMING AT WALLS & CEILINGS AS REQUIRED TO SUPPORT ALL EQUIPMENT, FIXTURES, FURNISHINGS, HARDWARE & ACCESSORIES, ETC. VERIFY W/ ARCHITECT AND INTERIOR
- 80. ALL INTERIOR PARTITIONS SHALL EXTEND TO STRUCTURE, UNLESS NOTED OTHERWISE.
- 81. WOOD STUD SIZES SHOWN ARE THE MINIMUM REQUIRED AND STUD SPACING IS THE MAXIMUM ALLOWED. REFER TO THE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND OTHER REQUIREMENTS.
- 82. REQUIRED STRUCTURAL PLYWOOD SHEATHING IS NOT SHOWN ON ALL WALL ASSEMBLIES. REFER TO STRUCTURAL DRAWINGS FOR LOCATIONS AND REQUIREMENTS FOR PLYWOOD SHEATHING.
- 63. PROVIDE CEMENTITIOUS BACKER BOARD @ WALL AREAS SCHEDULED TO RECEIVE TILE WAINSCOT.
- 84. PAVING \$ SLAB ASSEMBLIES: CONSTRUCT IN ACCORDANCE WITH GEOTECHNICAL REPORT RECOMMENDATIONS. 85. INSTALL AN APPROVED SELF-ADHERED SHEET ICE DAM BARRIER PER THE MANUFACTURER'S SPECIFICATIONS THAT EXTENDS FROM THE EAVE EDGE OF THE ROOF UP THE ROOF SLOPE MEASURED 5 FEET BEYOND THE WALL LINE SEPARATING THE CONDITIONED AND UNCONDITIONED SPACE, AND UP 30 INCHES ALONG EACH SIDE OF A VALLEY. THIS ICE DAM BARRIER SHALL BE IN ADDITION TO ANY UNDERLAYMENT OTHERWISE REQUIRED BY THE MANUFACTURER.
- 86. WHERE APPLICABLE, PROVIDE A PROTECTIVE COVER OVER THE GAS METER ASSEMBLY IN ACCORDANCE WITH 2012
- 87. GUARDS SHALL BE 42" IN HEIGHT, INTERMEDIATE RAILS OR ORNAMENTAL PATTERN SUCH THAT A SPHERE 4" IN DIAMETER CANNOT PASS THROUGH, CRC 312
- 88. AN ASTM LISTED LOCKABLE SAFETY COVER IS REQUIRED FOR ALL SELF CONTAINED SPAS.
- 89. THE GARAGE SHALL BE SEPARATED FROM THE DWELLING AND ITS ATTIC AREA BY MEANS OF A MINIMUM № INCH GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN A 5/8 INCH TYPE X GYPSUM BOARD OR EQUIVALENT.
- 90. HANDRAILS SHALL BE PROVIDED ON AT LEAST ONE SIDE OF EACH CONTINUOUS RUN OR FLIGHT OF STAIRS WITH 4 OR MORE RISERS. THE HEIGHT OF THE HANDRAILS MUST BE BETWEEN 34. AND 38" ABOVE THE NOSING OF THE TREADS. HANDRAILS NEED TO BE OF A GRASPABLE DESIGN; CIRCULAR WITH A CROSS SECTION OF 1/4 "TO 2" WIDE OR A PERIMETER DIMENSION OF 4 " TO 6 1/2" WITH A CROSS SECTION OF 2 1/4 " IF NOT CIRCULAR AND HAVE 1 1/2" CLEARANCE BETWEEN THE WALL AND THE HANDRAIL, THE ENDS OF THE HANDRAIL MUST BE RETURNED OR TERMINATE
- 91. KITCHEN RANGE ANTI-TIP DEVICE (STRAP TO WALL)
- 92. DISHWASHER REQUIRES AN AIR GAP

OF THE ROOFING SYSTEM.

- 93. MECHANICAL ROOM CEILING REQUIRES THERMAL/FLAME BARRIER MUST DRYWALL/TAPE ROOM AND SPRAY FOAM
- 94. DOOR TO MECHANICAL ROOM REQUIRES SEAL AROUND DOOR (GASKETED WEATHER STRIPPING) AND THRESHOLD TO
- 95. GARAGE MAN DOOR NEEDS TO BE SELF-CLOSING AND SELF-LATCHING

INSULATION. TAPE AROUND THE PIPES GOING TO THE UPPER LEVEL.

- 96. AT ELECTRICAL METER MAIN, PERMANENTLY LABEL ALL BREAKERS.
- 97. T#P (WATER HEATER) DISCHARGE MUST BE 6 " OFF FINISHED GRADE AND NO MORE THAN 24 " OFF FINISHED GRADE
- 98. ALL FIXED METAL WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY MUST BE BONDED (GROUNDED). THIS RELATES TO STRUCTURAL METAL POST, METAL SIDING, WINDOW FRAME, STEEL GUARDRAIL AND METAL ABOVE. CEC
- 99. EXTERIOR SCONCE LIGHTS ARE NOT "T PERMITTED TO BE WITHIN 5 FEET HORIZONTALLY AND 12 FEET VERTICALLY OF SPA FOR NEW CONSTRUCTION AND THE RULE IS 5 AND 5 FOR EXISTING, MIGHT BE ABLE TO GFI THEM. CECG80.22(B)
- TOO. WINDOW ADJACENT TO SPAS MUST BE PERMANENTLY ETCHED AS TEMPERED GLASS SINCE IS WITHIN 6 HORIZONTAL FEET OF SPA. DOUBLE TEMPERED. CRC R 308.4(C)(5)
- 101. PERMANENTLY LABEL SPA DISCONNECT.

GENERAL RADIANT NOTES:

- 103. RADIANT CONTRACTOR SHALL BE RESPONSIBLE FOR SITE VERIFICATION OF EXISTING CONDITIONS, AND PROPER
- 104. ALL NEW RADIANT EQUIPMENT AND APPLIANCES TO BE INSTALLED ACCORDING TO MANUFACTURERS'
- 105. RADIANT SYSTEM TO PROVIDE CONSTANT, EVEN TEMPERATURE THROUGHOUT HOUSE.
- I OG. EACH RADIANT ZONE TO HAVE INDIVIDUAL THERMOSTAT AND TEMPERATURE SENSOR ZONES

GENERAL PLUMBING NOTES:

- 107. ALL WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- 108. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SITE VERIFICATION OF EXISTING CONDITIONS, AND
- 109. ALL PLUMBING FIXTURES ARE TO BE SELECTED BY OWNER, REFER TO SPECIFICATIONS FOR MORE
- I IO. ALL NEW PLUMBING FIXTURES AND FITTINGS TO BE INSTALLED ACCORDING TO MANUFACTURERS'
- I I 2. ALL WATER SUPPLY PIPING SHALL BE PROTECTED FROM FREEZING BY AMIN. 36"OF EARTH COVERING. WHEN STRUCTURAL CONDITIONS NECESSITATE INSTALLATION OF WATER PIPING IN EXTERIOR WALLS OR ABOVE CEILINGS, THE PIPES SHALL BE INSTALLED TO THE INSIDE FACE OF FRAMING AND INSULATED ON THE UNHEATED SIDE OF THE PIPES WITH INSULATION EQUIVALENT TO THE R VALUE REQUIRED FOR THE WALL OR CEILING, PLUMB SINKS ON EXTERIOR WALLS FROM FLOOR BELOW. WATER PIPING SHALL NOT BE INSTALLED OR CONCEALED IN UNHEATED
- III3. THE WATER SUPPLY SYSTEM, INCLUDING HOT AND COLD, SHALL BE DESIGNED AND INSTALLED FOR WINTERIZATION AND FREEZE PROTECTION, SUCH AS ALLOWING FOR ROUTINE DRAINAGE OF THE SYSTEM TO PREVENT FREEZING. THE WATER SUPPLY SHALL BE EQUIPPED WITH A READILY ACCESSIBLE SHUT OFF VALVE. VALVE(5) AND/OR DRAIN PORT(5) WHEN USED SHALL BE READILY ACCESSIBLE, INSULATED FOR PROTECTION FROM FREEZING, AND SHALL BE PROTECTED FROM THE POTENTIAL FOR BACKFLOW.
- I 15. PLUMBING CONTRACTOR SHALL COORDINATE WATER SERVICE REQUIREMENTS FOR LANDSCAPE IRRIGATION.
- I I.G. PROVIDE AN APPROVED DISHWASHER AIR GAP FITTING ON THE DISCHARGE SIDE OF THE DISHWASHER PER CPCS
- I I 9. PROVIDE HOT WATER RECIRCULATING SYSTEM W/ ALL SECTIONS OF PIPE INSULATED FOR ENTIRE LENGTH. USE I "THICK, R-4 INSULATION FOR PIPES 2" DIA AND LESS, AND I-I/2"THICK INSULATION OF PIPES GREAT THAN 2"
- 120. ALL HOT WATER PIPES TO KITCHEN SHALL BE INSULATED FROM HEATING SOURCE TO FIXTURE WITH I" THICK, R-4 INSULATION FOR PIPES 2" DIA AND LESS, AND 1-1/2" THICK INSULATION FOR PIPES GREATER THAN 2" DIA.
- PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVE TYPE. HANDLE POSITION STOPS SHALL BE PROVIDED ON SUCH VALVES AND SHALL BE ADJUSTED PER MANUFACTURER'S INSTRUCTIONS TO DELIVER A MAXIMUM MIXED WATER SETTING OF 120°F. THE MAXIMUM HOT WATER TEMPERATURE DISCHARGING FROM THE BATH TUB AND WHIRLPOOL BATH TUB FILLER SHALL BE LIMITED TO 120 F. THE WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A SUITABLE CONTROL FOR MEETING THESE PROVISIONS, THE DEVICE(S) USED SHALL BE ASSE 1016 COMPLIANT AND SHALL BE INSTALLED AT ALL APPLICABLE FIXTURES.
- 123. PIPE INSULATION IS A MANDATORY REQUIREMENT IN THE FOLLOWING CASES:
- A) STORAGE TANKS FOR A NON-RECIRCULATING SYSTEM MUST HAVE PIPE INSULATION ON BOTH HOT AND COLD WATER PIPES FOR LENGTH OF FIVE FEET. THERE IS NO EXCEPTION FOR WATER HEATER PIPING IN THE

HOT WATER HEATER INSTALLATION NOTES:

- 126. WATER HEATERS SHALL BE STRAPPED TO THE BUILDING WITH AT LEAST TWO STRAPS TO PREVENT SEISMIC MOVEMENT. ONE STRAP WITHIN THE TOP THIRD AND THE OTHER WITHIN THE BOTTOM THIRD OF THE WATER
- 127. WATER HEATERS SHALL BE PROVIDED WITH A CONDENSATE DRAIN THAT IS NO MORE THAN 2" HIGHER THAN THE BASE OF THE INSTALLED WATER HEATER, AND ALLOWS GRAVITY DRAINING WITHOUT PUMP ASSISTANCE.
- CATEGORY III OR IV VENT PIPE.
- 130. MINIMUM 1" THICK PIPE INSULATION SHALL BE INSTALLED ON HOT WATER PIPES FROM THE WATER HEATER TO THE
- 131. ANY WATER SYSTEM PROVIDED WITH A CHECK VALVE, BACKFLOW PREVENTER, OR ANY OTHER NORMALLY CLOSED DEVICE THAT PREVENTS DISSIPATION OF BUILDING PRESSURE BACK INTO THE WATER MAIN SHALL BE PROVIDED
- 132. ALL STORAGE TYPE WATER HEATERS NEED A TEMPERATURE/PRESSURE RELIEF VALVE INSTALLED PER THEIR LISTING EQUAL TO THE SIZE OF THE VALVE OUTLET AND SHALL DISCHARGE FULL SIZE TO THE FLOOD LEVEL OF THE AREA RECEIVING THE DISCHARGE AND POINTING DOWN. DISCHARGE PIPE SHALL DISCHARGE INDEPENDENTLY BY GRAVITY THROUGH AN AIR GAP INTO THE DRAINAGE SYSTEM OR OUTSIDE OF THE BUILDING WITH THE END OF THE

- 102. ALL WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
- ENGINEERING OF RADIANT INSTALLATION
- RECOMMENDATIONS.
- NOTED IN PLAN ARE THE MINIMUM NUMBER RECOMMENDED.
- PROPER ENGINEERING OF PLUMBING INSTALLATION.
- INFORMATION. FIXTURES SHALL BE COMPLIANT WITH ALL STATE AND LOCAL CODES AND REGULATIONS.
- RECOMMENDATIONS.

III. MAXIMUM FLOW RATES OF FIXTURES AND FITTINGS: SEE CALGREEN THIS SHEET.

- WALLS, CEILINGS AND ATTICS.
- 114. SECURE ALL EQUIPMENT PER CMC 303.4 ¢ CPC SECTION 507.2.
- VERIPY REQUIREMENTS WITH OWNER AND LANDSCAPE CONTRACTOR, ALL WATER OUTLETS AND HOSE-BIBS MUST HAVE A PERMANENT BACK-FLOW PREVENTER PER CPC 603.4.7.
- I 17. PROVIDE FOOT VENT AND ACCESSIBLE CLEAN OUT IN THE VERTICAL PORTION PER CPC SEC. 909.0, SPECIAL VENTING FOR ISLAND FIXTURES.
- 118. PROVIDE A PRESSURE RELIEF FOR STORAGE WATER HEATERS PER CPC SEC. 608.3.

- 121. ALL SINK FAUCETS SHALL BE INSTALLED WITH AN AERATOR WITH A FLOW RESTRICTOR.
- 122. SHOWERS AND TUB-SHOWER COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE

- B) RECIRCULATING SECTIONS OF DOMESTIC HOT WATER SYSTEMS MUST BE INSULATED (THE ENTIRE LENGTH OF PIPING, WHETHER BURIED OR EXPOSED).
- C) INDIRECT FIRED DOMESTIC HOT WATER SYSTEM PIPING FROM THE HEATING SOURCE TO THE STORAGE TANK.

WITH AN APPROVED, LISTED, AND ADEQUATELY SIZED EXPANSION TANK.

PIPE NOT EXCEEDING

IN A GARAGE, SHALL BE MOUNTED 18" ABOVE THE FLOOR.

- 124. WATER HEATERS AND FURNACES WHICH HAVE A GLOW, SPARK, OR IGNITION SOURCE, AND ARE INSTALLED
- 125. WATER HEATERS AND FURNACES SHALL BE PROTECTED FROM AUTO IMPACT BY A PROTECTIVE BARRIER OR BE LOCATED OUT OF THE NORMAL PATH OF VEHICLES
- HEATER, THE LOWER STRAP SHALL NOT BE WITHIN 4" OF THE CONTROLS.
- 128. IF A WATER HEATER VENT PIPE MAKES BENDS THROUGH THE BUILDING STRUCTURE, THEN IT SHALL BE EITHER A
- 129. PROVIDE A GAS SUPPLY LINE WITH A CAPACITY TO PROVIDE A MINIMUM OF 200,000 BTU/HR TO THE WATER HEATER LOCATION (3/4" MIN.)

REVISIONS

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FORMED UNDER THIS CONTRACT SHALL BE I CORDANCE WITH THE LATEST RULES, REGUL.

TRICTIONS, AND CODE REQUIREMENTS WI

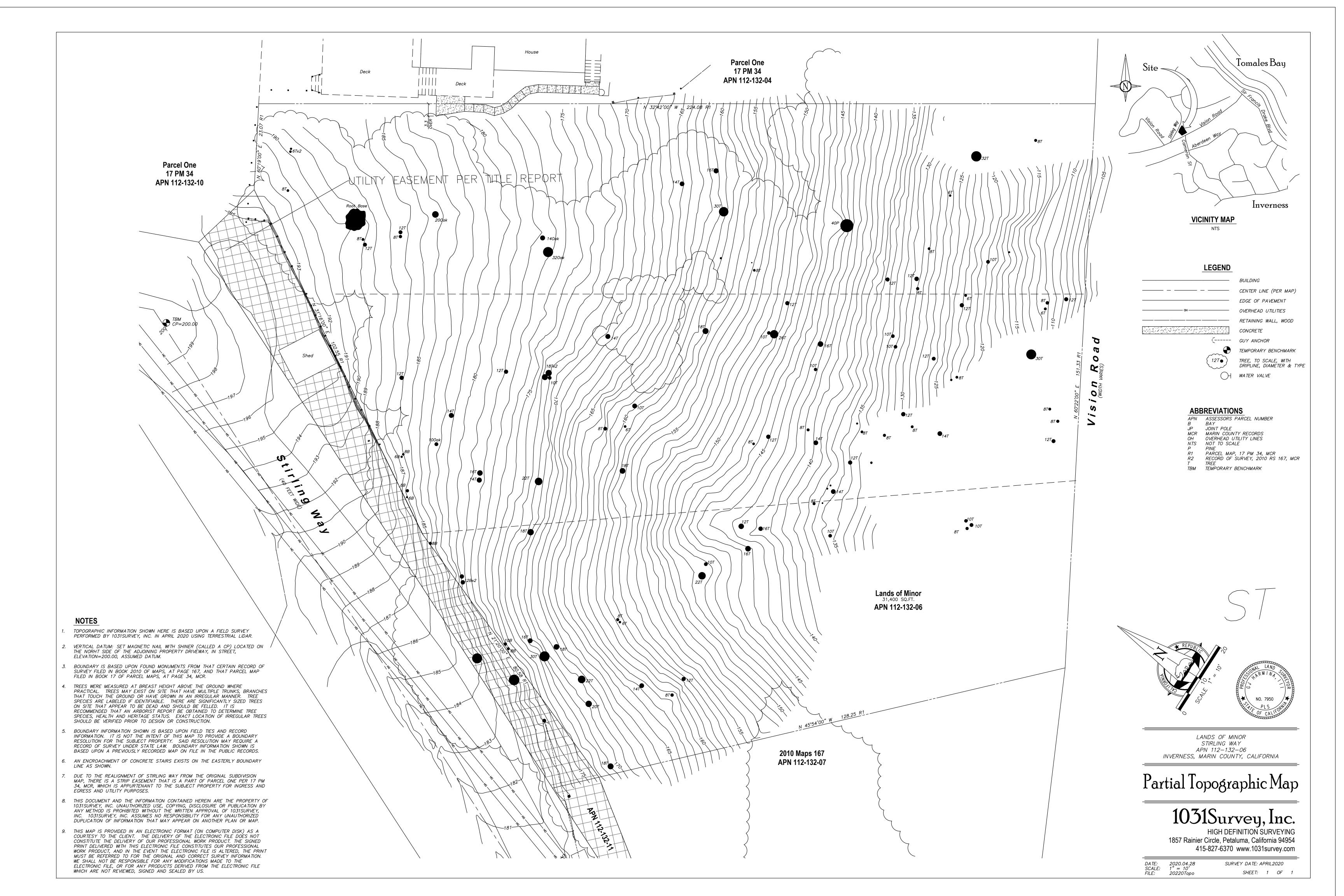
DATE: JAN. 13,2023

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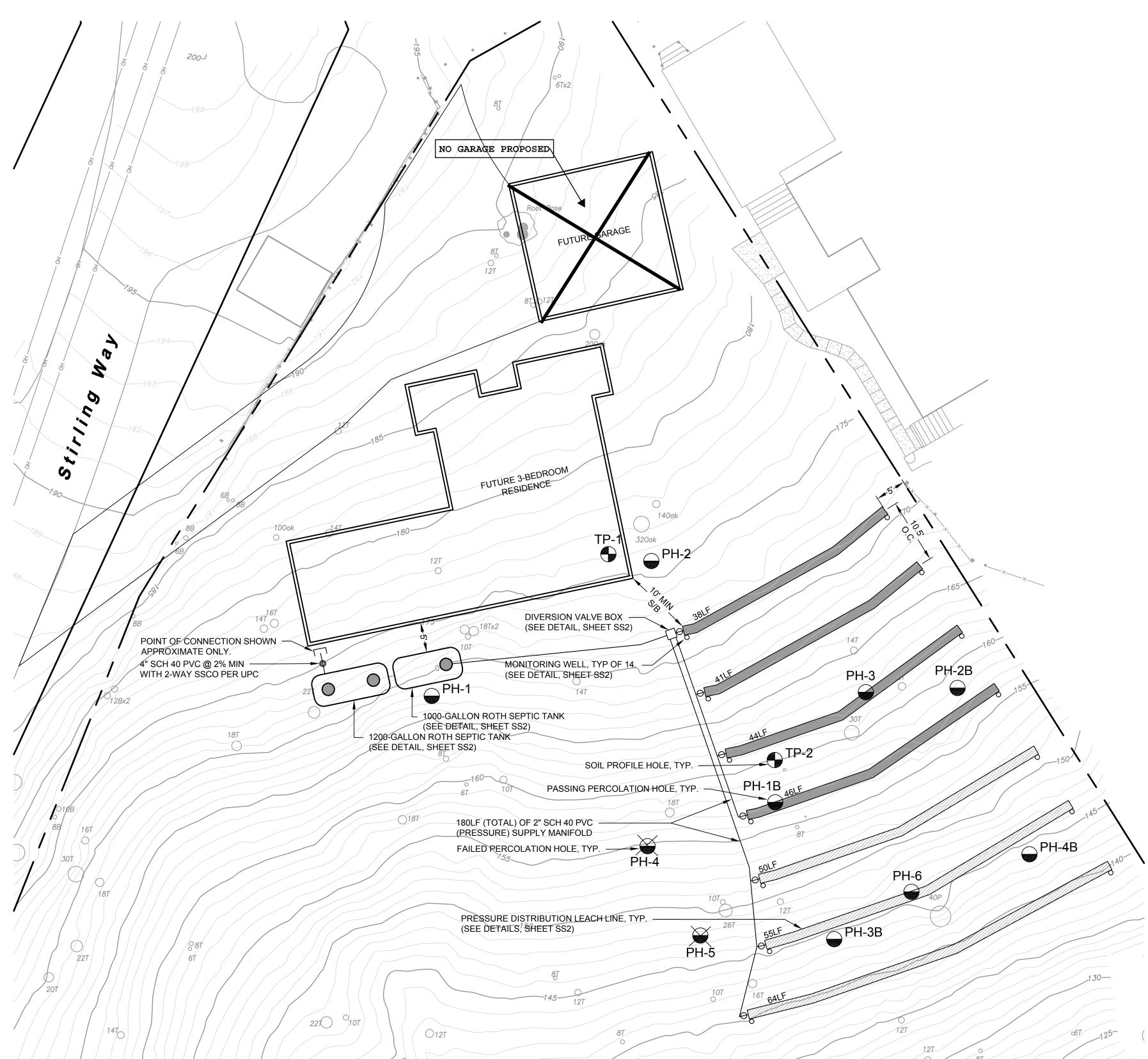
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CLASS I ON-SITE WASTEATER TREATMENT SYSTEM PRESSURE DISTRIBUTION DESIGN

STIRILING WAY, INVERNESS CA



SITE PLAN LAYOUT

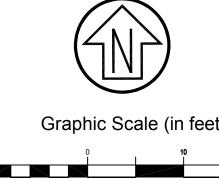
GENERAL SEPTIC NOTES

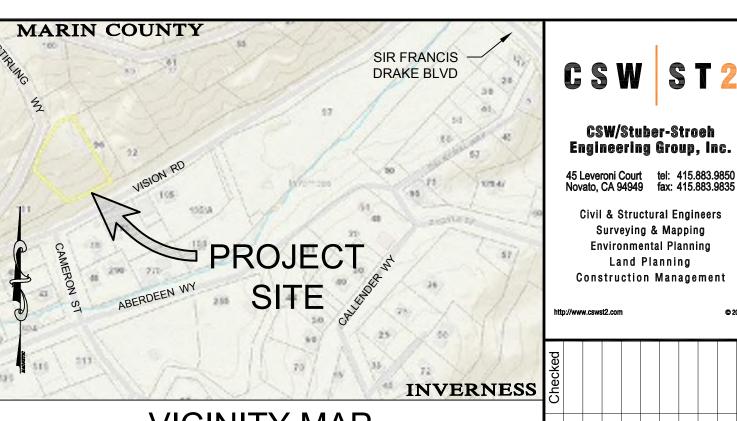
- SURFACE OR SUBSURFACE, DO OR DO NOT EXIST. PRIOR TO SITE PLANNING AND/OR CONSTRUCTION ACTIVITIES, IT IS RECOMMENDED THAT THE SERVICES OF A UTILITY LOCATION PROFESSIONAL BE UTILIZED TO ASCERTAIN THE PRECISE LOCATION OF ANY UTILITY, WHETHER SHOWN OR
- SEPTIC IMPROVEMENTS SHALL CONFORM TO COUNTY CLASS I SETBACK REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROPERTY, UTILITIES, AND EASEMENT LINE LOCATIONS PRIOR TO
- AS NEEDED, AROUND THE DISPERSAL FIELD AREA TO MEET COUNTY
- AS APPLICABLE, CONTRACTOR SHALL DETERMINE THE BUILDING SEWER

	SETBA	ACK TO
SITE FEATURE	SEPTIC TANK	EDGE OF DRAINFIEL
BUILDING	5'	10'
ADJOINING PROP. LINE	5'	10'
DOWNSLOPE PROP. LINE	10'	25'
WELLS (DOMESTIC OR NON-DOMESTIC)	100'	100'
EDGE OF DRAINFIELD PIPE	5'	-
CUT, EMBANKMENT, OR NATURAL BLUFF	10'	4 x H (*)
DOMESTIC WATER LINE	10'	10'
DRIVEWAY OR PAVED SURFACE	5'	5'

(*) Distance (H) in feet equals four times the vertical height of the cut, embankment, or bluff

SETBACK REQUIREMENTS





CSW/Stuber-Stroeh

Civil & Structural Engineers Surveying & Mapping

VICINITY MAP

EROSION CONTROL NOTES

- THE CALIFORNIA BUILDING CODE, APPLICABLE COUNTY STANDARDS CODES AND ORDINANCES, AND SECTION 20 OF THE CALTRANS STANDARD
- THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS OR AN **EQUIVALENT BEST MANAGEMENT PRACTICE**

BAY AREA GOVERNMENTS. CONSTRUCTION SITE BEST MANAGEMEN PRACTICES MANUAL BY CALTRANS. STORMWATER BEST MANAGEMEN

- 3. IF DISCREPANCIES OCCUR BETWEEN THESE NOTES, MATERIAL REFERENCED HEREIN OR MANUFACTURER'S RECOMMENDATIONS. THEN THE MOST PROTECTIVE SHALL APPLY
- TO CLEARING, GRADING, EXCAVATION, STOCKPILING, AND
- 5. PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM
- 6. THE OWNER IS RESPONSIBLE FOR PREVENTING STORM WATER POLLUTION MUST IMPLEMENT AN EFFECTIVE COMBINATION OF EROSION PREVENETION AND SEDIMENT CONTROL ON ALL DISTURBED AREAS DURING THE RAINY SEASON (OCTOBER 15 - APRIL 15).
- 7. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER BEFORE AND AFTER STORMS PRODUCING AT LEAST 1 INCH OF PRECIPITATION IN A 24 HOUR PERIOD TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT HAVE FAILED OR ARE NO LONGER EFFECTIVE SHALL BE PROMPTLY REPLACED. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED.
- 8. CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN MAY BE MADE TO RESPOND TO FIELD CONDITIONS. CHANGES SHALL BE NOTED ON THE PLAN WHEN MADE.
- 9. DISCHARGES OF POTENTIAL POLLUTANTS FROM CONSTRUCTION SITES SHALL BE PREVENTED USING SOURCE CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT, TRASH, NUTRIENTS, PATHOGENS, PETROLEUM HYDROCARBONS, METALS, CONCRETE, CEMENT, ASPHALT, LIME, PAINT, STAINS, GLUES, WOOD PRODUCTS, PESTICIDES, HERBICIDES, CHEMICALS, HAZARDOUS WASTE, SANITARY WASTE, VEHICLE OR EQUIPMENT WASH WATER AND CHLORINATED WATER.
- 10. ENTRANCE(S) TO THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF POTENTIAL POLLUTANTS OFFSITE. POTENTIAL POLLUTANTS DEPOSITED ON PAVED AREAS WITHIN THE COUNTY RIGHT-OF-WAY, SUCH AS ROADWAYS AND SIDEWALKS, SHALL BE PROPERLY DISPOSED OF AT THE END OF EACH WORKING DAY OR MORE FREQUENTLY AS NECESSARY.
- 11. EXPOSED SLOPES SHALL BE PROTECTED BY USING EROSION PREVENTION MEASURES TO THE MAXIMIM EXTENT PRACTICABLE, SUCH AS ESTABLISING 70% VEGETATION COVERAGE, HYDROSEEDING, STRAW MULCH, GEOTEXTILES, PLASTIC COVERS, BLANKETS OR MATS.
- 12. WHENEVER IT IS NOT POSSIBLE TO UTILIZE EROSION PREVENTION MEASURES, EXPOSED SLOPES SHALL EMPLOY SEDIMENT CONTROL DEVICES, SUCH AS FIBER ROLLS AND SILT FENCES, FIBER ROLLS AND SILT FENCES SHALL BE TRENCHED AND DKEYED INTO THE SOIL AND INSTALLED ON CONTOUR. SILT FENCES SHALL BE INSTALLED APPROXIMATELY 2 TO 5 FEET FROM TO OF SLOPE.
- 13. SOIL AND MATERIAL STOCKPILES SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUTANT TRANSPORT FROM THE CONSTRUCTION SITE.



Scale:

(31

1 inch = 10 ftJanuary 22,2024 2020022 Project Number: Sheet Number:

Town Of

Inverness

County Of

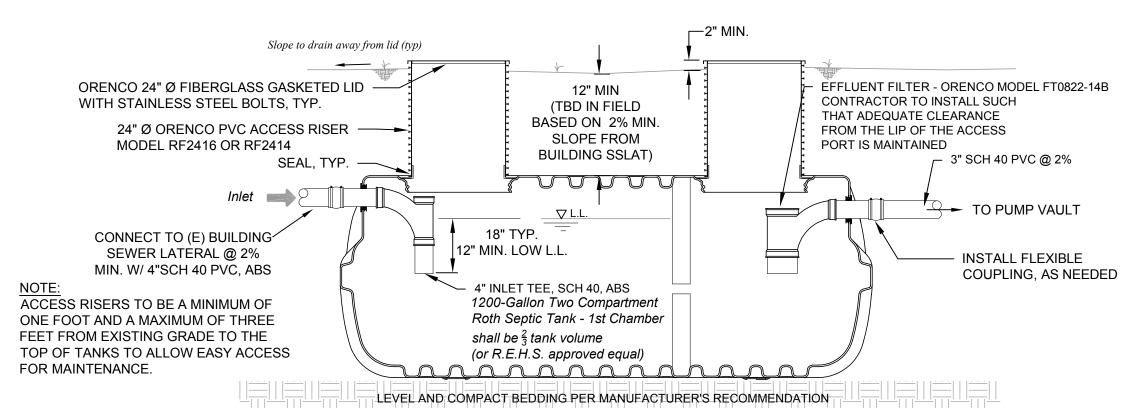
Marin

State Of

California

Prepared Under the Direction of:

1 inch = 10 ft.



ORENCO ORIFICE SHIELD OR EQUAL $1\frac{1}{4}$ "PVC SCH 40 W/ 3/16" PERFORATIONS

PERFORATION SHIELD DETAIL

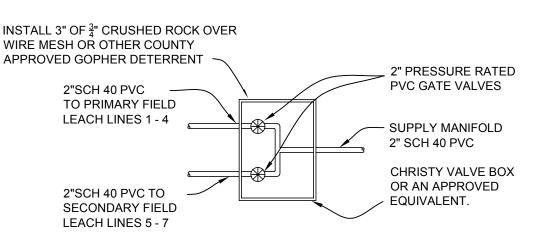
1200-GALLON SEPTIC TANK SECTION DETAIL

ORENCO SPLICE BOX (SBEX4) TO SIMPLEX PANEL W/DOSE COUNTER AND ELAPSED TIME METER DEDICATE SEPARATE ELECTRICAL MOUNTED ON 4x4 POST OR AS APPROVED CIRCUIT FOR ALARM AND CONTROL BY THE ENGINEER. PANEL. CIRCUIT BREAKER AT MAIN PANEL TO BE LARGER THAN CIRCUIT BREAKER AT CONTROL PANEL. Slope to drain away from lid (typ) ORENCO 24" Ø FIBERGLASS GASKETED LID RECOMMENDED CONTROL PANEL: 12" MIN WITH STAINLESS STEEL BOLTS, TYP. (TBD IN FIELD BASED ON 2% MIN. USE ORENCO SIMPLEX CONTROL PANEL, 230V OR EQUIVALENT 24" Ø ORENCO PVC ACCESS RISER -----CONTRACTOR TO FIELD VERIFY LOCATION WITH THE ENGINEER SLOPE FROM MODEL RF2416 OR RF2414 BUILDING SSLAT) INSTALL PVC CHECK VALVE, UNION, AND SEAL, TYP. BALL VALVE TO PRESSURE LINE WITHIN THE RISER ORENCO FLOAT SWITCH ASSEMBLY 18" TYP. CONNECT TO (E) BUILDING 553 GALLON STORAGE 12" MIN. LOW L.L. CAPACITY ABOVE HLA SEWER LATERAL @ 2% **RECOMMEND PUMP:** MIN. W/ 4"SCH 40 PVC, ABS DISCHARGE PUMP USE GOULDS 3885 SERIES (1/2 HP, 1 Ø, 230V) OR EQUIVALENT 4" INLET TEE, SCH 40, ABS PUMP ON ACCESS RISERS TO BE A MINIMUM OF 1000-Gallon Single Compartment ONE FOOT AND A MAXIMUM OF THREE Roth Sump Tank FLOW: 24 GPM **PUMP OFF** FEET FROM EXISTING GRADE TO THE DISCHARGE PUMP TO BE SET FOR "ON-DEMAND" FOR 92 GALLONS OR TOP OF TANKS TO ALLOW EASY ACCESS AS APPROVED BY THE DESIGN ENGINEER AND/OR COUNTY REHS FOR MAINTENANCE. <u>ananananan</u>

1000-GALLON SUMP TANK SECTION DETAIL

LEVEL AND COMPACT BEDDING PER MANUFACTURER'S RECOMMENDATION

-10.5' MIN.-CHRISTY ACCESS BOX OR EQUIVALENT INSTALL 3" OF 3" CRUSHED ROCK OVER **EXISTING** WIRE MESH OR OTHER COUNTY SEE EROSION CONTROL NOTES, **GRADE** APPROVED GOPHER DETERRENT SHEET SS1, FOR ALL DISTURBED AREAS UNDISTURBED EARTH THREADED CAP AT TOP · MIRAFI 140N FILTER CLOTH SILT BARRIER, TYP. 2" MIN ROCK OVER PIPE - 1-1/4" PERFORATED SCH. 40 PVC W/ CONCRETE CHRISTY F8 BOX WITH F8D LID 1/8" DRILLED HOLES UPWARD @ 3' O.C. MONITORING WELL DETAIL. CAP AT ENDS DOUBLE WASHED CLEAN DRAINROCK $\frac{3}{4}$ " TO $1\frac{1}{2}$ " FREE OF 4" DIAMETER F480 CL200 PVC SCREENED WELL FINES, OR APPROVED EQUIVALENT CASING W/ 0.020 mm MACHINED SLOTS. CAP AT ENDS



DIVERSION BOX DETAIL

LEACH FIELD SECTION VIEW

CHRISTY ACCESS OR EQUIVALENT CHRISTY ACCESS OR EQUIVALENT INSTALL 3" OF 3" CRUSHED ROCK OVER INSTALL 3" OF \(\frac{3}{4} \)" CRUSHED ROCK OVER WIRE MESH OR OTHER COUNTY WIRE MESH OR OTHER COUNTY APPROVED GOPHER DETERRENT APPROVED GOPHER DETERRENT THREADED CAP AT TOP - 4" DIAMETER F480 CL200 PVC SCREENED WELL CASING W/ THREADED CAP W/ 1 0 HOLE ON TOP 0.020 mm MACHINED SLOTS. CAP AT ENDS PVC BALL VALVE LOAMY TOPSOIL COVER TO BE APPROVED BY ENGINEER / MIRAFI 140N FILTER 90° PVC SWEEP CONCRETE BLOCK, TYP. CLOTH SILT BARRIER, TYP. ♦ ORENCO ORIFICE SHIELD 2"/ SCH 40/ PVC ≚ ÚNDISTURBED 🥍 SUPPLY MANIFOLD .EARTH < 1.25" SCH 40 PVC ÈND OF TRENCH "ø ORIFICES FACING UPWARD W/SHIELD @ 3' O.C. DOUBLE WASHED CLEAN (UNDISTURBED) DRAINROCK $\frac{3}{4}$ " TO $1\frac{1}{2}$ " FREE OF EARTH FINES, OR APPROVED EQUIVALENT

LEACH LINE SECTION VIEW

GENERAL NOTES

DISCHARGE PUMP:

- Discharge pump shall be of the size and type to accommodate the intended
- use and shall include the following: •• A "Hand-Auto" switch.
- An audio and visible alarm
- •• Orenco electrical float switches for starting and stopping to indicate a "high water" condition
- •• All pumps to be set per plan or the manufacturer's mimimum liquid level

SUMP TANK:

- •• Float elevations based on Roth1,000-gallon plastic tank
- •• The Contractor shall notify the Design Engineer for changes in float
- elevation resulting in a change of tank(s). •• Access shall be provided by a minimum 24-inch manhole riser.
- •• Access lid(s) shall be installed 2 inches minimum above the finished
- All pipes and/or electrical conduits through the tank shall be either
- precast into the tank or sealed with gas-tight compression connectors.
- ELECTRICAL FEATURES:

The following electrical features shall be provided:

- Orenco Simplex Control Panel or approved equivalent panel with dose counter and elapsed time meter to control the discharge pump and audio/visuam alarm. Control panel should be outdoor type control box containing fused disconnect and motor protection switch.
- The control box shall be mounted on the building served if located within 20 feet of the process tank. Otherwise the control box shall be mounted on a pipe stand or wooden post 3' minimum above existing grade.
- •• Electrical conduit shall be PVC. Exposed/above grade pipe shall be Sch 80 PVC. Separate conduits shall be provided for control wire and power
- •• Dedicate separate electrical circuit for alarm and control panel. Circuit breaker at main panel to be larger than circuit breaker at control panel.
- •• Contractor to install Orenco push button audio/visual alarm inside habitable/living space within the residence.

PERMITS:

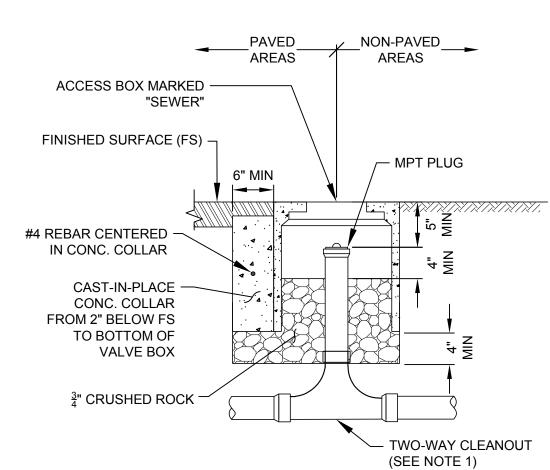
Aside from an individual sewage disposal system permit, an electrical permit for the pump installation will be necessary for the Building Inspection Department.

TANK WATER TIGHTNESS TEST:

- 1. Fill septic and sump tank to 2-4" into the risers.
- 2. Measure and mark water level a day prior to inspection.
- 3. After 30 min., if the water elevation drops, tanks have failed and shall be replaced or proper sealant to be applied to correct any leaks as stated in septic note 5.
- 4. Steps 1 thru 3 shall be repeated after corrections completed.
- 5. Test shall be conducted under supervision of Sanitarian or Design Engineer

LAT # LATERAL DIAMETER LF PERFORATIONS PERFORATIONS # OF PERFORATIONS 1 1 1/4" 38 1/8" 12 2 1 1/4" 44 1/8" 14 3 1 1/4" 41 1/8" 13 4 1 1/4" 46 1/8" 15 5 1 1/4" 50 1/8" 16 6 1 1/4" 55 1/8" 18 7 1 1/4" 64 1/8" 18					
1 1 1/4" 38 1/8" 12 2 1 1/4" 44 1/8" 14 3 1 1/4" 41 1/8" 13 4 1 1/4" 46 1/8" 15 5 1 1/4" 50 1/8" 16 6 1 1/4" 55 1/8" 18		LATERAL		SIZE OF	# OF
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3 1 1/4" 41 1/8" 13 4 1 1/4" 46 1/8" 15 5 1 1/4" 50 1/8" 16 6 1 1/4" 55 1/8" 18	1	1 1/4"	38	1/8"	12
4 1 1/4" 46 1/8" 15 5 1 1/4" 50 1/8" 16 6 1 1/4" 55 1/8" 18	2	1 1/4"	44	1/8"	14
5 1 1/4" 50 1/8" 16 6 1 1/4" 55 1/8" 18	3	1 1/4"	41	1/8"	13
6 1 1/4" 55 1/8" 18	4	1 1/4"	46	1/8"	15
_	5	1 1/4"	50	1/8"	16
7 1 1/4" 64 1/8" 18	6	1 1/4"	55	1/8"	18
	7	1 1/4"	64	1/8"	18

LATERAL SCHEDULE



 CLEANOUT SHALL BE THE SAME SIZE AS THE CONNECTING LINE 2. USE CONC. COLLAR AND H-20 RATED BOX FOR AREAS SUBJECT TO TRAFFIC

SANITARY SEWER CLEAN-OUT DETAIL

SEPTIC NOTES:

- 1. All work shall be in conformance with the County of Marin's most recent regulations for design and construction of individual sewage disposal system.
- 2. All sewer connections shall be in accordance with the most recent edition of the Uniform Plumbing Code.
- 3. Sewer line from building to septic tank shall be 4" minimum schedule 40 P.V.C. or an approved equivalent. Minimum slope from building to the septic tank shall be 2%. Clean-out to be installed at least 5 feet from building. All other piping from septic tank to the leach lines shall be schedule 40 P.V.C piping.
- 4. No work shall be performed during the wet season and all excavation shall be performed when soil conditions are dry or upon approval of the Engineer.
- 5. The septic & process tank shall be watertight and tested for any leakage. If there are leaks, the interior seams shall be sealed with thoroseal. Fiberglass tanks shall be approved by the county Sanitarian prior to installation.
- 6. The Contractor shall notify the Engineer and Health Officer a minimum of 48 hours prior to construction and observation of the system. The Engineer shall observe the system at critical construction phases as follows and shall be used as steps for the contractor to install the system;

a) Stake out location of all leach lines along contour.

- b) Excavate trenches. Trench bottom shall be level with no more than 3 inch drop in 100 feet of length. Any smeared sidewalls shall be scarified and the loose material removed from the bottom.
- c) Upon completion of observation, seal or glue all joints
- d) Backfill remaining trenches with native soil.

sleeved within 10' of the leach field.

a drainage system.

- 7. Monitoring wells shall be located at the ends of each leach line or as approved by the
- Monitoring wells shall be installed as shown on site plan (sheet SS1) and detail (this
- 9. Erosion protection in the leach field shall be required upon completion of installation and observed by the Engineer. See Erosion Control Notes, Sheet SS1.
- 10. Contractor not to over-excavate the delivery line trench. If crossing a water lateral, the sewer line shall be located 12-inches below the water line. The water lateral shall be
- 11. All plumbing fixtures shall be low use type, i.e., toilets (1.6 gallons/flush), shower heads (2.0 GPM). All faucets to have areators installed.
- 12. All drainage (i.e. downspouts, area drains, etc.) to drain away from the septic system via
- 13. The known locations of utilities shown on these plans are approximate only and it is the contractor's responsibility to verify locations and depths with appropriate agencies or by excavation. Any conflicts with utilities contact design engineer. Repair and replace any damaged utilities including but not limited to Water, PG&E, Propane and cable.

OPERATING & MAINTENANCE OF SEPTIC & DOSING SYS.

- 1. Inspect septic tank annually for leakeage and scum buildup.
- 2. If sludge buildup in septic tank is 6" or greater, have tank pumped.
- 3. Minimize the use of garbage disposal unit by composting or packaging scrap to
- 4. Minimize pouring grease down drain.
- 5. Minimize discharge of paper products, i.e. cigarettes, disposable diapers, sanitary napkins and tissues.
- 6. Do not dispose of oils, paint and thinner down waste lines.
- 7. Minimize liquid load by repairing leaking fixtures and washing clothes with full
- 8. Drain surface water away from leachfield area.
- 9. It is not recommended to install a sprinkler system over a septic system. However, if a sprinkler system is installed within the flow path of the septic system, regular observation of the irrigation system should be performed otherwise failing sprinkler heads, valves, etc. can cause significant problems with the septic system.
- 10. Owner shall obtain an Annual Operation Permit
- a. For observing, testing and sampling.
- b. For placing and removing of test devices.
- c. For evaluation and monitoring of the septic system

CONSTRUCTION OBSERVATION SCHEDULE

The Contractor shall notify the Engineer and County of Marin Environmental Heath Specialist (REHS) a minimum of 48 hours prior to construction and observation of the system. Additional County of Marin fees can be required after 1 site observations. The Engineer and the REHS shall observe the system at critical construction phases as

- 1. Pre-construction observation where the following items shall be verified: a. Imminent weather conditions are such that they will not create unsuitable soil conditions during installation
- Layout and staking or marking of all components of the system
- Review and approval of the source of materials to be used
- Interim observation(s)
- a. Installation of all treatment components Leach field installation and functioning of all leach field components

returned to the Department.

- Function and setting of all control devices
- Connections of all piping and related components

approved another method of inspection.

- Water tightness test of all connections, septic tank and process tank A hydraulic inspection of the system shall be scheduled with the design engineer. All leach lines and fittings shall be exposed, unless EHS staff has
- Start up observation a. Start up inspection shall be scheduled with the design engineer, service
- provider, and EHS staff.
 - b. All construction elements are in general conformance with the approved plans and specifications
 - c. Final soil cover over the leach! field d. System controls are hardwired to permanent power and all floats, pumps and
 - alarms tested e. Letter from the designer that the system has been installed and is operating in
 - conformance with the design specifications shall be provided f. The septic system sump pump electrical system installation conformance certification shall be completed, signed by the installing contractor and

January 22, 2024 2020022 Project Number: Sheet Number: 2 of 2

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GPI

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EHR

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CSW ST2

CSW/Stuber-Stroeh

Engineering Group, Inc.

45 Leveroni Court tel: 415.883.9850 Novato, CA 94949 fax: 415.883.9835

Civil & Structural Engineers

Surveying & Mapping

Environmental Planning

Land Planning

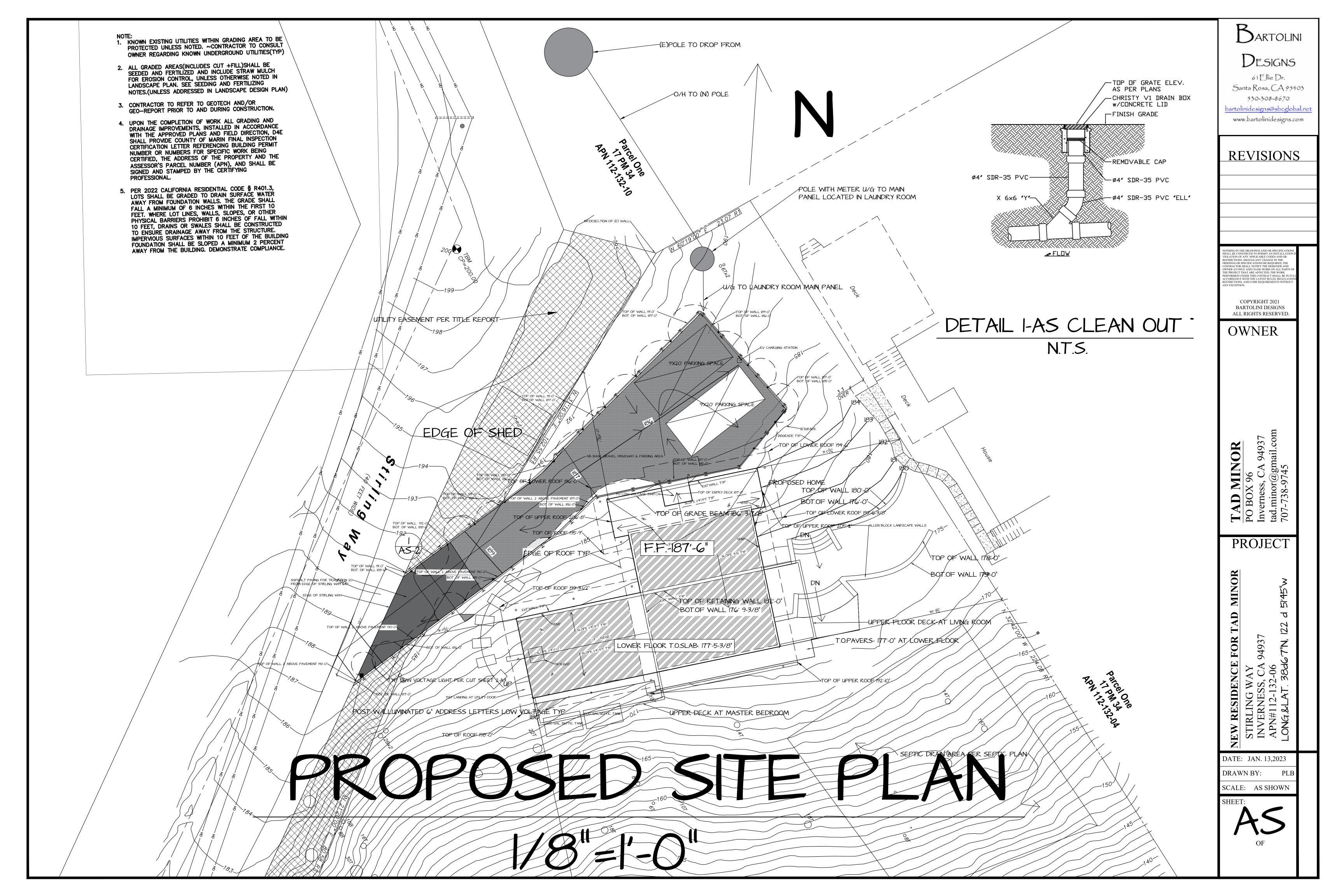
Construction Management

Town Of Inverness

County Of Marin State Of

California Prepared Under the Direction of:

Scale:



EROSION PREVENTION AND SEDIMENT CONTROL NOTES

- GENERAL
 1. PERFORM EROSION PREVENTION AND SEDIMENT CONTROL IN ACCORDANCE WITH MARIN DEPARTMENT OF PUBLIC WORKS CODE.
- 2. THE APPROVED PLANS SHALL CONFORM WITH THE MARIN COUNTY DEPARTMENT OF PUBLIC WORK EROSION PREVENTION AND SEDIMENT CONTROL BEST MANAGEMENT
- 3. THE OWNER IS RESPONSIBLE FOR PREVENTING STORM WATER POLLUTION GENERATED FROM THE CONSTRUCTION SITE YEAR ROUND. WORK SITES WITH INADEQUATE EROSION AND SEDIMENT CONTROL MAY BE SUBJECT TO A STOP WORK ORDER. 4. IF DISCREPANCIES OCCUR BETWEEN THESE NOTES, MATERIAL REFERENCED HEREIN OR
- MANUFACTURER'S RECOMMENDATIONS, THEN THE MOST PROTECTIVE SHALL APPLY. 5. AT ALL TIMES THE OWNER IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH THE STATE OF CALIFORNIA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT WASTE DISCHARGE REQUIREMENTS FOR DISCHARGES OF STORM WATER RUNOFF ASSOCIATED WITH CONSTRUCTION ACTIVITY. CONSTRUCTION ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO CLEARING, GRADING, EXCAVATION, STOCKPILING, AND RECONSTRUCTION OF EXISTING FACILITIES INVOLVING REMOVAL AND REPLACEMENT.

RAINY SEASON OPERATIONS

- THE OWNER MUST IMPLEMENT AN EFFECTIVE COMBINATION OF EROSION PREVENTION AND SEDIMENT CONTROL ON ALL DISTURBED AREAS DURING THE RAINY SEASON (OCTOBER 15-APRIL 15). CONSTRUCTION GRADING AND DRAINAGE IMPROVEMENT SHALL BE PERMITTED DURING THE RAINY SEASON ONLY WHEN ON-SITE SOIL CONDITIONS PERMIT THE WORK TO BE PERFORMED IN COMPLIANCE WITH SCC CHAPTER 11 AND 11A. STORM WATER BMPS REFERENCED OR DETAILED IN THE PERMIT AUTHORITY'S BEST MANAGEMENT PRACTICES GUIDE SHALL BE IMPLEMENTED AND FUNCTIONAL ON THE
- 2. THE AREA OF ERODIBLE LAND EXPOSED AT ANY ONE TIME DURING THE WORK SHALL NOT EXCEED 1 ACRE OR 20% OF THE PERMITTED WORK AREA, WHICHEVER IS GREATER, AND THE TIME OF EXPOSURE SHALL BE MINIMIZED TO THE MAXIMUM EXTENT
- . AGRICULTURAL GRADING AND DRAINAGE IMPROVEMENTS, AND INITIAL LAND PREPARATION WORK FOR VINEYARD AND ORCHARD PLANTING, SHALL BE PERMITTED DURING THE RAINY SEASON ONLY FROM APRIL 1 TO APRIL 15, AND ONLY WHEN ON-SITE SOIL CONDITIONS PERMIT THE WORK TO BE PERFORMED IN COMPLIANCE WITH

- YEAR ROUND REQUIREMENTS

 DURING THE NON-RAINY SEASON, ON ANY DAY WHEN THE NATIONAL WEATHER SERVICE FORECAST IS A CHANCE OF RAIN OF 30% OR GREATER WITHIN THE NEXT 24 HOURS, STORM WATER BMPS REFERENCED OR DETAILED IN PRMD'S BEST MANAGEMENT PRACTICES GUIDE SHALL BE IMPLEMENTED, INSTALLED, AND FUNCTIONAL ON THE SITE TO PREVENT SOIL AND OTHER POLLUTANT DISCHARGES. AT ALL OTHER TIMES, BMPS SHOULD BE STORED ON SITE IN
- PREPARATION FOR INSTALLATION PRIOR TO RAIN EVENTS.

 EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE OWNER BEFORE FORECASTED STORM EVENTS AND AFTER STORM EVENTS TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES THAT HAVE FAILED OR ARE NO LONGER EFFECTIVE SHALL BE PROMPTLY REPLACED. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE
- THE LIMITS OF GRADING SHALL BE DEFINED AND MARKED ON SITE TO PREVENT DAMAGE TO SURROUNDING VEGETATION. PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM EXTENT PRACTICABLE. ANY EXISTING VEGETATION WITHIN THE LIMITS GRADING THAT IS TO REMAIN UNDISTURBED BY THE WORK SHALL BE IDENTIFIED AND PROTECTED FROM DAMAGE BY MARKING, FENCING, OR OTHER MEASURES.
- CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN MAY BE MADE TO RESPOND TO FIELD CONDITIONS AND SHALL BE NOTED ON THE PLAN. DISCHARGES OF POTENTIAL POLLUTANTS FROM CONSTRUCTION SITES SHALL BE
- PREVENTED USING SOURCE CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SEDIMENT, TRASH, NUTRIENTS, PATHOGENS, PETROLEUM HYDROCARBONS, METALS, CONCRÉTE, CEMENT, ASPHALT, LIME, PAINT, STAINS, GLUES, WOOD PRODUCTS, PESTICIDES, HERBICIDES, CHEMICAL, HAZARDOUS WASTES, SANITARY WASTE, VEHICLE OR EQUIPMENT WASH WATER, AND CHLORINATED WATER.
- 6. ENTRANCE(S) TO THE CONSTRUCTION SITE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF POTENTIAL POLLUTANTS OFFSITE. POTENTIAL POLLUTANTS DEPOSITED ON PAVED AREAS WITHIN THE COUNTY RIGHT-OF-WAY, SUCH AS ROADWAYS AND SIDEWALKS, SHALL BE PROPERLY DISPOSED OF AT THE END OF EACH WORKING DAY OR MORE FREQUENTLY AS NECESSARY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT, AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AT THE END OF EACH WORKING DAY OR MORE OFTEN AS

YEAR ROUND REQUIREMENTS CONTINUED-

- 7. ALL DISTURBED AREAS SHALL BE PROTECTED BY USING EROSION PREVENTION MEASURES TO THE MAXIMUM EXTENT PRACTICABLE, SUCH AS ESTABLISHING VEGETATION COVERAGE, HYDROSEEDING, STRAW MULCH, GEOTEXTILES, PLASTIC COVERS, BLANKETS OR MATS. TEMPORARY OR PERMANENT REVEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL AFTER VEGETATION REMOVAL BUT IN ALL CASES PRIOR TO OCTOBER 15. PRIOR TO FINAL INSPECTION, ALL DISTURBED AREAS SHALL BE REVEGETATED OR LANDSCAPING SHALL BE INSTALLED.
- 8. WHENEVER IT IS NOT POSSIBLE TO USE EROSION PREVENTION MEASURES ON EXPOSED SLOPES, SEDIMENT CONTROL DEVICES SUCH AS FIBER ROLLS AND SILT FENCES SHALL BE INSTALLED TO PREVENT SEDIMENT MIGRATION. FIBER ROLLS AND SILT FENCES SHALL BE TRENCHED AND KEYED INTO THE SOIL AND INSTALLED ON CONTOUR. SILT FENCES SHALL BE INSTALLED APPROXIMATELY 2 TO 5 FEET FROM TOE OF SLOPE.
- 9. HYDROSEEDING SHALL BE CONDUCTED IN A THREE STEP PROCESS. FIRST, EVENLY APPLY SEED MIX AND FERTILIZER TO THE EXPOSED SLOPE. SECOND, EVENLY APPLY MULCH OVER THE SEED AND FERTILIZER. THIRD, STABILIZE THE MULCH IN PLACE. AN EQUIVALENT SINGLE STEP PROCESS, WITH SEED, FERTILIZER, WATER, AND BONDED FIBERS IS ACCEPTABLE. APPLICATIONS SHALL BE BROADCASTED MECHANICALLY OR MANUALLY AT THE RATES SPECIFIED BELOW. SEED MIX AND FERTILIZER SHALL BE WORKED INTO THE SOIL BY ROLLING OR TAMPING. IF STRAW IS USED AS MULCH, STRAW SHALL BE DERIVED FROM WHEAT, RICE, OR BARLEY AND BE APPROXIMATELY 6 TO 8 INCHES IN LENGTH. STABILIZATION OF MULCH SHALL BE DONE HYDRAULICALLY BY APPLYING AN EMULSION OR MECHANICALLY BY CRIMPING OR PUNCHING THE MULCH INTO THE SOIL. EQUIVALENT METHODS AND MATERIALS MAY BE USED ONLY IF THEY ADEQUATELY PROMOTE VEGETATION GROWTH AND PROTECT EXPOSED SLOPES.

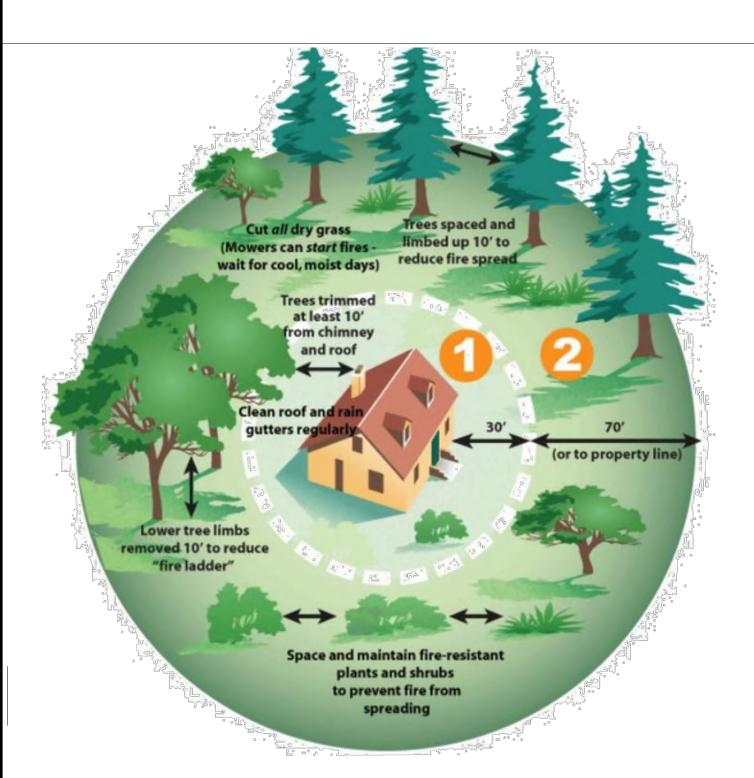
<u>MATERIALS</u>

APPLICATION RATE (POUNDS PER ACRE) HOLD FAST NATIVE BLEND(LEBALLISTER'S) 65 37.5% California Brome (Annual) 27.5% California Brome (Perennial) 15% Blue Wildrye 17% California Poppy

3% California native lupines FERTILIZER 16-20-0 & 15% SULPHUR MULCH 4000 STRAW

HYDRAULIC STABILIZING* M-BINDER OR SENTINEL 75-100 PER MANUFACTURER EQUIVALENT MATERIAL *NON-ASPHALTIC, DERIVED FROM PLANTS

- YEAR ROUND REQUIREMENTS CONTINUED—
 10. DUST CONTROL SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION. 11. STORM DRAIN INLETS SHALL BE PROTECTED FROM POTENTIAL POLLUTANTS UNTIL DRAINAGE CONVEYANCE SYSTEMS ARE FUNCTIONAL AND CONSTRUCTION HAS BEEN COMPLETED. 12. ENERGY DISSIPATERS SHALL BE INSTALLED AT STORM DRAIN OUTLETS WHICH MAY CONVEY
- EROSIVE STORM WATER FLOW. 13. SOIL, MATERIAL STOCKPILES, AND FERTILIZING MATERIAL SHALL BE PROPERLY PROTECTED TO
- MINIMIZE SEDIMENT AND POLLUTANT TRANSPORT FROM THE CONSTRUCTION SITE. 14. SOLID WASTE, SUCH AS TRASH, DISCARDED BUILDING MATERIALS AND DEBRIS, SHALL BE PLACED
- IN DESIGNATED COLLECTION AREAS OR CONTAINERS. THE CONSTRUCTION SITE SHALL BE CLEARED OF SOLID WASTE DAILY OR AS NECESSARY. REGULAR REMOVAL AND PROPER DISPOSAL SHALL BE COORDINATED BY THE CONTRACTOR.
- 15. A CONCRETE WASHOUT AREA, SUCH AS A TEMPORARY PIT, SHALL BE DESIGNATED TO CLEAN CONCRETE TRUCKS AND TOOLS. AT NO TIME SHALL CONCRETE PRODUCTS AND WASTE BE ALLOWED TO ENTER COUNTY WATERWAYS SUCH AS CREEKS OR STORM DRAINS. NO WASHOUT OF
- CONCRETE, MORTAR MIXERS, OR TRUCKS SHALL BE ALLOWED ON SOIL. 16. PROPER APPLICATION, CLEANING, AND STORAGE OF POTENTIALLY HAZARDOUS MATERIALS, SUCH AS PAINTS AND CHEMICALS, SHALL BE CONDUCTED TO PREVENT THE DISCHARGE OF POLLUTANTS.
- 17. TEMPORARY RESTROOMS AND SANITARY FACILITIES SHALL BE LOCATED AND MAINTAINED DURING CONSTRUCTION ACTIVITIES TO PREVENT DISCHARGE OF POLLUTANTS.
- 18. APPROPRIATE VEHICLE STORAGE, FUELING, MAINTENANCE, AND CLEANING AREAS SHALL BE DESIGNATED AND MAINTAINED TO PREVENT DISCHARGE OF POLLUTANTS.

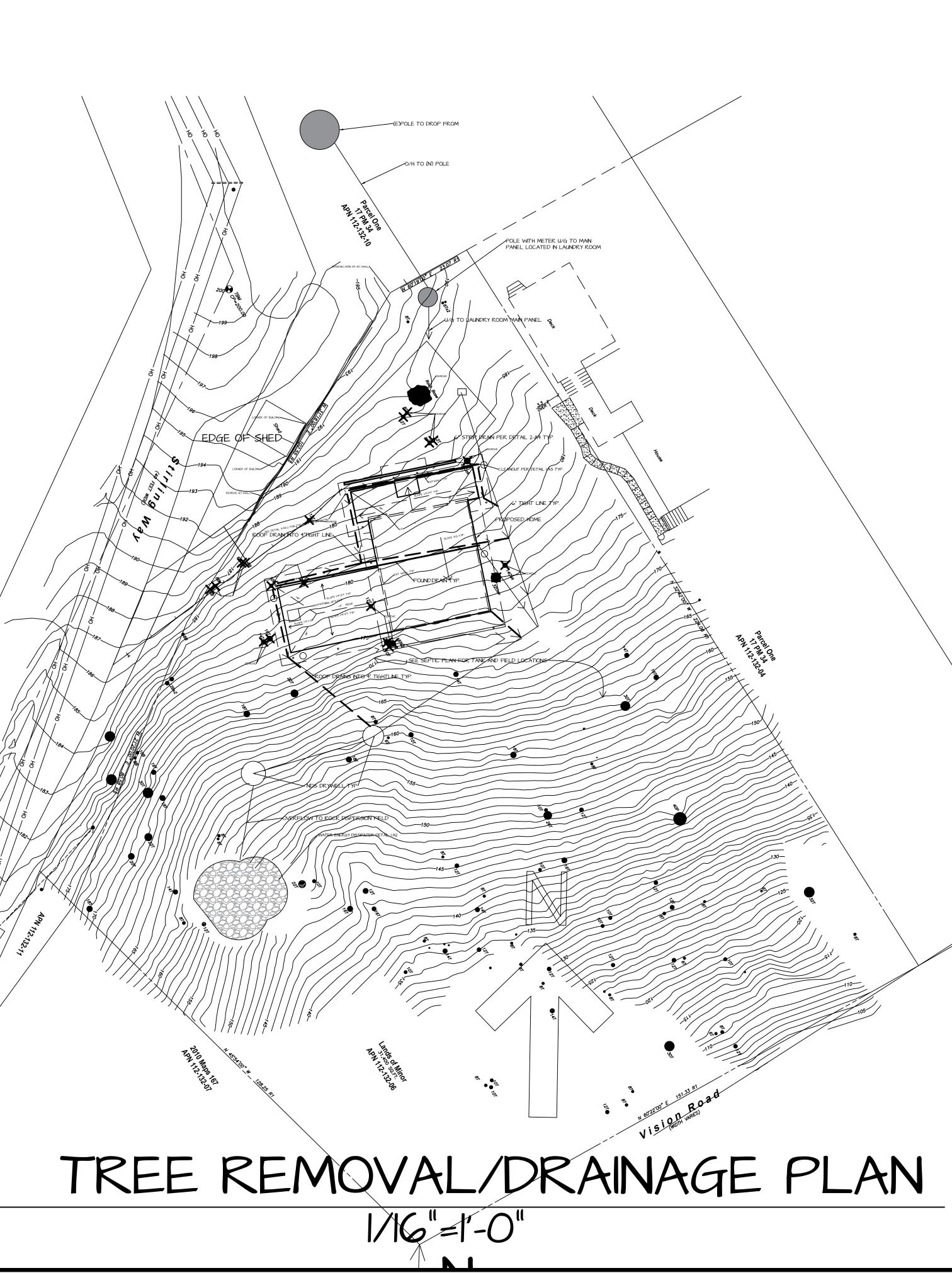


FIRE PROTECTION NOTES:

0'-5' FROM BUILDING. NO VEGETATION OR COMBUSTIBLES RECOMMENDED

|ZONE 1 | 5'-30' FROM BUILDING. REMOVE ALL DEAD VEGETATION, TRIM TREES REGULARLY TO KEEP BRANCHES 10' FROM OTHER TREES. REMOVÉ / PRUNE FLAMMABLE PLANTS NEAR WINDOWS.

|ZONE 2| FUEL-REDUCTION ZONE 31'-100' FROM BUILDING. CUT / MOW GRASS TO MAX 4' NON FIRE-RESISTIVE VEGETATION OR GROWTH SHALL BE KEPT CLEAR WITHIN 0'-100' OF BUILDING TO COMPLY WITH WOODSIDE FIRE PROTECTION CODE. TREE LIMBS LOCATED LESS THAN 10' ABOVE THE GROUND TO BE REMOVED FROM TREES WITHIN DEFENSIBLE SPACE.



Santa Rosa, CA 95403 530-308-8670 partolinidesigns@sbcglobal.net

www.bartolinidesigns.com

REVISIONS

TRICTIONS, AND CODE REQUIREMENTS WI

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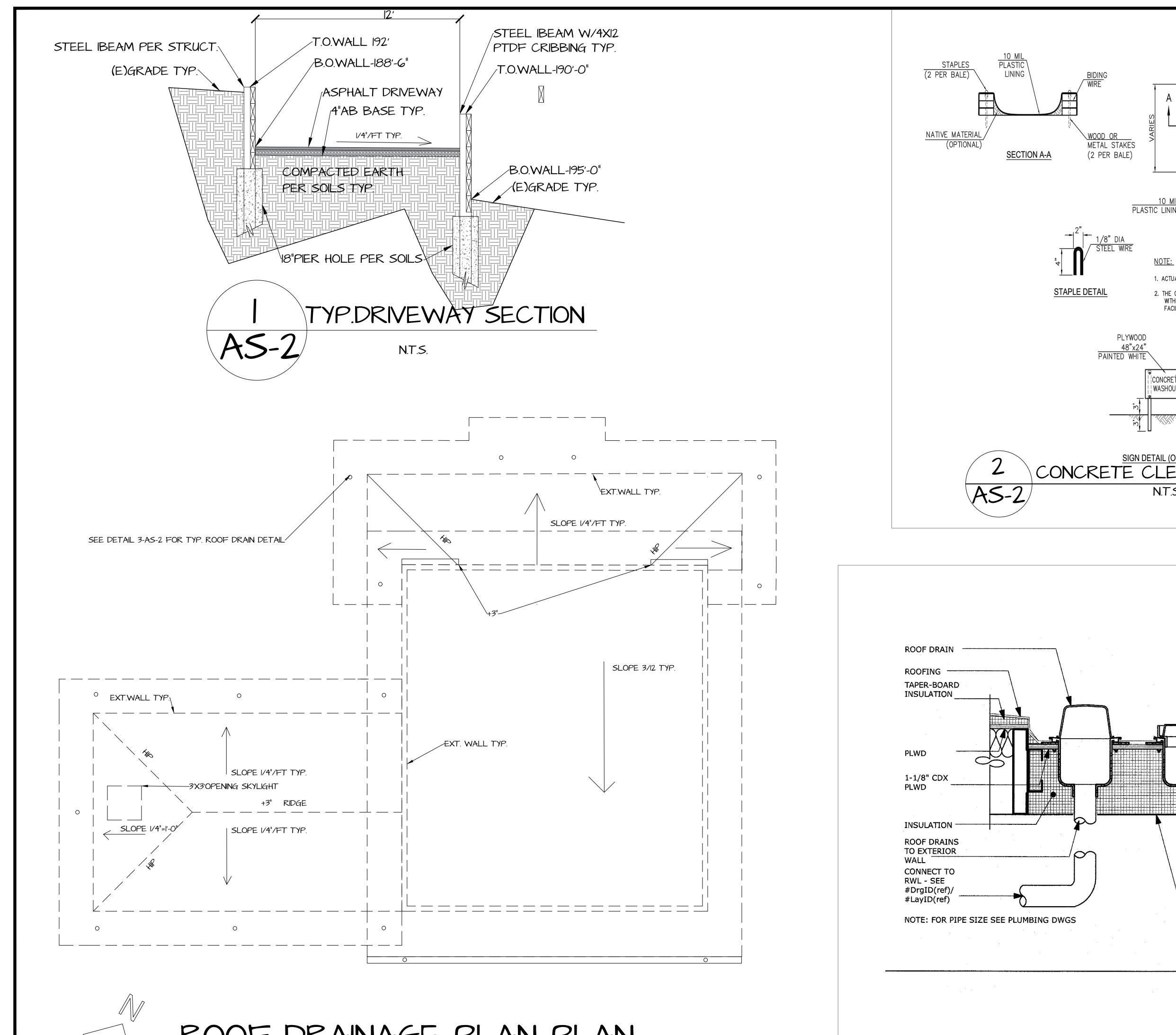
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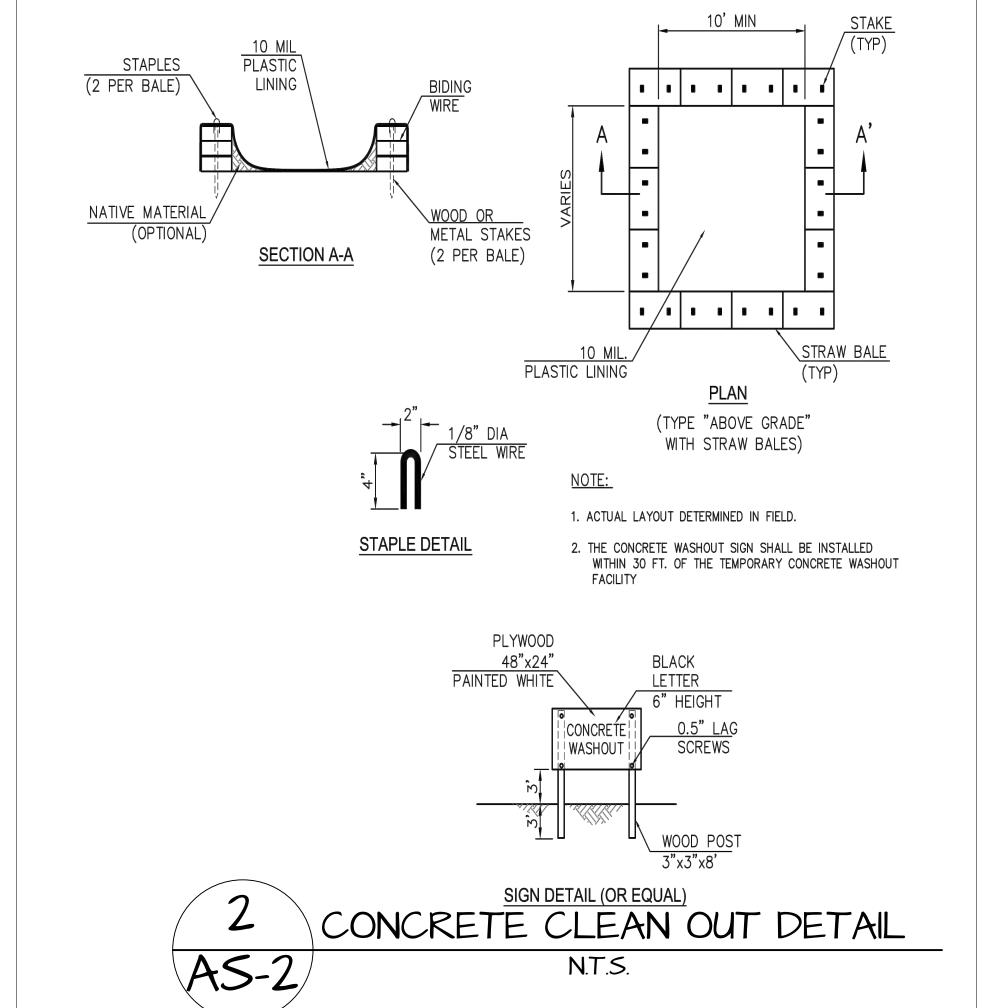
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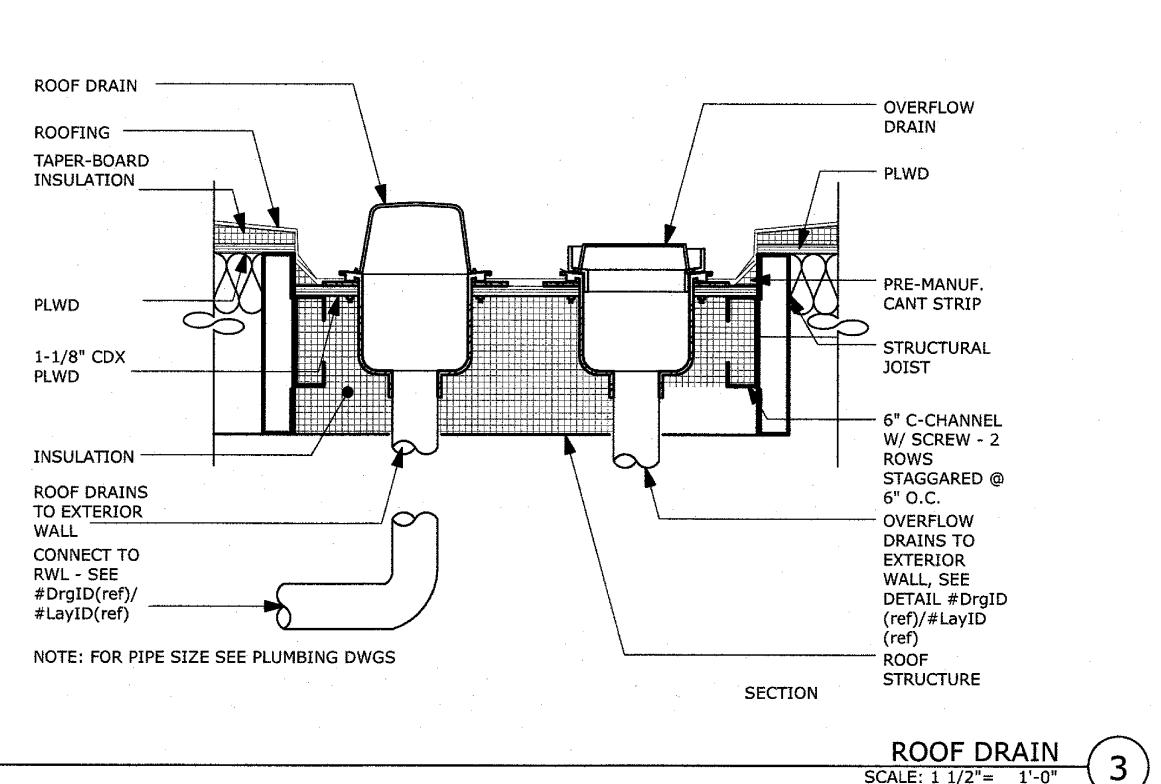
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DRAWN BY: SCALE: AS SHOWN









Bartolini DESIGNS

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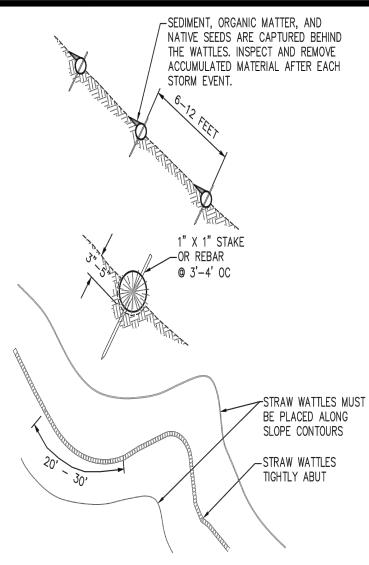
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OWNER

DATE: JAN. 13,2023 DRAWN BY:

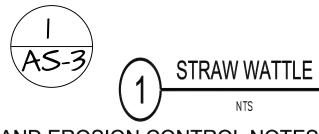
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ROOF DRAINAGE PLAN PLAN



<u>NOTES:</u>

- 1. STRAW WATTLES ARE TUBES MADE FROM STRAW AND BOUND W/ BIO-DEGRADABLE WRAPPED NETTING. THEY ARE APPROXIMATELY 8" DIA AND 20 - 30 FT LONG.
- 2. STRAW WATTLES TRAP SEDIMENT AND REDUCE SHEET & RILL EROSION BY REDUCING SLOPE GRADIENT, INCREASING INFILTRATION RATES AND BY PRODUCING A FAVORABLE ENVIRONMENT FOR PLANT ESTABLISHMENT.
- 3. STRAW WATTLE INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE IN A TRENCH, 3" - 5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND WATTLE.



GRADING AND EROSION CONTROL NOTES

1. ALL GRADING SHALL CONFORM TO THE APPLICABLE 2021CALIFORNIA BUILDING CODES.

(CONSTRUCTION SPECIFICATIONS)

PREPARE SLOPE BEFORE THE WATTLING

PROCEDURE IS STARTED. SHALLOW GULLIES

DIG SMALL TRENCHES ACROSS SLOPE ON

SHOULD BE SMOOTHED AS WORK PROGRESSES.

CONTOUR, TO PLACE WATTLES IN. THE TRENCH

SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE WATTLE. WHEN

THE SOIL IS LOOSE AND UNCOMPACTED, THE

TRENCH SHOULD BE DEEP ENOUGH TO BURY

THE WATTLE 2/3 OF ITS THICKNESS BECAUSE

WATTLES ARE INSTALLED PERPENDICULAR TO

WATER MOVEMENT, PARALLEL TO THE SLOPE

START BUILDING TRENCHES AND INSTALL

STEEPNESS OF SLOPE. THE STEEPER THE

AND WORK UP.

STRAW WATTLE.

STEEP SLOPES.

THE WOODEN STAKES.

WATTLES FROM THE BOTTOM OF THE SLOPE

CONSTRUCT TRENCHES AT CONTOUR INTERVALS

OF THREE TO EIGHT FEET APART DEPENDING ON

SLOPE, THE CLOSER TOGETHER THE TRENCHES.

LAY THE WATTLE ALONG THE TRENCHES FITTING

IT SNUGLY AGAINST THE SOIL. MAKE SURE NO

THROUGH THE WATTLE AND INTO THE SOIL FOR

HOLE INTO THE SOIL. LEAVE ONLY ONE OR TWO

GAPS EXIST BETWEEN THE SOIL AND THE

USE A STRAIGHT BAR TO DRIVE HOLES

DRIVE THE STAKE THROUGH THE PREPARED

INCHES OF STAKE EXPOSED ABOVE WATTLE.

INSTALL STAKES AT LEAST EVERY FOUR FEET

APART THROUGH WATTLE. ADDITIONAL STAKES

MAY BE DRIVEN ON THE DOWNSLOPE SIDE OF

THE TRENCHES ON HIGHLY EROSIVE OR VERY

THE GROUND WILL SETTLE. IT IS CRITICAL THAT

- 2. DUST CONTROL TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
- 3. AREA OF FILL SHALL BE SCARIFIED, BENCHING AND RECOMPACTED PRIOR TO REPLACING FILL.
- 4. FILL MATERIALS SHALL BE RECOMPACTED TO 90% MAXIMUM DENSITY.
- 5. REMOVE ANY DELETERIOUS MATERIAL ENCOUNTERED BEFORE PLACEING FILL.
- 6. NO CUT OR FILL SLOPE WILL BE CONSTRUCTED STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
- 7. ALL DISTURBED AREAS SHALL BE HYDRO SEEDED OR PLANTED WITH APPROVED EROSION CONTROL VEGETATION AS SOON AS PRACTICAL AFTER CONSTRUCTION IS COMPLETE.
- 8. ALL DISTURBED SURFACES RESULTING FROM GRADING SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION BY EFFECTIVE PLANTING SUCH AS RYE GRASS, BARLEY OR SOME OTHER FAST GERMINATING SEED.
- 9. CONTRACTOR TO FOLLOW STANDARD BMP PRACTISES.
- 10. ALL MATERIAL EXCAVATED AT SITE SHALL BE USED TO BACK FILL AROUND BASEMENT AREA AND SLOPED AWAY FROM BUILDING AT LEAST 2% GRADE AND FOR A DISTANCE OF AT LEAST 5'.
- 11. WHEN WINTER OPERATION TAKES PLACE THE FOLLOWING MEASURES MUST BE TAKEN TO PREVENT EROSION:
 - A. VEGETATION REMOVAL BETWEEN OCT.15TH & APRIL 15TH SHALL NOT PRECEDE SUBSEQUENT GRADING OR CONSTRCUTION ACTIVITIES BY MORE THAN 15 DAYS. DURINGTHIS TIME EROSION AND SEDIMET CONTROL MEASURES SHOULD BE IN PLACE.
 - B. BETWEEN OCT.15TH & APRLI 15TH, DISTURBED SURFACES NOT INVOLVED IN THE IMMEDIATE OPERATION MUST BE PROTECTED BY MULCHING AND/OR OTHER EFFECTIVE MEANS OF EROSION CONTROL.
 - C. RUN-OFF FROM THE SITE SHALL BE DETAINED OR FILTERED BY BERMS, VEGETATED FILTER STRIPS AND/OR CATCH BASIN TO PREVENT THE ESCAPE OF SEDIMENT FROM THE DISTURBED AREA OF SITE. THESE DRAINAGE CONTROLS MUST BE MAINTAINED BY THE CONTRACTOR AS NECESSARY TO ACHIEVE THEIR PURPOSE THROUGHOUT THE LIFE OF THE PROJECT.
 - D. EROSION CONTROL SHALL BE IN PLACE AT THE END OF EACH DAY'S WORK.
 - E. ALL ROADS & DRIVEWAYS SHALL HAVE DRAINAGE FACILITIES SUFFICIENT TO PREVENT EROSION ADJACENT TO THE ROADWAY OR ON THE DOWN HILL PROPERTIES.

FIBER ROLL EROSION PROTECTION

1. FIBER ROLL INSTALLATION REQUIRES THE FIBER ROLL TO BE STAKED IN A TRENCH, 3"-5" (75-125mm) DEEP, DUG ON CONTOUR SO THAT RUNOFF CAN NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

2. FIBER ROLL SHALL BE PLACED AS CLOSE TO THE BUILDING FOUNDATION AS POSSIBLE SO THERE WILL BE AS LITTLE DISTURBANCE AS POSSIBLE. 3. WEIGHTED FIBER ROLLS MAY BE SUBSTITUTED FOR TEMPORARY EROSION PROTECTION ON HARD SURFACES BUT PERMANENT EROSION PROTECTION SHALL BE REQUIRED PRIOR

4. FIBER ROLLS MAY BE SUITABLE: ALONG TOE, TOP, FACE AND AT GRADE BREAKS OF EXPOSED AND ERODIBLE SLOPES TO SHORTEN SLOPE LENGTH AND SPREAD RUNOFF AS SHEET FLOW, AT THE END OF A DOWNWARD SLOPE WHERE IT TRANSITIONS TO A STEEPER SLOPE, ALONG THE PERIMETER OF A PROJECT, AS CHECK DAMS IN UNLINED DITCHES, DOWNSLOPE OF EXPOSED SOIL AREAS AND AROUND TEMPORARY STOCKPILES

REVEGITATION / HYDROSEEDING

1. HYDROSEEDING CAN BE ACCOMPLISHED USING A MULTIPLE STEP OR ONE STEP PROCESS. THE MULTIPLE STEP PROCESS INSURES MAXIMUM DIRECT CONTACT OF THE SEEDS TO SOIL. WHEN THE ONE STEP PROCESS IS USED TO APPLY THE MIXTURE OF FIBER, SEED, ETC. THE SEED RATE SHALL BE INCREASED TO COMPENSATE FOR ALL SEEDS NOT HAVING DIRECT

2. PRIOR TO APPLICATION, ROUGHEN THE AREA TO BE SEEDED WITH THE FURROWS TRENDING ALONG THE CONTOURS 3. APPLY STRAW MULCH TO KEEP SEEDS IN PLACE AND TO MODERATE SOIL MOISTURE AND

TEMPERATURE UNTIL THE SEEDS GERMINATE AND GROW. 4. ALL SEEDS SHALL BE IN CONFORMANCE WITH THE CALIFORNIA STATE SEED LAW OF THE DEPARTMENT OF AGRICULTURE. EACH SEED BAG SHALL BE DELIVERED TO THE SITE SEALED AND CLEARLY MARKED AS TO SPECIES, PURITY, PERCENT GERMINATION, DEALER'S GUARANTEE AND DATES OF TEST. THE CONTAINER SHALL BE LABELED TO CLEARLY REFLECT THE AMOUNT OF PURE LIVE SEED (PLS) CONTAINED. ALL LEGUME SEED SHALL BE PELLET INOCULATED. INOCULANT SOURCES SHALL BE SPECIES SPECIFIC AND SHALL BE APPLIED AT A RATE OF 2 LB OF INOCULANT PER 100 LB OF SEED.

5. FOLLOW UP APPLICATIONS SHALL BE MADE AS NEEDED TO COVER WEAK SPOTS AND TO MAINTAIN ADEQUATE SOIL PROTECTION. 6. AVOID OVER SPRAY ONTO ROADS, SIDEWALKS, DRAINAGE CHANNELS, EXISTING VEGETATION,

MATERIAL DELIVERY AND STORAGE

- 1. TEMPORARY STORAGE AREAS SHOULD BE LOCATED AWAY FROM VEHICULAR TRAFFIC. 2. MATERIAL SAFETY DATA SHEETS (MSDS) SHOULD BE SUPPLIED FOR ALL MATERIALS
- 3. CONSTRUCTION SITE AREAS SHOULD BE DESIGNATED FOR MATERIAL DELIVERY AND STORAGE.
- 4. SURROUND TEMPORARY STORAGE AREAS WITH BERMS, FIBER ROLLS OR SILT FENCE WHERE APPLICABLE.
- 5. STORAGE OF REACTIVE, IGNITABLE, OR FLAMMABLE LIQUIDS MUST COMPLY WITH THE LOCAL FIRE CODES. CONTACT THE LOCAL FIRE MARSHALL TO REVIEW SITE MATERIALS, QUANTITIES, AND PROPOSED STORAGE AREA TO DETERMINE SPECIFIC REQUIREMENTS.
- 6. HAZARDOUS MATERIALS STORAGE ONSITE SHOULD BE MINIMIZED.
- . DO NOT STORE CHEMICALS, DRUMS, OR BAGGED MATERIALS DIRECTLY ON THE GROUND. PLACE THESE ITEMS ON A PALLET AND, WHEN POSSIBLE, IN SECONDARY CONTAINMENT.
- 8. STOCKPILES SHOULD BE PROTECTED IN ACCORDANCE WITH STOCKPILE MANAGEMENT 9. KEEP STORAGE AREAS CLEAN, WELL ORGANIZED AND EQUIPPED WITH AN AMPLE SUPPLY
- OF CLEAN UP SUPPLIES AS APPROPRIATE FOR THE MATERIALS BEING STORED.

STORY POLE PROGRAM

SP#	(E)GRADE	T.O.ROOF	HT.ABOVE GRADE
#1	182'-0"	199'-3 1/2"	17'-3 1/2"
#2	181'-0"	109'-3 1/2"	17'-3 1/2"
#2 UPPER	181'-0"	204'-6"	23'-6"
#3	184'-0"	206'-8"	22'-8"
#4	184'-6"	195'-9"	l'-3"
#5	186'-6"	196'-0"	9'-6"
#6	184'-0"	194'-6"	10'-6"
#7	182'-0"	193'-3"	l'-3"
#8	182'-4"	205'-2"	22'-10"
#9	175'-0"	192'-10"	17'-10"
#10	175'-0"	192'-10"	17'-10"
#	176'-6"	198'-0"	21'-6"

61 Ellie Dr.

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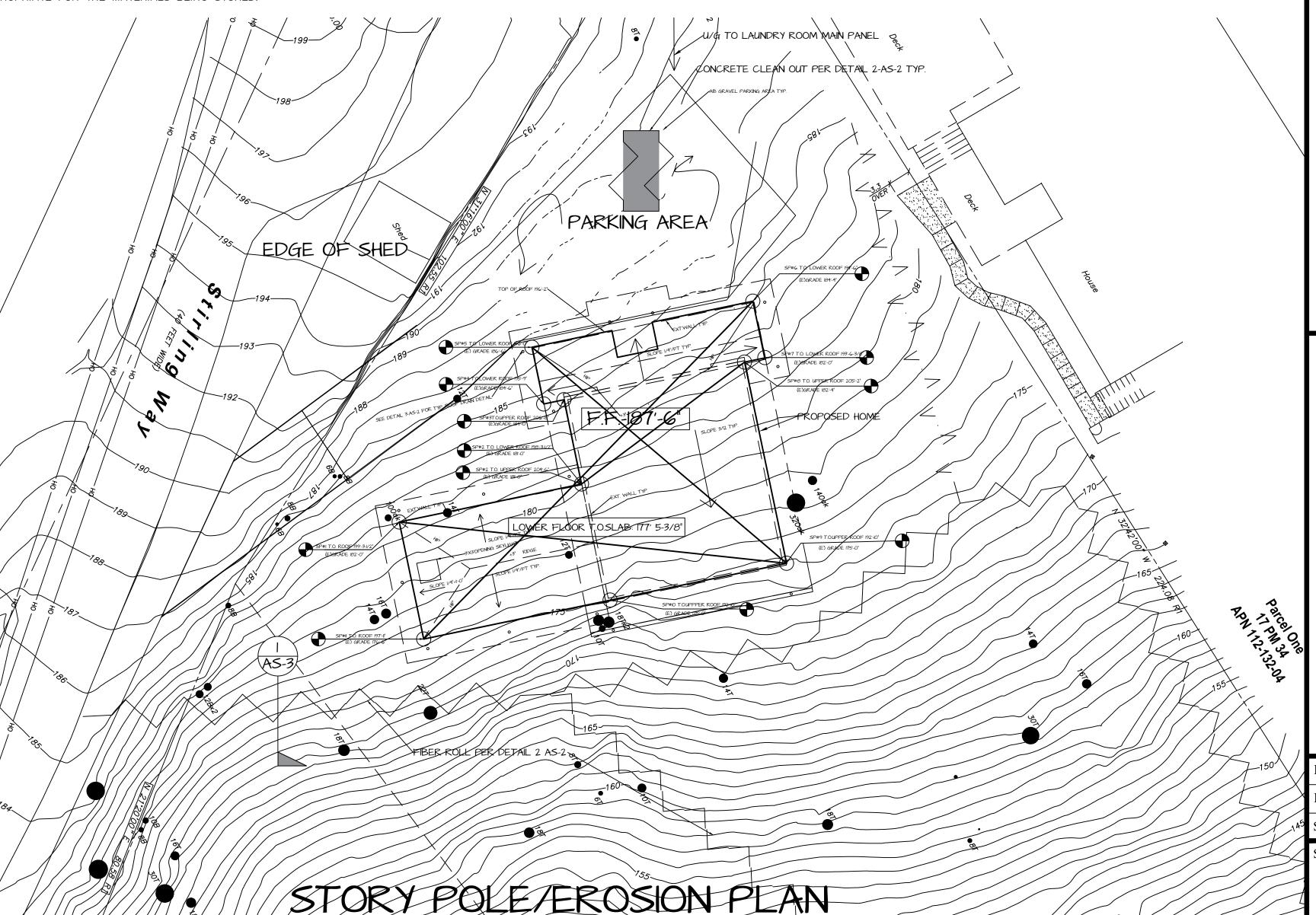
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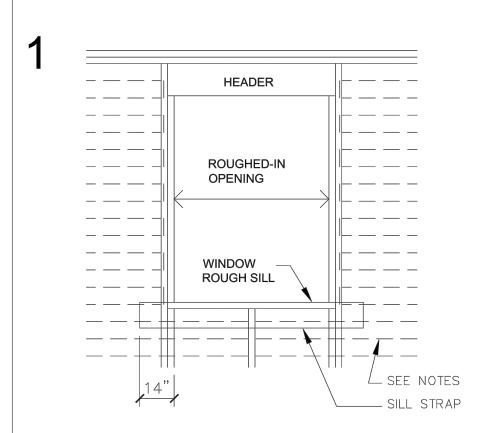


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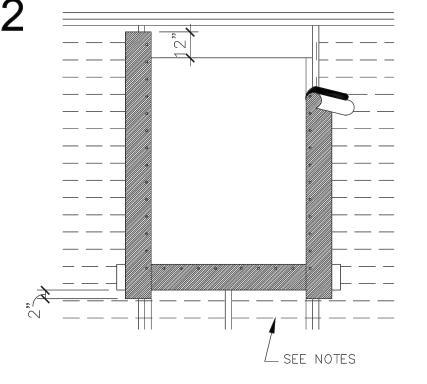
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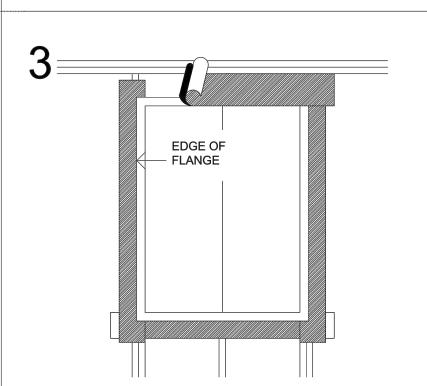
DRAWN BY: SCALE: AS SHOWN



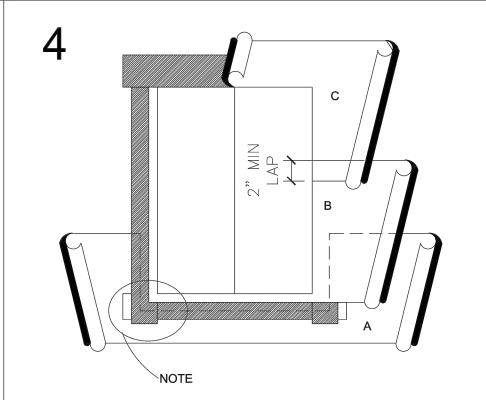
ATTACH A SILL STRIP OF 'FUTURE FLASH' AT LEAST 12" WIDE WITH THE TOP EDGE EVEN WITH THE TOP EDGE OF THE ROUGH SILL. EXTEND THIS SILL STRIP AT LEAST 14" BEYOND THE EDGE OF THE ROUGH OPENING FOR WINDOW, ATTACH FLASHING WITH GALVANIZED ROOFING NAILS OR RUST-RESISTANT STAPLES.



AFTER SILL STRIP IS IN PLACE ATTACH JAMB STRIPS (SIDE OF OPENING) AT LEAST 12" WIDE WITH INSIDE EDGE OF FLASHING FLUSH WITH EDGE OF WINDOW OPENING. START JAMB STRIPS 1" BELOW THE SILL STRIP AND EXTEND JAMB STRIPS 12" ABOVE THE LOWER EDGE OF THE HEADER (TOP OF WINDOW OPENING).



APPLY A CONTINUOUS BEAD OF SEALANT TO THE BACK SURFACES OF THE WINDOW FLANGE, THEN PLACE THE WINDOW INTO THE ROUGH OPENING WITH FLANGES OVER THE INSTALLED FLASHING STRIPS. AFTER WINDOW IS PLACED, INSTALL THE HEAD FLASHING OVER THE WINDOW FLANGE. THIS IS ANOTHER STRIP OF FLASHING AT LEAST 12" WIDE, CAULK HEAD FLASH TO WINDOW FLANGE. APPLY SECOND BEAD OF CAULK TOPS 900 AT WINDOW FLANGE AND FLASHING JOINT. THEN SMOOTH WITH BLADE TO ELIMINATE ALL GAPS.



STARTING AT THE BOTTOM OF THE WALL (SOLE PLATE), LAY 60 MINUTE GRADE 'D' PAPER UNDER THE SILL STRIP. CUT ANY EXCESS WATER-RESISTANT PAPER THAT MAY EXTEND ABOVE THE SILL FLANGE ON EACH SIDE OF THE OPENING. (SHOWN IN DIAGRAM AS SHORT DASH LINES). INSTALL SUCCEEDING COURSES OF WATER-RESISTANT PAPER (B. C. ETC.) OVER JAMB AND HEAD FLANGES IN SHINGLE-BOARD FASHION. PAPER SHOULD RUN CONTINUOUSLY OVER HEAD WITH NO SPLICES ABOVE WINDOW.

MINOR WINDOW SCHEDULE

	SIZE	AMOUNT			DESCRIPTION/TYPE	MATERIAL FINISH	COMMENTS
							ALL WINDOWS TO BE SIERRA PACIFIC URBAN
			WIDTH	HEIGHT	ALL HANDS ARE FROM EXT.		SERIES ALUMINUM CLAD COLOR BLACK 023
SYMBOL	ROUGH OPENING					JAMB	TEMP.1 SIDE PER WUI
1	SEE MANUFACTORER INFO	1	4'-0"	5'-0"	FXD O/18" AWNING	WOOD T.B.D.	MULLED TOGETHER, SEE ELEV.
2	II.	1	1'-0"	6'-6"	FXD	11	TEMPERED B.S.
3	!!	1	1'-0"	6'-6"	FXD.	n	TEMPERED B.S.
4	11	1	4'-0"	5'-0"	FXD O/18" AWNING	П	MULLED TOGETHER, SEE ELEV.
5	11	1	4'-0"	5'-0"	FXD O/18" AWNING	11	MULLED TOGETHER, SEE ELEV.
6	II .	1	4'-0"	5'-0"	FXD O/18" AWNING	п	MULLED TOGETHER, SEE ELEV.
7	н	1	4'-0"	ANGLED	FXD.	п	ANGLED TOP FIELD VERIFY
-			EL 011	71.011	EVE C /40" ANAMAUNIC		MULLED TOGETHER, SEE ELEV. AWNING
8	II	1	5'-3"	7'-9"	FXD O/18" AWNING	II II	TEMP.
			E1 011	71.00	EVE C (40" ANALYSIS		MULLED TOGETHER, SEE ELEV. AWNING
9	п	1	5'-3"	7'-9"	FXD O/18" AWNING	п	TEMP.
			E1 011	71.00	EVE C (40" ANAMAUNIC		MULLED TOGETHER, SEE ELEV. AWNING
10	п	1	5'-3"	7'-9"	FXD O/18" AWNING	п	TEMP.
			E1 011	71.00	EVE C (4011 ANALYSIS		MULLED TOGETHER, SEE ELEV. AWNING
11	п	1	5'-3"	7'-9"	FXD O/18" AWNING	п	TEMP.
			01.011	71.00	EVE O/O 40% ANABURIO		MULLED TOGETHER, SEE ELEV. AWING
12	п	1	8'-0"	7'-0"	FXD. 0/2-18" AWNING	п	TEMPERED
			21.01	41.611	EVE C /2 All ANAMAUNIC		MULLED TOGETHER, SEE ELEV. TEMPERED
13	п	1	3'-0"	4'-6"	FXD. O/24" AWNING	п	AT SHOWER
14	II .	1	2'-0"	5'-0"	CSMNT. RH	п	
15	11	1	2'-0"	5'-0"	CSMNT.LH	п	
16	H	1	2'-0"	5'-0"	CSMNT.RH	II	
17	II .	1	1'-6"	5'-0"	CSMNT.RH	п	
18	н	1	1'-6"	5'-0"	CSMNT.LH	п	
19	II.	1	4'-0"	ANGLED	FXD.	п	UPPER WINDOW
20	II	1	3'-0"	4'-0"	CSMNT.RH	п	
21	п	1	4'-0"	5'-0"	FXD O/18" AWNING	II .	
22	п	1	2'-8"	5'-0"	FXD.	11	TEMPERED NEXT TO DOOR
23	II .	1	2'-8"	5'-0"	FXD.	n	TEMPERED NEXT TO DOOR
24	II .	1	4'-0"	6'-6"	FXD O/18" AWNING	п	TEMPERED AT TUB
25	II .	1	2'-0"	3'-0"	AWNING	II .	TEMPERED AT SHOWER
26	11	1	2'-0"	5'-0"	FXD.	11	TEMPERED NEXT TO DOOR
27	II.	1	2'-0"	2'-0"	FXD.	n	TEMPERED NEXT TO DOOR
28	п	2	3'-8"	3'-11"	AWNING	п	
29	11	2	3'-8"	3'-11"	FXD.	п	
30	п	4	3'-11"	3'-11"	FXD	п	

	Α	С	D	E	F	G	Н	<u> </u>	J	K
1						MINOR	HOUS	E DOORS		
2	DOOR LETTER	DESCRIPTION	AMOUNT	SWING FROM OUTSIDE	FINISH	DOOR SIZE W-H	TYPE	THRESHOLD	MANFCTR	NOTES
3		EXTERIOR								
4	Α	ENTRY DOOR	1	RH/INSWING	BLK.	3'-0"X7'-0"	GLASS PANEL	ALUMINUM	SIERRA PACIFIC	SIERRA PACIFIC URBAN SERIES COLOR BLACK 023
5	В	DINING ROOM	1	MULTI SLIDE STACKING RT.	BLK.	12'-0"X8'-0"	GLASS PANEL	ALUMINUM	SIERRA PACIFIC	SIERRA PACIFIC URBAN SERIES COLOR BLACK 023
6	С	MASTER BEDROOM	1	SLIDER XOOX	BLK.	12'-0" X 8'-0"	GLASS PANEL	ALUMINUM	SIERRA PACIFIC	SIERRA PACIFIC URBAN SERIES COLOR BLACK 023
7	D	LOWER FLOOR ENTRY	1	LH/INSWING	BLK.	3'-0" X 7'-0"	GLASS PANEL	ALUMINUM	SIERRA PACIFIC	SIERRA PACIFIC URBAN SERIES COLOR BLACK 023
8	E	LOWER FLOOR LIVING ROOM	1	SLIDER XOOX	BLK.	10'-0" X 8'-0"	GLASS PANEL	ALUMINUM	SIERRA PACIFIC	SIERRA PACIFIC URBAN SERIES COLOR BLACK 023
9	F	LOWER FLOOR BEDROOM] 1	SLIDER XO	BLK.	6'-0" X 8'-0"	GLASS PANEL	ALUMINUM	SIERRA PACIFIC	SIERRA PACIFIC URBAN SERIES COLOR BLACK 023
10	G	STORAGE/UTIL ITY	1	RH/INSWING	BLK.	3'-0" X 7'-0"	SOLID CORE	ALUMINUM	T.B.D.	SOLID CORE PAINT GRADE
11		INTERIOR								
12	Н	OFFICE	1	LH/INSWING	T.B.D.	2'-8" x 7'-0"	Wood Panel	NONE	T.B.D.	INTERIOR DOORS TO BE DETERMINED
13	I	LAUNDRY	1	RH/INSWING	T.B.D.	2'-10" X 7'-0"	Wood Panel	π	TI .	
14	J	ENTRY CLOSET	1	BIPASS	T.B.D.	4'-0" X 7'-0"	Wood Panel	н	II	
15	K	POWDER ROOM	1	LH/INSWING	T.B.D.	2'-4" X 7'-0"	Wood Panel	11	11	
16	L	MASTER BEDROOM	1	RH/POCKET	T.B.D.	8'-0" X 7'-0"	WOOD PANEL	"	11	ELECTRIC POCKET DOC
17	М	MASTER CLOSET	1	LH/INSWING	T.B.D.	2'-4" X 7'-0"	WOOD PANEL	п	Ħ	
18	N	TOILET ROOM	1	LH/INSWINGR H/BARNDOOR	T.B.D.	2'-2" X 7'-0"	WOOD PANEL	11	n	
19	0	LOWER FLOOR CLOSET	1	RH/OUTSWIN G	T.B.D.	3'-0" X 7'-0"	WOOD PANEL	11	п	
20	Р	LOWER FLOOR BATHROOM	1	LH/INSWING	T.B.D.	2'-10" X 7'-0"	WOOD PANEL	н	n	
21	Q	LOWER FLOOR CLOSET	1	4'-0" X 7'-0"	T.B.D.	2'8" X 6'-8"	WOOD PANEL	н	n	

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REVISIONS

IALL BE CONSTRUED TO PERMIT AN INSTALLATIC OLATION OF ANY APPLICABLE CODES AND OR STRICTIONS. SHOULD ANY CHANGE IN THE SEINGS OR SPECIFICATIONS BE REQUIRED, THE ONTRACTOR SHALL NOTIFY THE DESIGNER AND WNER AT ONCE AND CEASE WORK ON ALL PART HE PROJECT THAT ARE AFFECTED. THE WORK ERFORMED UNDER THIS CONTRACT SHALL BE IN ICCORDANCE WITH THE LATEST RULES, REGULA EESTRICTIONS, AND CODE REQUIREMENTS WITH ANY EXCEPTION.

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PROJECT

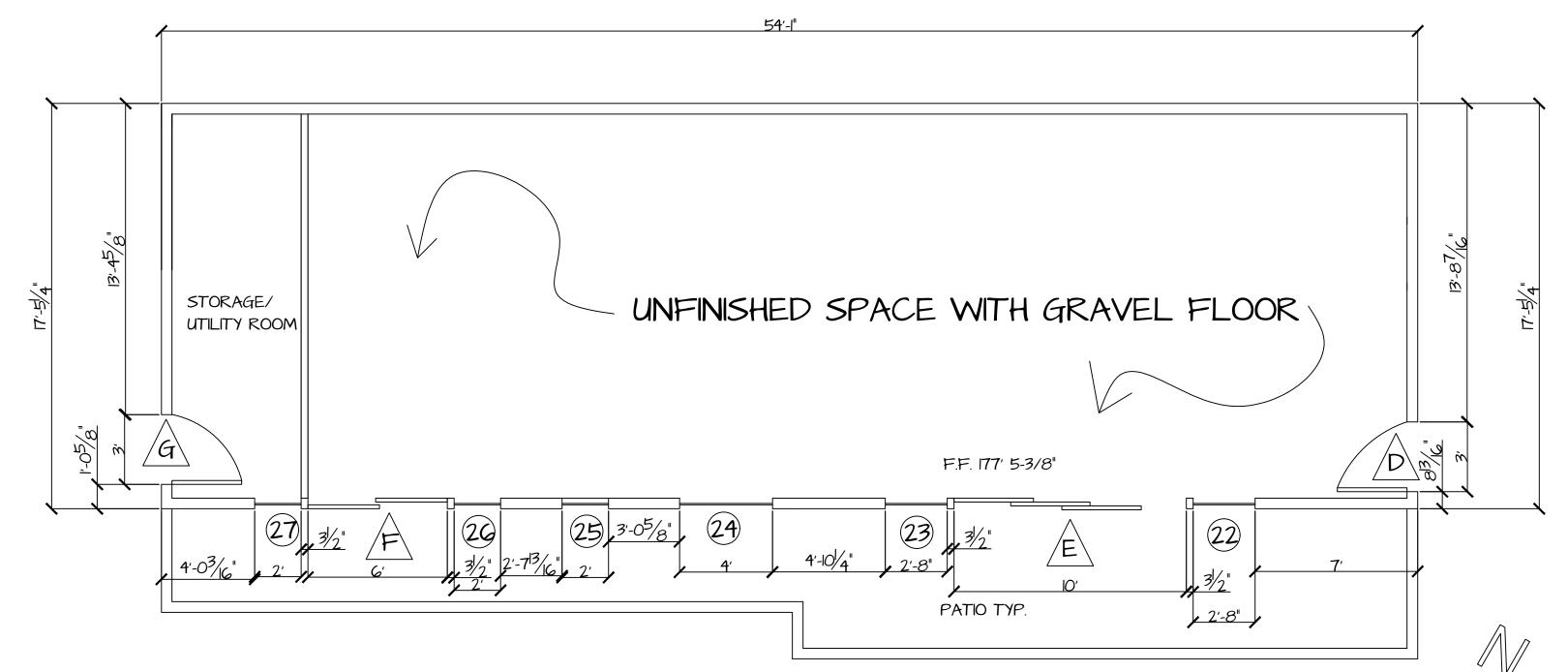
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DATE: JAN. 13,2023 DRAWN BY:

SCALE: AS SHOWN

VENTILATION NOTES

- 1. Kitchens and bathrooms shall have local exhaust systems vented to the outdoors.
- 2. Clothes dryers shall be vented to the outdoors.
- 3. Miscellaneous indoor air quality design requirements apply, including:
 - a. Ventilation air shall come from the out of doors and shall not be transferred from adjacent dwelling units, garages or crawl spaces.
 - b. Ventilation system controls shall be labeled and the homeowner shall be provided with instructions on how to operate the system.
 - c. Combustion appliances shall be properly vented and air systems shall be designed to prevent back
 - d. The wall and openings between the house and the garage shall be sealed.
- 4. Habitable rooms shall have windows with a ventilation area of at least 4 percent of the floor area.
- 5. Mechanical systems including heating and air conditioning systems that supply air to habitable spaces shall have MERV 6 filters or better.
- 6. Air inlets (not exhaust) shall be located away from known contaminants.
- 7. Air moving equipment used to meet either the whole-building ventilation requirement or the local ventilation exhaust requirement shall be rated in terms of air flow and sound.
 - a. All continuously operating fans shall be rated at a maximum of 1.0 sone.
 - b. Intermittently operated whole-building ventilation fans shall be rated at a maximum of 1.0 sone.
 - c. Intermittently operated local exhaust fans shall be rated at a maximum of 3.0 sones.
 - d. Remotely located air-moving equipment (mounted outside of habitable spaces) need not meet



LOWER FLOOR PLAN

1/4"=1'-0" 104 SF UTILITY ROOM

FLOOR PLAN NOTES

I. ALL WORK AND MATERIAL SHALL BE PREFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS ADOPTED BY THE INSPECTION AUTHORITY. ALL WORK FOR THIS PROJECT AND THIS SET OF PLANS WILL COMPLY WITH APPLICABLE 2019 CODES.

A. CALIFONIA BUILDING CODE B. CALIFORNIA PLUMBING CODE

C. CALIFORNIA MECHANICAL CODE D. CALIFORNIA ELECTRICAL CODE

E. CALIFORNIA CODE OF REGULATIONS TITLE 24

2. ALL GUARDRAIL AND BALCONY RAILING ARE TO RESIST A HORIZONTAL FORCE OF 20LBS/FT PER CURRENT CBC WITH A HEIGHT OF 42" TYP. 3. ALL GLASS WINDOWS AND DOORS INCLUDING SHOWER ENCLOSURES WITHIN 30" OF TUB OR SHOWERS AND LESS THAN GO" ABOVE THE DRAIN SUBJECT TO HUMAN IMPACT MUST HAVE SAFETY GLAZING OR A PROTECTIVE GRILL OR PUSH BAR PER CURRENT CBC. SAFETY GLAZING MATERIAL, SUCH AS LAMINATED GLASS, TEMPERED GLASS, WIRED GLASS OR SAFETY PLASTIC SHALL BE INSTALLED WITHIN 24" ARC OF ANY DOOR, LESS THAN 18" ABOVE THE FLOOR, GREATER THAN 3G" HORIZONTALLY FROM ONE OR MORE WALKING SURFACE OR GLAZING IN RAILINGS REGARDLESS OF HEIGHT ABOVE A WALKING SURFACE.

4. INTERMEDIATE RAILS OR ORNAMENTAL DESIGN SUCH THAT NO OBJECT 4" IN DIAMETER CAN PASS THROUGH PER CURRENT CBC.

5. PROVIDE CRAWL SPACE ACCESS 18" X 24" MIN. TO ALL UNDER FLOOR

6. GYP.BOARD 1/2" @ 16", 5/8" @ 24", TYPE X WHERE REQUIRED OR NOTED, WATER RESISTANT @ BATH & DAMP LOCATIONS. 7. PROVIDE TUB PLUMBING ACCESS OPENING 12" X 12" MIN. OR USE NON SLIP

8. PROVIDE A NON-ABSORBENT SURFACE AT ALL TUB & SHOWER

ENCLOSURES TO A HEIGHT OF 70" ABOVE DRAIN MIN. 9. SKYLIGHTS SHALL COMPLY WITH CBC SECTION FOR GLAZING SKYLIGHTS. OR WITH CBC FOR PLASTIC SKYLIGHTS. USE TEMPERED GLASS WITH SCREEN OR DOUBLE GLASS WITH INTERIOR LAYER.

10. PROVIDE NATURAL VENTILATION IN BATHROOMS AND TOILET COMPARTMENTS BY MEANS OF OPENABLE EXTERIOR WALL OPENINGS WITH AN AREA NOT LESS THAN 1/20 OF ROOM FLOOR AREA, (MINIMUM 1-1/2 SQUARE FEET). A MECHANICAL VENTILATION SYSTEM CAPABLE OF PROVIDING FIVE AIR CHANGES PER HOUR MAY BE SUBSTITUTED.

II. PROVIDE NATURAL VENTILATION BY MEANS OF OPENABLE EXTERIOR OPENINGS WITH AN AREA OF NOT LESS THAN 5% OF FLOOR AREA. (MINIMUM 5 SQUARE FEET). A MECHANICAL VENTILATION SYSTEM CAPABLE OF PROVIDING TWO AIR CHANGFES PER HOUR MAY BE SUBSTITUTED. 12. NAILING TO BE IN COMPLIANCE WITH CBC TABLE 23-11-B-1.

13. WALLS AND SOFFITS OF ENCLOSED USABLE SPACES UNDER STAIRS SHALL BE PROTECTED WITH I-HOUR RATED MATERIAL ON THE ENCLOSED 14. OCCUPANCY SEPERATION BETWEEN GARAGE AND HOUSE SHALL BE OF

I-HOUR CONSTRUCTION (5/8" TYPE X) ON GARAGE SIDE WITH A SELF-CLOSING, TIGHT FITTING, SOLID CORE DOOR 1-3/8" MIN. INJ THICKNESS OR 20 MIN.RATED DOOR. UNDER NO CIRCUMSTANCES SHALL APRIVATE GARAGE HAVE AN OPENING INTO ANY ROOM USED FOR SLEEPING. 15. WHERE AIR DUCTS PENETRATE THE GARAGE-RESIDENCE FIRE

SEPERATION, THEY SHALL BE OF 26 GUAGE STEEL WITH NO OPENINGS IN THE GARAGE, UNLESS EQUIPED WITH FIRE DAMPERS IG. PROVIDE MANUFACTORE'S COMPLETE SUBMITTAL/INSTALLATION MANUALS AND ICBO ES/ER-REPORTS/NUMBER FOR ALL MATERIALS & METHOD OF CONSTRUCTION.

I. ALL WORK & MATERIALS TO CONFORM TO 2019 CALIFORNIA MECHANICAL

2. ALL HVAC EQUIPMENT SHALL BE CERTIFIED BY CEC. 3. ALL EXHAUST FANS SHALL HAVE DRAFT DAMPERS & PROVIDE VENTILATION OF AT LEAST FIVE AIR EXCHANGES PER. HOUR.

MECHANICAL

4. OUTPUT CAPACITY OF GAS FURNACE SHALL MEET TITLE 24 REQUIREMENTS. EXACT SIZE, MAKE AND MODEL TO BE SPECIFIED BY SYSTEM DESIGNER.

5. DUCTS IN UNINSILATED SPACES SHALL BE INSULATED PER CEC MIN.R-4. 6. PROVIDE SETBACK TIME CLOCK THERMOSTAT FOR HEATING SYSTEM. 7. HEATING SYSTEM: SHALL PROVIDE HEATING SUFFICIENT TO MEET REQ'S SET FORTH IN UBC. (70 F AT 3FT. ABOVE FLOOR IN EACH HABITABLE ROOM.) 8. ALL COMBUSTIBLE MATERIALS ABOVE KITCHEN RANGE, 30"

(UNPROTECTED), 24" (PROTECTED) PER CMC. 9. PROVIDE FURNACE ACCESS AND CLEARANCE AS REQUIRED CMC. IO. SUBMIT GAS LINE SIZING FOR APPROVAL TO THE BUILDING INSPECTION OFFICE OR NOTE ON PLANS THAT PLANS WILL BE PROVIDED BY THE

CONTRACTOR BEFORE INSPECTION. II. PROVIDE PERMANENT LIGHT OUTLET AND LIGHT FIXTURE AT OR NEAR THE FURNACE OR WATR HEATER CONTROLLED BY A SWITCH LOCATED AT THE

REQUIRED PASSAGE WAY OPENING. 12. FURNACE TO BE SUPPIED BY A DEDICATED CIRCUIT.

13. HEATING SYSTEM TO BE INSTALLED PER UMC CHAPTER 7. 14. SPECIFY THAT GAS PIPE MAY BE INSTALLED IN OR ON THE GROUND IN BUILDING ONLY IF IT IS IN A SEALED CONDUIT. THE SEALED CONDUIT MUST CIONSIST OF PIPE APPROVED FOR UNDERGOROUND USE WITH A WALL

THICKNESS OF NOT MLESS THAN SCHEDULE 40.

15. SPECIFY THAT THE UNDERGORUND METAL GAS PIPE MUST BE ELECTRICALLY ISOLATED FROM INTERIOR GAS PIPE BY AN APPROVED INSULATION FITTING INSTALLED AT LEAST 6' ABOVE GROUND. 16. ALL INSTALLATION INSTRUCTIONS FOR ALL EQUIPMENT SHALL BE

PROVIDED TO THE FIELD INSPECTOR AT THE TIME OF INSPECTION. 17. ALL NEW APPLIANCE SHALL MEET CEC REQUIREMENTS AND BE ENERGY 18. ALL FACTORY MADE FLEXIBLE AIR DUCTS SHALL BE INSTALLED

ACCORDING TO THEIR INSTALLATION INSTRUCTIONS AND STANDARDS SET BY THE CODE AND TO USE ULIBIB TAPE. NO PLENUMS ALLOWED WITHOUT DUCTING. SHEET 3 CMC SECTIONS 601.2

19. ALL AIR DUCTS PENETRATING SEPERATION WALL OR CEILING BETWEEN GAGARGE AND LIVING AREA SHALL BE 26 GA. MINIMUM. 20. SMOOTH METAL DUCT SHALL BE USED FOR DRYER EXSHAUST EXTENDING

TO THE OUTSIDE WITH BACK DRAFT DAMPER. 21. FIRE AND SMOKE DAMPER PER CBC 713.10.11 REQUIRED WHERE DUCTS PENETRATE THE CORRIDOR.

22. COMBUSTION AIR FOR WATER HEATER AND MECHANICAL EQUIPMENT ONE OPENING SHALL BE LOCATED WITHIN THE UPPER 12" OF THE ENCLOSURE & ONE OPENING SHALL BE LOCATED WITHIN THE LOWER 12" OF ENCLOSURE. 23. AN APPROVED AND ACCESIBLE SHUTOFF VALVE SHALL BE INSTALLED IN FUEL SUPPLY PIPING OUTSIDE OF EACH APPLAINCE AND AHEAD OF UNION CONNECTION MTHERETO, AND IN ADDITION TO ANY VALVE ON APPLIANCE. SHUTOFF VALVES SHALL BE WITHIN 3 FT. OF APPLAINCE THEY SERVE AND IN SAME ROOM OR SPACE WHERE APPLIANCE IS LOCATED.

24. WALL FURNACE a. A. THE VENT FOR WALL FURNACE SHOULD BE TYPE BW GAS VENT b. FIRST CEILING PLATE ABOVE FURNACE IN A STUD CAVITY ENCLOSING VENT

MECHANICAL CONTINUED

c. WHEN BW VENT EXTENDS THROUGH ATTIC IN SINGLE STORY BUILDING, METAL SLEEVE NOT LESS THAN #26 MANUFACTURE'S STANDARD GAGE STEEL, HAVING THE AME AREA AS THE OPENING THROUGH THE CEILING PLATE, SHOULD BE EXTENDED TO A POINT AT LEAST 12" ABOVE TOP OF CEILING PLATE OR 2" BELOW ROOF SHEATHING. WHICHEVER IS LESSER. d. TYPE BW GAS VENT SHOULD EXTEND FROM HEADER PLATE AT A POINT ABOVE HIGHEST CEILING PLATE WITHOUT ANY OFFSETS OR CROSSOVERS. e. SHEET METAL BARRIER SHOULD BE INSTALLED BETWEEN TYPE BW GAS VENT LOCATED IN STUD SPACE AND WALL COVERING CONSTRUCTED OF PERFORATED LATH, METAL LATH OR BUILDING PAPER. f. TYPE BW GAS VENT SHOULD TERMINATE AT LEAST 12' ABOVE BOTTOM

25. DRYER MOISTURE EXHAUST DUCT SHALL NOT EXCEED A TOTAL COMBINED HOR GARAGES,Ê NIZONATL AND VERTICAL LENGTH OF 14 FT., INCLUDING TWO 90 DEGREE ELBOWS.

PLUMBING

I. ALL WORK AND MATERIALS TO COMPLY WITH 2019 CALIFORNIA PLUMBING CODE.

2. IF POSSIBLE, GATHER ALL VENTS & FLUES & LOCATE ON REAR OF ROOF SO AS NOT TO BE VISIBLE FROM FRONT.

3. WATER HEATER, SHOWER HEADS & FAUCETS SHALL BE CERTIFIED BY

4. FIRST 5' OF HOT WATER OUTLET PIPE FROM WATER HEATER SHALL HAVE A R-4 MIN. IMNSULATION.

5. WATER HEATER SHALL HAVE R-12 EXTERNAL INSUALTION. 6. WATER HEATER SHALL BE PROVIDED WITH QA TEMPERATURE & PRESSURE RELIEF VALVE HAVING A FULL SIZED DRAIN OF GALVANIZED STEEL OR HARD DRAWN COPPER TO THE OUTSIDE OF THE BUILDING WITH THE END OF PIPE NOT MORE THAN 2' OR LESS THAN G"ABOVE GRADE, POINTING DOWNWARD, TERMINAL END BEING UNTHREADED. DISCHARGE FROM RELEIF VALVLE INTO WATER HEATER PAN SHALL BE PROHINITED. TEMPERATURE & PRESSURE VALVE SHALL NOT BE DIRECTLY CONNECTED TO ANY PART OF DRAINAGE SYSTEM.

REUIRMENTS OF CPC(1024 SQ.IN), (THRESHOLD 2"-9" DEEP) 8. FOR A WHIRLPOOL BATH A REMOVABLE PANEL OF SUFFICIENT DIMENSION SHALL BE PROVIDED TO ACCESS PUMP. THE CIRCULATION PUMP SHALL BE LOCATED ABOVE CROWN WEIR OF THE TRAP. THE PUMP AND CIRCUALTION PIPING SHALL BE SELF-DRAINING TO MINIMIZE WATER RETENTION. CPC TABLE 14-1 SUCTION FITTING SHALL COMPLY WITH LISTED

7. ALL SHOWER STALLS AND TUB ENCLOSURES SHALL CONFORM TO THE

9. A 12" X 12" ACCESS PANEL OR UTILITY SPACE TO BE ARRANGED WITHOUT OBSTRUCTION TO MAKE CONCEALED SLIP-JOINT CONNECTION ACCESSIBLE FOR FIELD INSPECTION & REPAIR. CPC 405.2. 10. ALL HOT WATER FAUCETS THAT HAVE MORE THAN TEN FEET OF PIPE BETWEEN THE FAUCETS AND THE HOT WATER HEATER SERVING SUCH FAUCET SHALL BE EQUIPPED WITH WATER HEATER RE-CIRCULATING SYSTEM(SEC.G(Q),ORD.3522)

STANDARDS. CPC 415.0-415.4 TUB TO COMPLY CPC.

II. MINIMUM PIPE INSTALLATION FOR RE-CIRCULATING OF HOT WATER SYSTEM R-4.

12. ANY WATER SYSTEM PROVIDED WITH A CHECK VALVE, BACKFLOW PREVENTED OR PRESSURE REGULATING DEVICE WHICH DOES NOT HAVE BYPASS FEATURE AT SOURCE SHALL BE PROVIDED WITH APPROVED, LISTED, ADEQUATEY SIZED PRESSURE RELIEF VALVE OR MEANS TO CONTROL EXPANSION. IN ADDITION TO REQUIRED PRESSURE, COMBINATION PRESSURE AND TEMPERATURE RELIEF VLAVLE, AN APPROVED, LISTED EXPANSION TANK OR OTHER DEVICE DESIGNED FOR INTERMITTENT OPERATION FOR THERMAL EXPANSION CONTROL SHALL BE INSTALLED WHEN ANY DEVICE IS INSTALLED THAT PREVENTS PRESSURE RELEIF HROUGH OUT THE BUILDING SUPPLY.

13. HOSE BIBS AND EXTERIOR LANDSCAPING WATER SUPPLY SHALL HAVE APPROVED BACKFLOW PREVENTION DEVICES AS PER CPC.602.

14. WATER CLOSETS SHALL HAVE A MAX. OF 0.125 GALLONS PER FLUSH AS REQUIRED BY STATE OF CALIFORNIA. PROVIDE A 30' CLEAR DIMENSION AT WATER CLOSET SPACE.

15. SHOWER-HEADS FLOW SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 40 PSI. LAVATORY, KITCHEN & OTHER SINK GAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 40 PSI.

IG. WATER PRESSURE IN BUILDING SHALL BE LIMITED TO 80 PSI OR LESS.

A PRESSURE REGULATOR IS REQUIRED AS PER CPC. 17. ALL SHOWER AND TUB COMBINATIONS SHALL BE PROVIDED WITH INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE

THERMOSTATIC MIXING VALVE TYPE. 18. GAS PIPING SHALL NOT BE INSTALLED IN OR ON THE GROUND UNDER ANY BUILDING OR STRUCTURE CBC 1211.3

19. HORIZONTAL DRAINAGE PIPING SHALL BE SLOPED AT A MIN. OF 14" PER FT. CBC 708. 20. WHERE WATER VAPOR IS PRESENT IN THE FUEL GAS SERVED, ACCESSIBLE DRIP PIPES SHALL BE PROVIDED AT POINTS WHERE

CONDENSATION WILL TEND TO COLLECT, CPC/311.18. 21. AN APPROVED AND ACCESSIBLE SHUTOOFF VALVE SHALL BE INSTALLED IN THE FUEL SUPPLY PIPING OUTSIDE OF EACH APPLIANCE AND AHEAD OF THE UNION CONNECTION THERETO, AND IN ADDITION TO ANY VALVE ON THE APPLIANCE ON THE APPLIANCE. SHUTOFF VALVES SHALL BE WITHIN 3 FT OF THE APPLIANCE THEY SERVE AND IN THE SAME ROOM

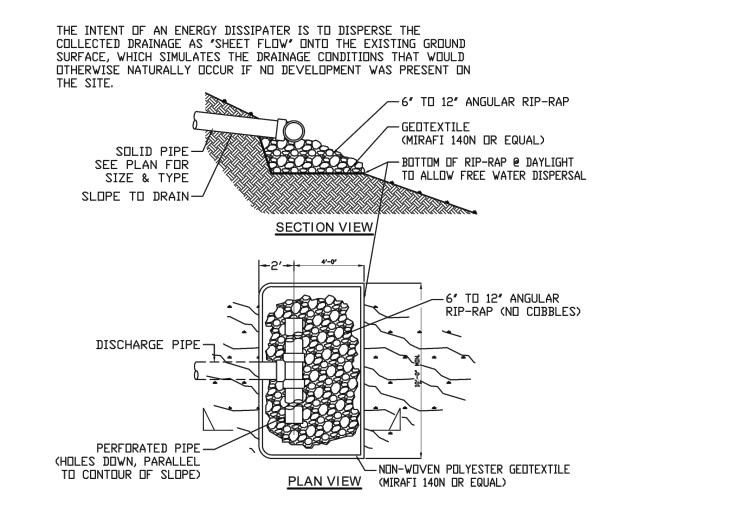
OR SPACE WHERE THE APPLIANCE IS LOCATED. CPC 1371.1 22. WHERE MAX. DEMAND EXCEEDS 250 CUBIC FT. PER HOUR AND THE MAX LENGTH OF PIPING BETWEEN THE METER AND THE MOST DISTANCE OUTLET IS NOT OVER 250 FT., THE SIZE EACH SECTION AND EACH OUTLET OF ANY SYSTEM OF GAS PIPING SHALL BE DETERMINED BY THE TABLE IN CPC APPENDIX B, CHAPTER 13.CPC 1317.1

23. SEPTIC SYSTEMS REQUIRE SERATE REVIEW AND PERMIT. 24. GAS LINE SHALL BE SIZED AND PROVIDED TO COUNTY/CITY PRIOR TO

25. IN ADDITION TO THE REQUIRED PRESSURE OR COMBINATION PRESSURE & TEMPATURE RELIEF VALVE, AN APPROVED, LISTED EXPANSION TANK OR OTHER DEVICE DESIGNED FOR INTERMITTED WHEN ANY DEVICE IS INSTALLED THAT PREVENTS PRESSURE RELIEF THROUGH BUILDING

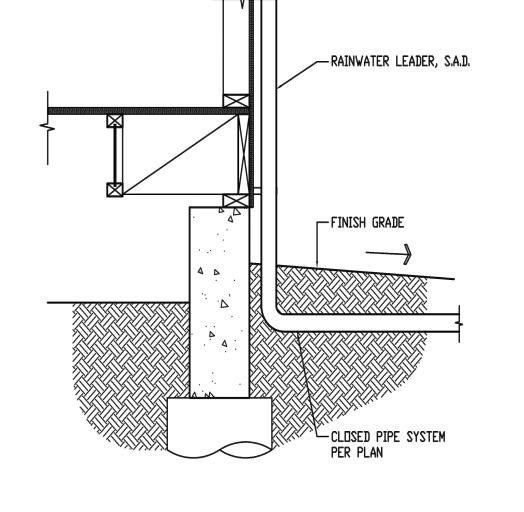
26. THE MIN.SIZE FOR SERVICE RISERS FOR STRUCTURES SHALL BE I" DIAMETER. MATERIALS SHALL BE SCHEDULE 80 PVC OR TYPE "L" COPPER

27. VENTING FOR ISLAND FIXTURES (VEGETABLE SINK) SHALL BE DESIGNED PER SECTION 909.0 OF THE 2007 CPC

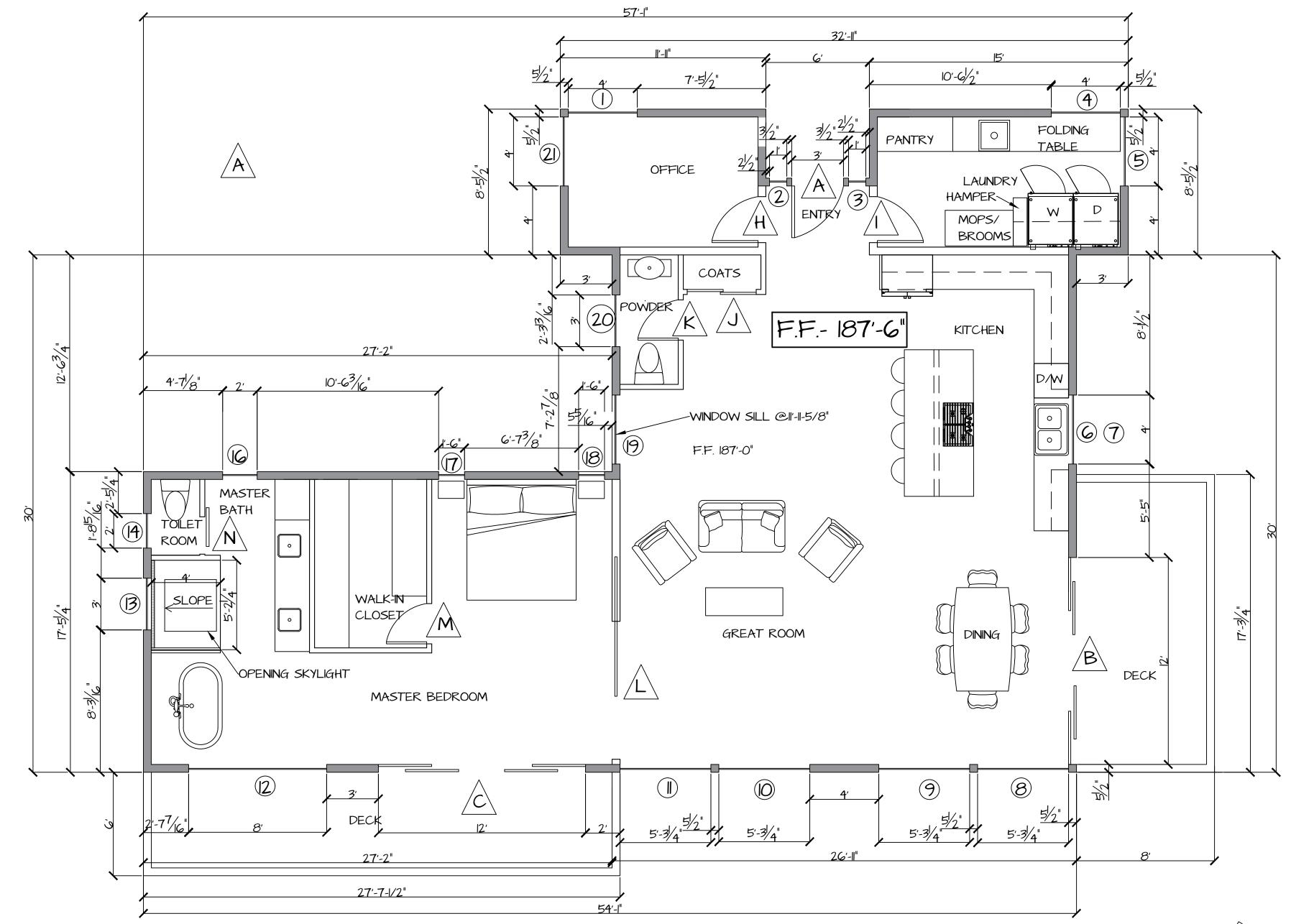


TYP. WATER ENERGY DISSIPATER DETAIL 1-A2

N.T.S.



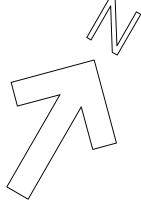
TYP. RAINWATER LEADER TO 4-6"SOLID PIPE



MAIN FLOOR PLAN

1/4"=1'-0"

1535 SF



61 Ellie Dr. Santa Rosa, CA 95403 530-308-8670 partolinidesigns@sbcglobal.net www.bartolinidesigns.com

REVISIONS

ATION OF ANY APPLICABLE CODES AND OR RICTIONS. SHOULD ANY CHANGE IN THE NGS OR SPECIFICATIONS BE REQUIRED, TH NTRACTOR SHALL NOTIFY THE DESIGNER AN

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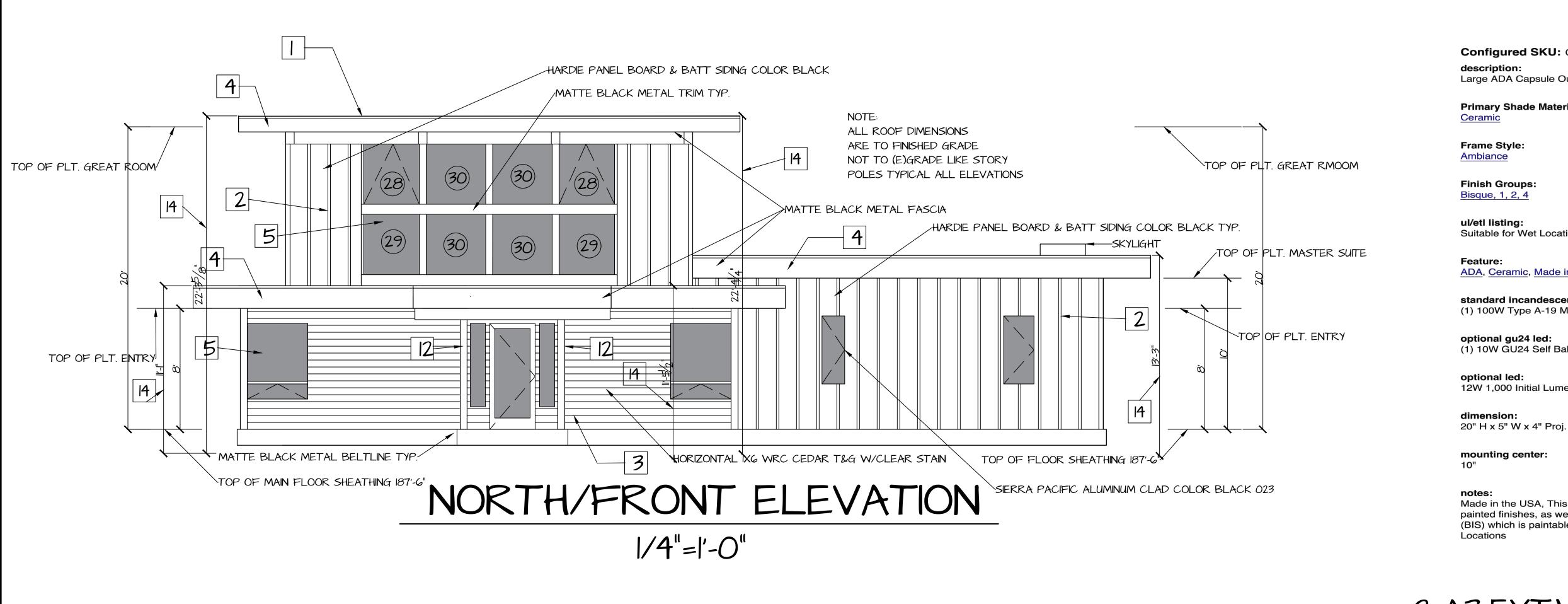
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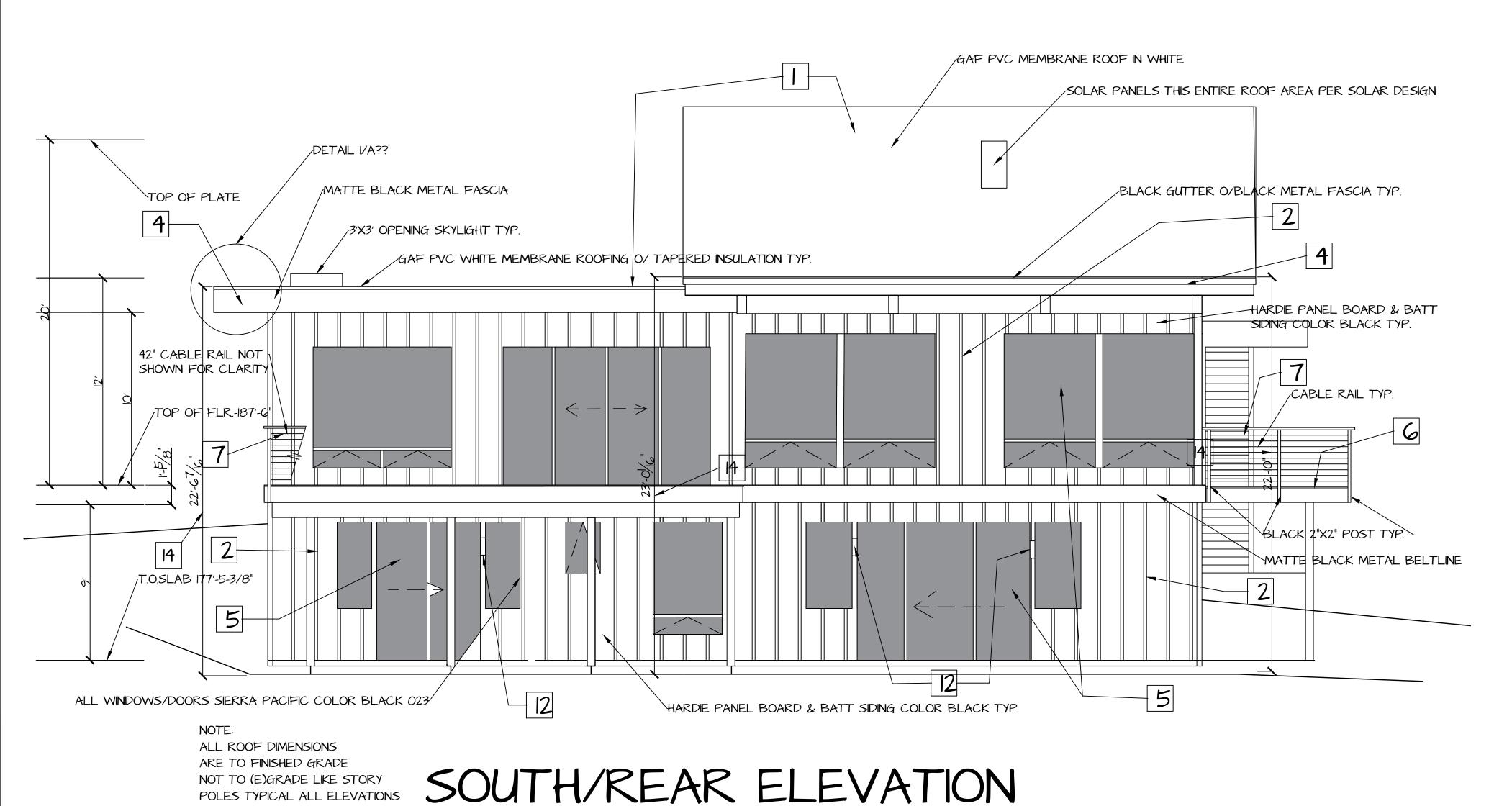
493

PROJECT

DATE: JAN. 13,2023

DRAWN BY: SCALE: AS SHOWN





1/4"=1'-0"

Configured SKU: CER-5630W-CRB-GU24

description: Large ADA Capsule Outdoor Wall Sconce

Primary Shade Material:

Frame Style:

GLAZES (GROUP 1): Carbon Matte Black (CRB)

Bisque, 1, 2, 4

5W Hinkley Lighting DSLG-40 Dark Sky GU24 LED

Suitable for Wet Locations

ADA, Ceramic, Made in USA, Outdoor

standard incandescent: (1) 100W Type A-19 Max

optional gu24 led: (1) 10W GU24 Self Ballast LED Max

12W 1,000 Initial Lumens

Made in the USA, This item is available in up to 40 hand-(BIS) which is paintable, Suitable for Outdoor Wet

2-A3 EXT.WALL SCONCES TYP.



SPECIFICATIONS

Stainless Steel - Brushed

CONSTRUCTION: Cast aluminum, cast brass or 316 Stainless Steel "Hockey Puck" style

LENS: Sand blasted tempered flat glass

LAMP SUPPLIED: 18w S8 #1141; 1200 hours average rating (25w max) **LAMP SUPPLIED -MR8 MODELS:** 20w MR8 FL; 2000 hours average rating (20w max) LAMP OPTIONS: We recommend 3w 50,000 hours average rating OMNI-3 LED (-LED3) or OMNI-3 Super Saver (-LED3SS) 10,000 hours average rating 20w Xenon (-X) or 20w Halogen (-H))

SOCKET: Single contact bayonet, brass nickel plated lamp socket screw shell (Ba15s); double contact bayonet base (Ba15d) for 120v; both with 200°C silicone lead wires **SOCKET -MR8 MODELS:** High temp ceramic GU5.3 bi-pin with 250°C silicone lead wires

WIRING: Black 5 foot 18/2 zip cord from base of fixture (12v only) For 25 foot 16/2 fixture lead wire add -25F to catalog number. 120v Standard wiring

CONNECTION: FA-05 Quick Connector (not supplied) from fixture to main cable (12/2, 10/2 or 8/2 only) 12v only

MOUNTING: Back plate and hardware supplied FINISH: Aluminum - Black texture polyester powder coat. Optional finishes available Brass - Unfinished brass. Optional finishes available

ORDERING INFORMATION CATALOG NO. DESCRIPTION

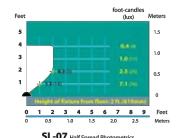
SHIP WEIGHT LAMP Cast Aluminum Surface Light 18w S8 #1141 SL-07-BRS Cast Brass Surface Light 18w S8 #1141 1.0 lbs. 316 Stainless Steel Surface Light 18w S8 #1141 SL-07-SS 1.0 lbs. SL-07-MR8-BLT Cast Aluminum Surface Light 20w MR8 FL SL-07-MR8-BRS Cast Brass Surface Light 20w MR8 FL 1.0 lbs. SL-07-MR8-SS 316 Stainless Steel Surface Light 20w MR8 FL

COLOR FLAT BLACK

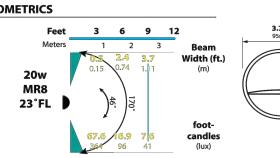
316 Steel Surface Light, PVC Post

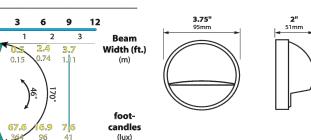
FOLLOWING -SP MODELS COME SUPPLIED WITH BLACK PVC TELESCOPIC POST FOR GROUND MOUNTING SL-07-SP-BLT Cast Aluminum Surface Light, PVC Post 18w S8 #1141 SL-07-SP-BRS Cast Brass Surface Light, PVC Post 18w S8 #1141 1.0 lbs. 316 Stainless Surface Light, PVC Post 18w S8 #1141 SL-07-SP-SS 1.0 lbs. Cast Aluminum Surface Light, PVC Post 20w MR8 FL 1.0 lbs. Cast Brass Surface Light, PVC Post 1.0 lbs.

LIGHT DISTRIBUTIONS AND PHOTOMETRICS



SL-07-SP-MR8-SS





20w MR8 FL

1.0 lbs.

I-A3 EXT. DRIVEWAY LIGHT TYP.

N.T.S.

Bartolini

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REVISIONS

CORDANCE WITH THE LATEST RULES, REGUL STRICTIONS, AND CODE REQUIREMENTS WITH

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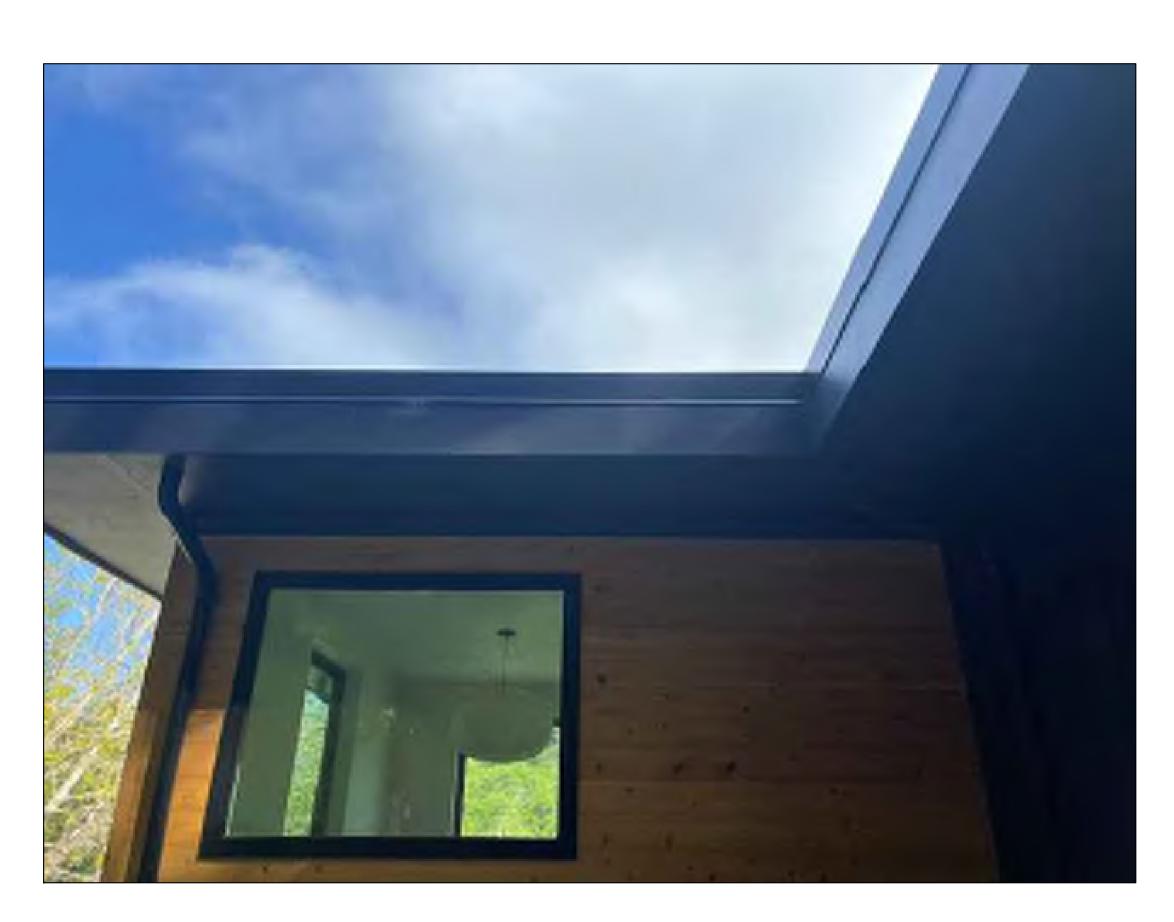
PROJECT

9493

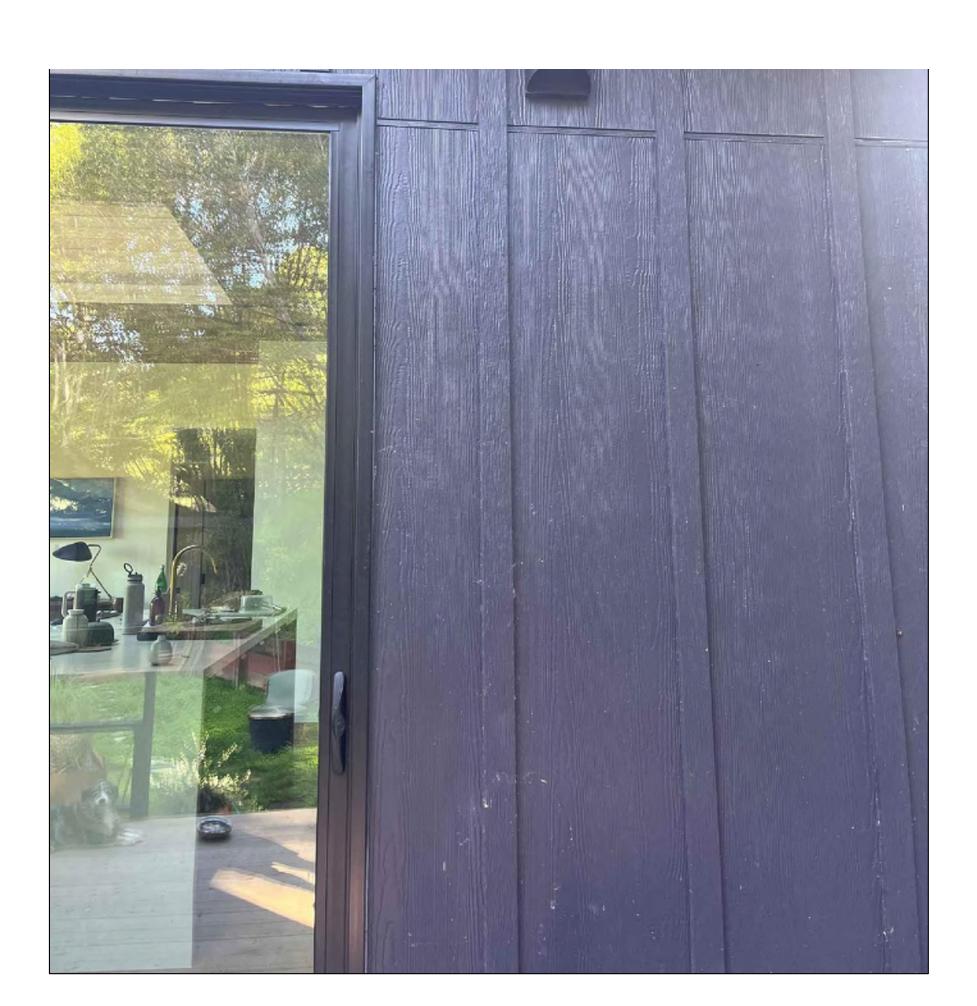
STIRLING WA INVERNESS, (APN#112-132-

DATE: JAN. 13,2023 DRAWN BY:

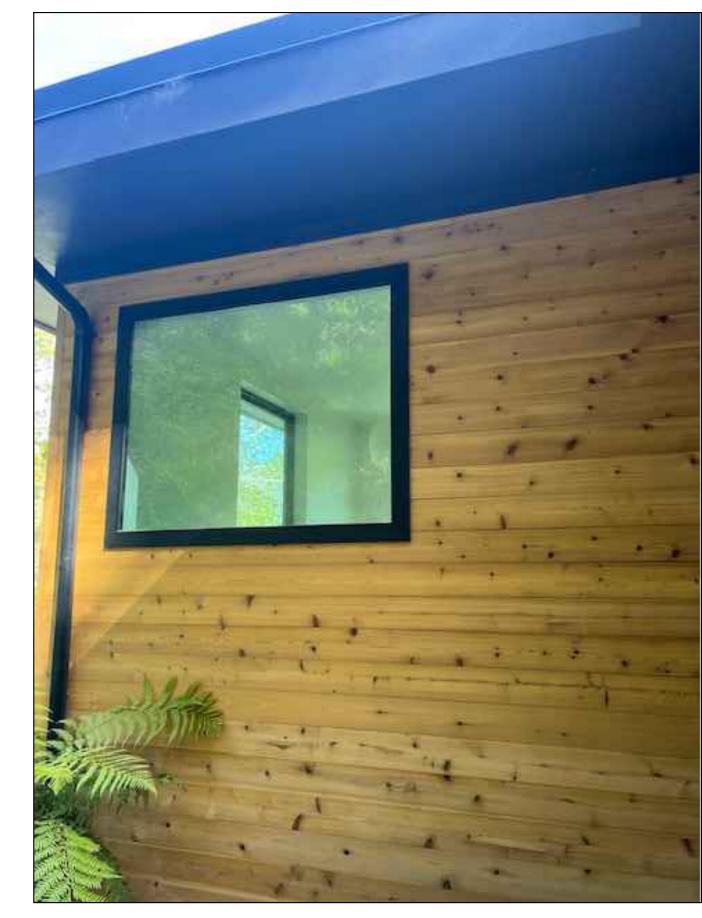
SCALE: AS SHOWN



WINDOWS/FASCIA/SOFFIT/DOWNSPOUTS



BLACK BOARD & BATT SIDING



NATURAL CEDAR SIDING

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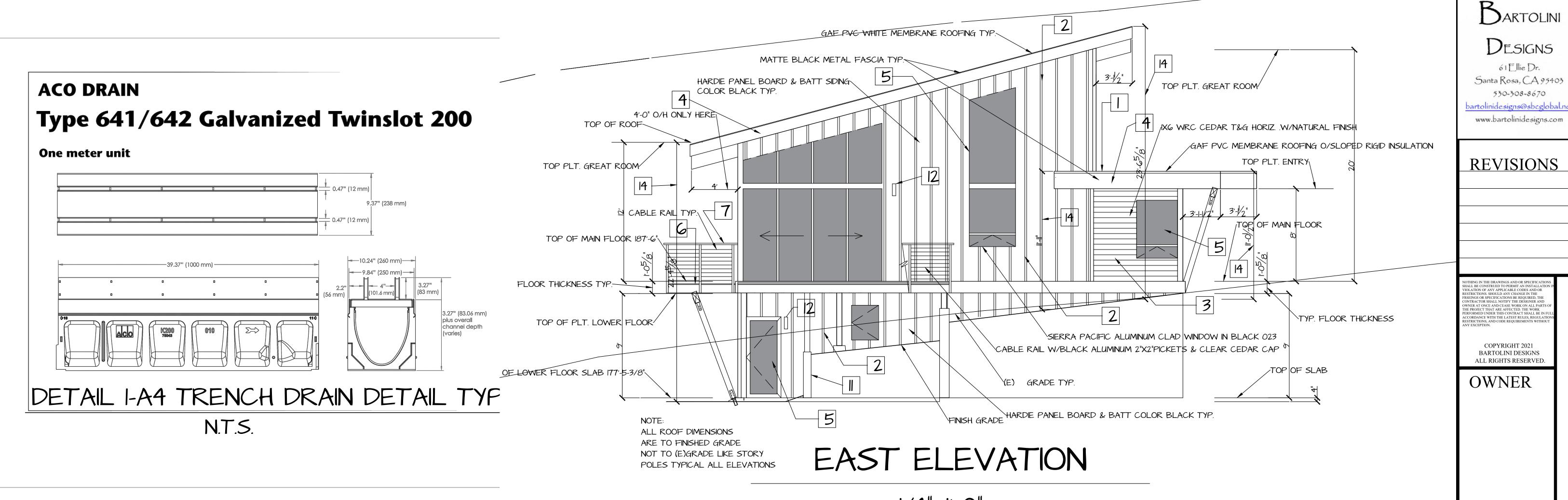
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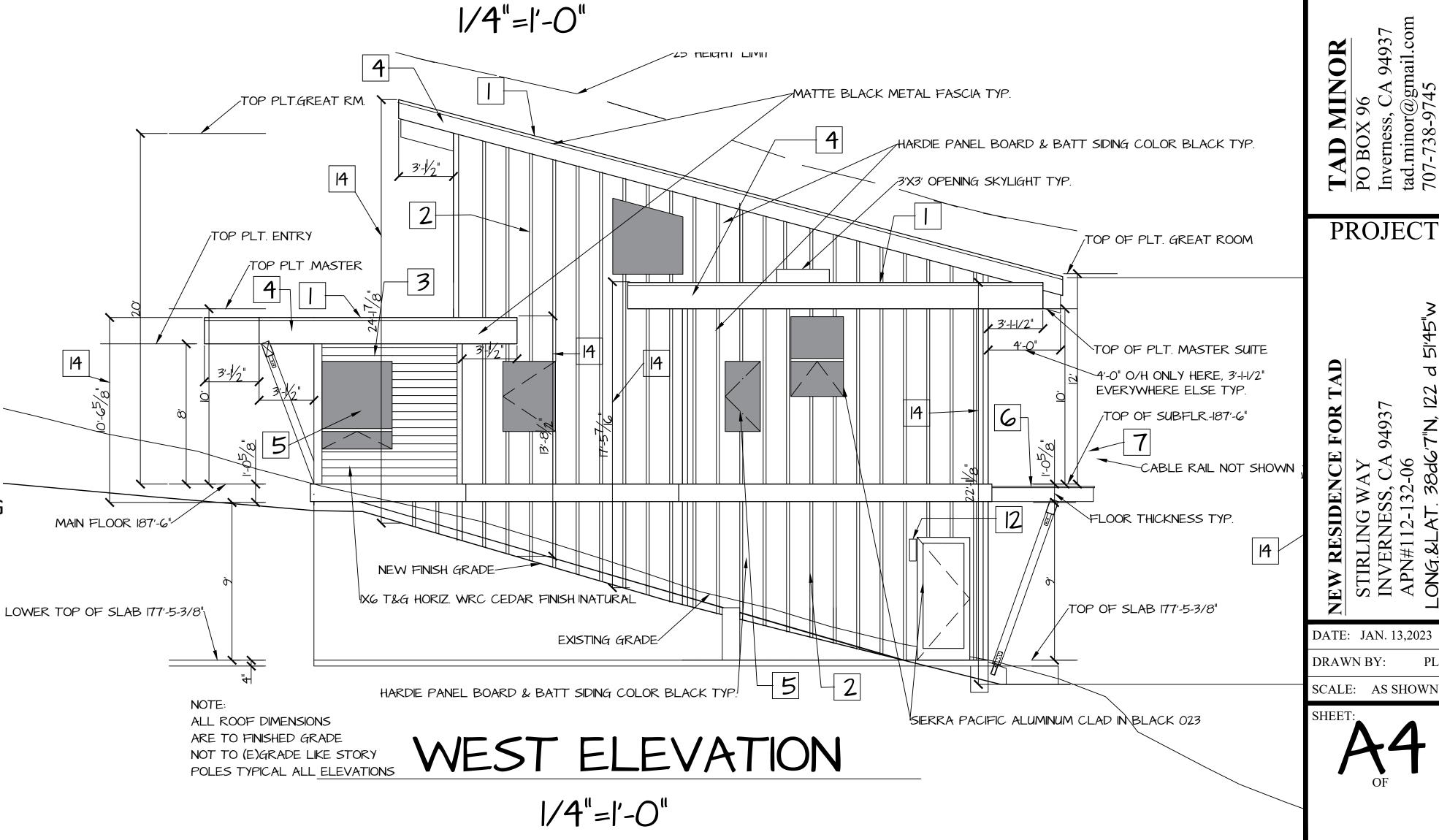
PROJECT

A3-A



ELEVATION MATERIAL NOTES

- CLASS A MEMBRANE ROOF O/1 HR. RATED SUB SHEET O/TAPERED INSULATION PER PLAN. **COLOR: WHITE**
- EXTERIOR SIDING TO BE HARDIE PANEL BOARD & BATT FIBER CEMENT SIDING. COLOR: BLACK WHERE SHOWN.
- EXTERIOR SIDING 1X6 T&G CLEAR CEDAR HORIZONTAL. COLOR: NATURAL
- 4. 5/4" X 11" HARDIE PANEL FASCIA. COLOR: BLACK W/ ALUMINUM METAL O/FASCIA. COLOR: BLACK.
- WINDOWS & DOORS SIERRA PACIFIC ALUMINUM CLAD. COLOR: BLACK
- 6. DECKING TO BE 5/4" IPE. COLOR: NATURAL. STAINED NATURAL W/IPE OIL PLUS BY DECK WISE
- DECK RAILING TO BE STAINLESS CABLE RAIL W/BLACK ALUMINUM POST & NATURAL IPE CAP RAIL.
- 8. RETAINING WALLS AT DRIVEWAY AND PARKING AREA TO BE STEEL I-BEAMS AND PTDF LAGGING LEFT TO AGE NATURALLY.
- 9. DRIVEWAY TO BE 2" BLACK ASPHALT O/4" ROAD VASE COMPACTED PER SOIL REPORT.
- 10. PARKING AREA PAVERS TO BE BELGARD URBANA PERMEABLE COLOR: VICTORIAN,
- 11. BLOCK LANDSCAPE WALLS TO BE ALLEN BLOCK BY SHAMROCK BUILDING SUPPLY A.B. EUROPA STYLE, COLOR: BROWN/CHARCOAL BLEND. MAX. HEIGHT: 4'-0" TYP.
- 12. EXTERIOR WALL SCONCES BY JUSTICE DESIGN GROUP, COLOR: BLACK
- 13. EXTERIOR DRIVEWAY LIGHTS BY FOCUS INDUSTRIES HOCKEY PUCK STYLE, COLOR: BLACK
- 14. DIMENSION FROM TOP OF ROOF TO FINISHED GRADE



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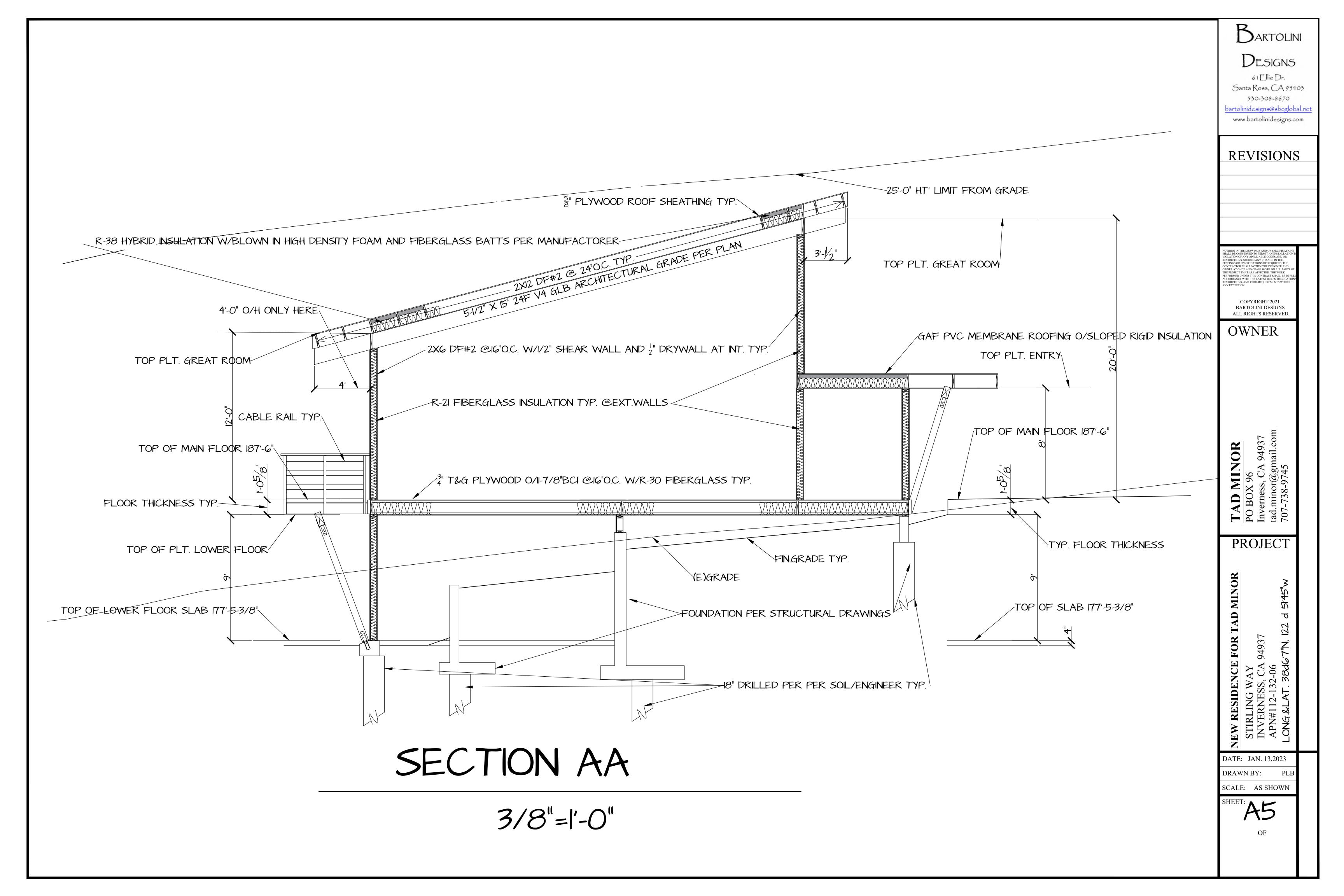
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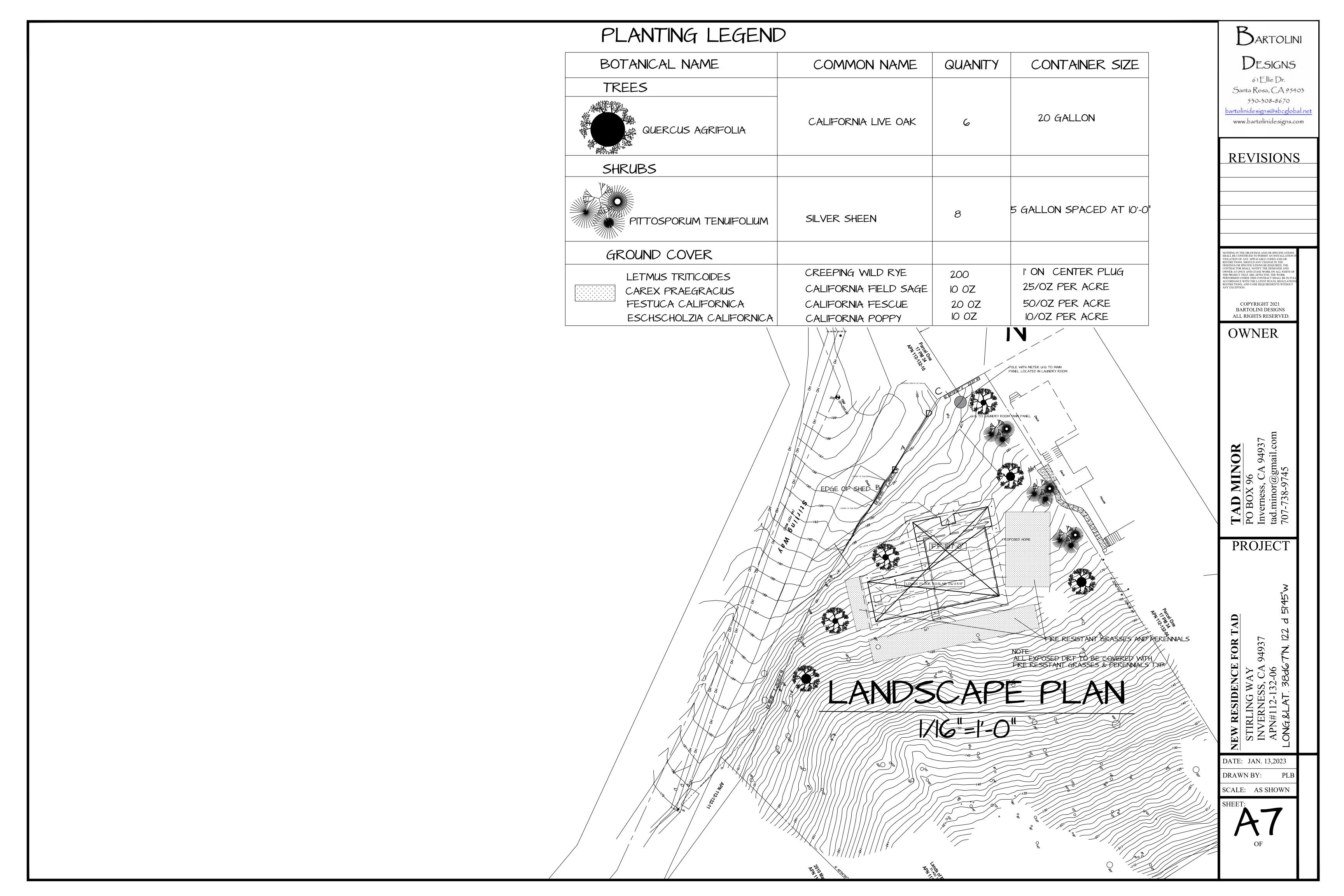
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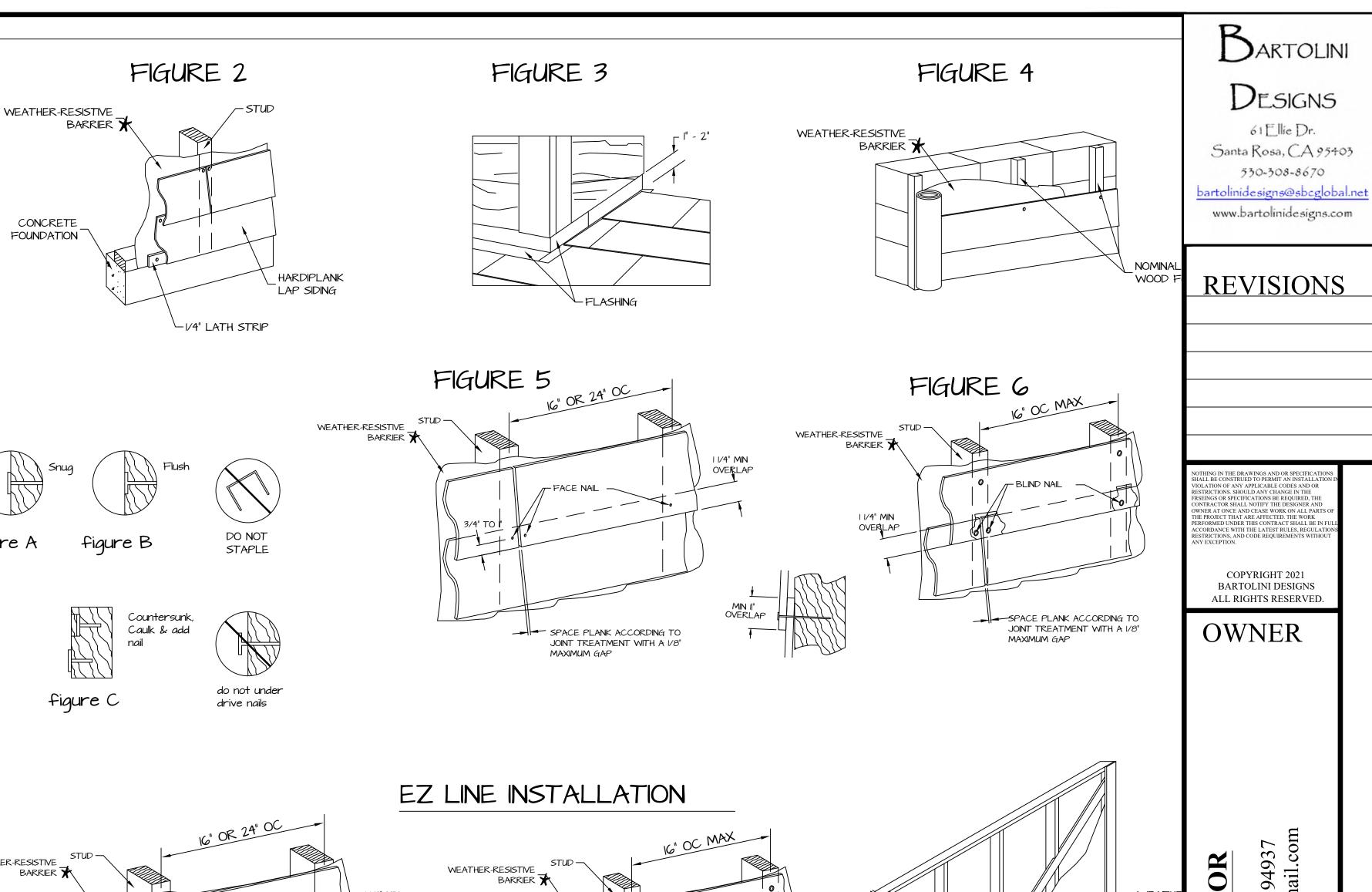
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HARDI PLANK ® FOR STRAIGHT-EDGE SHINGLE PLANK Installation LAP SIDING INSTALLATION INSTRUCTIONS SPACING STRAIGHT EDGE SHINGLE PLANK RUSTIC CEDAR @ SELECT CEDARMILL @ SMOOTH @ COLONIAL SMOOTH @ COLONIAL ROUGHSAWN © BEADED CEDARMILL BEADED SMOOTH 1) Install 1/4" lath strip to ensure consistent plank angle. STRAIGHT-EDGE SHINGLE PLANK © 2) Begin first course at end of far left wall and nail to stud. 3) Second course begins at the next stud (16" or 24") to the right IMPORTANT: FAILURE TO INSTALL AND FINISH HARDIPLANK IN ACCORDANCE 4) Third course begins by moving to the next right stud (16" or 24") WITH APPLICABLE BUILDING CODE COMPLIANCE REPORTS AND JAMES HARDIE'S from secound course. WRITTEN APPLICATION INSTRUCTIONS, MAY AFFECT SYSTEM PERFORMANCE. 4) Fourth course begins by moving to the next right stud (16" or 24") VIOLATE LOCAL BUILDING CODES REQUIREMENTS, AND VOID THE PRODUCT from third course. CONCRETE ONLY WARRANTY. 6) Fifth course moves back to first stud (#2) and the sequence continues. FOUNDATION HANDLING & STORAGE: COVERAGE CHART/ESTIMATING GUIDE Store flat and keep dry prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. 1. Figures shown are in pieces - all 12' long. 2. 5% cutting and fitting waste factor included. CUTTING OPTIONS: 3. Computations based on minimum overlap of 1-1/4". Circular saw blade with carbide-tipped teeth 4. Actual usage subject to variables such as building design - Electric or pneumatic hand shear - Carbide score and snap knife - Pneumatic shear and installers. JH recommends Makita #5044KB 4" or #5057KB 7-1/4" saw with dust collection. Call 800-4MAKITA. Hitachi® HARDIBLADE w/® PCD Diamond Teeth. Call Hitachi at 800-54@1666 for nearest dealer. SNAPPER SHEAR electric, pneumatic, or hand shear. Call 800-297-7487 for tool information. COVERAGE AREA HARDIPLANK SIDING WIDTH LESS OPENINGS Always wear safety glasses and dust protection when operating power tools. 5|" | 6|" | 7|" | 7\" | 8" | 8|" | 9|" | 9\" | 12" For more information on avoiding inhalation refer to the MATERIAL SAFETY DATA SHEET exposure) (4") (5") (6") (6|") (6[") (7") (8") (8|") (10[")available wherever James Hardie Fiber-cement products are sold. 1 **S**Q 100 sf FRAMING REQUIREMENTS: 2 SQ 3 SQ 200 sf Hardiplank lap siding can be installed over braced wood or steel studs spaced a maximum of 24" o.c. or 300 sf directly to minimum 7/16" thick OSB sheathing. Hardiplank lap siding can also be installed over foam 4 SQ 5 SQ 400 sf 500 sf the finished application. A weather-resistive barrier is required *. Install Hardiplank siding with joints 6 SQ 7 SQ 600 sf butted in moderate contact. Optionally, install the lap siding with a maximum 1/8" gap and caulk the 700 sf 8 SQ 9 SQ 10 SQ 11 SQ 12 SQ 13 SQ joint ** (see detail 1). 800 sf The first course of any wall should be installed over a 1/4" lath strip to ensure a consistent plank angle (see figure 1). 900 sf 1000 sf GFor application over foam insulation, the length of the specified fastener shall be increased by the thickness 100 sf of the foam insulation. 1200 sf 1300 sf ★Use a weather-resistive barrier in accordance with: BOCA National Building Code Section 1403.3, SBCCI 14 SQ 15 SQ 1400 sf Standard Building Code Section 2303.3; ICBO Uniform Building Code Section 1402.1; or CABO 1500 sf One-and-Two Family Dwelling Code Section 703.2.1. 16 SQ 1600 sf 17 SQ 1700 sf NOTE: Some Building Codes exempt the use of weather-resistive barriers over "water-repellent panel sheathing" 18 SQ 19 SQ 1800 sf or exterior panels classified as "weather-resistive barriers". James Hardie recommends the use of "building paper type" 1900 sf weather-resistive barriers with all siding products. James Hardie will assume no responsibility for water infiltration 20 SQ 21 SQ 2000 sf within the wall. 2100 sf 22 SQ 2200 sf WARNING: AVOID BREATHING SILICA DUST 23 SQ 2300 sf 24 SQ 25 SQ 26 SQ 27 SQ Product contains Silica. Inhalation of respirable silica dust can cause silicosis a potentially disabling lung disease, 2400 sf and is known to the State of California to cause lung cancer. When drilling, cutting, or abrading product during installation 2500 sf or handling. (1) Work outdoors where 2600 sf feasible, otherwise use mechanical ventilation, (2) Wear a dust mask or, if dust may exceed PEL, use NIOSH approved 2700 sf respirator, (3) Warn others in area. For further information, refer to material safety data sheet or consult employer. 2800 sf 28 SQ FAILURE TO ADHERE TO WARNINGS, MSDS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO 29 SQ 2900 sf SERIOUS PERSONAL INJURY. 3000 sf 30 SQ 788 630 525 504 467 450 394 382 293 GRADE CLEARANCE Install Hardiplank 🛮 🛇 siding in compliance with local Building Code requirements for clearance between the bottom FINISHING SIDING: edge of panel/framing and the adjacent finished grade. Dents, chips and cracks can be filled with a cementitious patching compound. ROOF CLEARANCE A high quality, paintable caulk is recommended. For best results use caulks that comply with At the juncture of the roof and vertical surfaces, flashing and counterflashing shall be provided per the roofing either ASTM C 834 or ASTM C 920. Caulking should be applied in accordance with caulking manufacturer's instructions. Provide a 1" - 2" clearance between the roofing and bottom edge of siding or as manufacturers written instructions. (Leave 1/8" gap at trim for caulk. Caulking at butt joints is optional.) recommended by the roofing manufacturer. CONCRETE CONSTRUCTION James Hardie products must be painted. For best results install Hardiplank siding with our WEATHER-RESISTIVE exclusive Prime Plus [™] factory priming system and a 100 % acrylic topcoat (si) * If our Prime Plus Hardiplank siding can be installed directly to masonry block. Hardiplank siding can also be installed to concrete factory priming is not being used, Hardie recommends the application of an alkali-resistent BARRIER T construction, when the wall is furred out with wood framing or minimum No. 20 gauge steel framing anchored to primer along with 100 % acrylic topcoat (s). (For paint manufacturer's paint the wall. Framing can be spaced up to 24" OC. Consult specifications, refer to JH Technical Bulletin No. S-100.) National Evaluation Service report NER-405 for recoanized applications to masonry block and wood or metal *Note: Please refer to paint manufacturers' specifications for application rates. Framing. A weather-resistive barrier * is recommended between the Framing and the siding. FACE NAIL HARDI PLANK lap siding is recognized as an exterior wall cladding in National Evaluation Report No. NER405: City of Los Ángeles, Research Report No. 24862: Dade County, Florida, Corrosion Resistant Nails (galvanized or stainless steel) Acceptance No. 99-0223.07, US Dept. of HUD Materials Release 1263a, California DSA PS-019 • 6d (0.118" shank x 0.267" HD x 2" long) and City of New York MEA 223-93-M. These documents should also be consulted for additional Siding nail (0.089" shank x 0.221" HD x 2" long) ** information concerning the suitability of this product for specific applications. Siding nail (0.091" shank x 0.221" HD x 1 1/2" long) • ET & F pin (0.100" shank x 0.25" HD x 1 1/2" long)** Corrosion Resistant Screws Corporate Headquarters • Ribbed Bugle-head or equivalent (No. 8-18 x 0.323" HD x 1 5/8" 26300 La Alameda, Suite 250 long) Screws must penetrate 1/4" or 3 threads into metal framing. Mission Viejo, CA 92691 © 2000 James Hardie Building Products BLIND NAIL Printed in USA Corrosion Resistant Nails (galvanized or stainless steel) For Technical Assistance, MSDS, Siding nail (0.089" shank x 0.221" HD x 2" long) ** and Product Information • Ilga. roofing nail (0.121" shank x 0.371" HD x 1 1/4" L) FIGURE Call 1-800-9HARDIE • ET & F PanelfastTM (0.100" shank x 0.25" HD x 1 1/2" long)** (1-800-942-7343) Corrosion Resistant Screws www.jameshardie.com • Ribbed Bugle-head or equivalent (No. 8-18 x 0.375" HD x 1 1/4" long) Screws must penetrate 1/4" or 3 threads into metal framing. # For face nail application of 9 1/2" wide or less siding to OSB, fasteners are spaced a maximum of 12" o.c. DOUBLE WALL SINGLE WALL ** The use of a siding nail or roofing nail may not be applicable to all installations where greater wind loads or higher exposure categories of wind resistance is required by the Local Building Code. Consult the applicable CONSTRUCTION CONSTRUCTION Building Code Compliance Report. -LET-IN BRACING WEATHER-RESISTIVE
BARRIER PNEUMATIC FASTENING: 16" OR 24" Hardiplank siding can be hand nailed or fastened with the use of a pneumatic tool. Set your air pressure so that ON CENTER the fastener is driven snug with the siding surface. RECOMMENDED: PLYWOOD OR OSB Use a flush mount attachment on pneumatic tool. This will help control the depth that the nail is driven. This will be especially helpful when more than one pneumatic tool is driven off the same compressor. SHEATHING FASTENING REQUIREMENTS: • Drive fasteners perpendicular to siding and framing. • Fastener heads should fit snug against siding (no air space). (Fig. A & B) • Do not over-drive nail heads or drive nails at an angle. • If nail is countersunk, caulk nail hole and add a nail. (Fig. C) Fasteners must be corrosion resistant, galvanized or stainless steel. Electro-galvanized nails are acceptable for use with James Hardie Siding Products, but may exhibit premature corrosion. James Hardie recommends the use of quality, hot-dipped galvanized nails. (James Hardie is not responsible for the corrosion resistance of fasteners.) For EZ LINE ™ Installation The EZ Line assists in a H/4" overlap alignment, and with placing the nail at the required placement. EASY 1-2-3 INSTALLATION 1) Install 1/4" lath strip to ensure consistent plank angle. 2) Fasten Hardiplank siding with EZ Line over 1/4" lath strip. 3) Overlap second piece of Hardiplank siding with EZ Line 1-1/4", utilizing EZ Line alignment aid. WEATHER-RESISTIVE FASTENING AND SPACING HARDIPLANK SIDING WITH EZ LINE ** MODERATE CONTACT, OR MAXIMUM 1/8" GAP Nail 3/4" - 1" up from bottom of plank. Fasten 16" o.c. Moderate contact or maximum 1/8" -FASTENER gap and caulk the joint BLIND NAIL: (All Lap Products) Nail I" down from top of plank. Do not use JH logo for nailing guide. Fasten 16" - 24" o.c. 1/4" THICK Moderate contact or maximum 1/8" gap and caulk the joint. LATH STRIP LEAVE 1/8" GAP BETWEEN PLANK & TRIM, THEN CAULK



OVERLAP

MAXIMUM GAP

JOINT TREATMENT WITH A 1/8"

6

1 1/4" MIN

OVERLAP

STRAIGHT-EDGE SHINGLE

PLANK INSTALLATION

SPACE PLANK ACCORDING TO

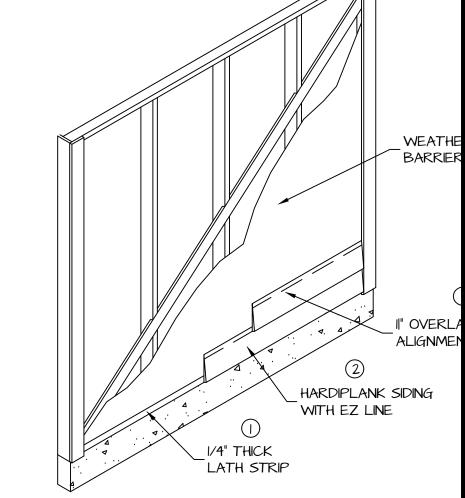
MAXIMUM GAP

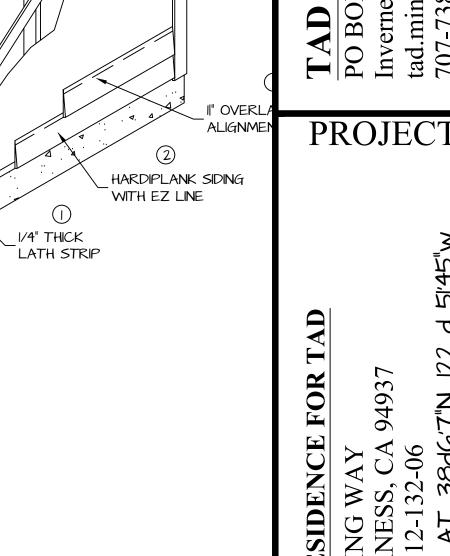
JOINT TREATMENT WITH A 1/8"

WEATHER-RESISTIVE BARRIER

1/4" THICK

LATH STRIP

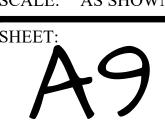




DATE: JAN. 13,2023

DRAWN BY: PLB

SCALE: AS SHOWN



PURPOSE

THE PURPOSE OF THIS PLAN IS TO STABILIZE THE SITE TO PREVENT EROSION OF GRADED AREAS AND TO PREVENT SEDIMENTATION FROM LEAVING THE CONSTRUCTION AREA AND AFFECTING NEIGHBORING SITES, NATURAL AREAS, PUBLIC FACILITIES OR ANY OTHER AREA THAT MIGHT BE AFFECTED BY SEDIMENTATION. ALL MEASURES SHOWN ON THIS PLAN SHOULD BE CONSIDERED THE MINIMUM REQUIREMENTS NECESSARY, SHOULD FIELD CONDITIONS DICTATE ADDITIONAL MEASURES, SUCH MEASURES SHALL BE PER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL AND THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION, AGNEW CIVIL ENGINEERING SHOULD BE NOTIFIED IMMEDIATELY SHOULD CONDITIONS CHANGE.

EROSION CONTROL NOTES

- 1. IT SHALL BE THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPÉRATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THIS
- THE INTENTION OF THIS PLAN IS FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY, ALL EROSION CONTROL MEASURES SHALL CONFORM TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL. THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION, AND THE LOCAL GOVERNING AGENCY FOR THIS PROJEC
- OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT Control Measures prior to. During. And after storm events. Person in Charge of MAINTAINING EROSION CONTROL MEASURES SHOULD WATCH LOCAL WEATHER REPORTS AND ACT APPROPRIATELY TO MAKE SURE ALL NECESSARY MEASURES ARE IN PLACE
- 4. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE AT ALL 'TIMES.
- DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND
- 6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED, COMPLIANCE WITH FEDERAL STATE AND LOCAL LAWS CONCERNING POLLUTION SHALL BE MAINTAINED AT ALL 'TIMES.
- CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.
- 8. ALL MATERIALS NECESSARY FOR THE APPROVED EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 15TH
- EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON, OR FROM OCTOBER 15TH 'THROUGH APRIL 15TH, WHICHEVER IS LONGER.
- 10. IN THE EVENT OF RAIN, ALL GRADING WORK IS TO CEASE IMMEDIATELY AND THE SITE IS TO BE SEALED IN ACCORDANCE WITH THE APPROVED EROSION CONTROL MEASURES AND
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND REPAIRING EROSION CONTROL SYSTEMS AFTER EACH STORM
- 12. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY COUNTY'S ENGINEERING
- 13. MEASURES SHALL BE TAKEN TO COLLECT OR CLEAN ANY ACCUMULATION OR DEPOSIT OF DIRT, MUD, SAND, ROCKS, GRAVEL OR DEBRIS ON THE SURFACE OF ANY STREET, ALLEY OR PUBLIC PLACE OR IN ANY PUBLIC STORM DRAIN SYSTEMS. THE REMOVAL OF AFORESAID SHALL BE DONE BY STREET SWEEPING OR HAND SWEEPING. WATER SHALL NOT BE USED TO WASH SEDIMENTS INTO PUBLIC OR PRIVATE DRAINAGE FACILITIES.
- 14. EROSION CONTROL MEASURES SHALL BE ON-SITE FROM SEPTEMBER 15TH THRU APRIL 1511-I.
- 15. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON OR FROM OCTOBER 15 THRU APRIL 15, WHICHEVER IS GREATER.

PERIODIC MAINTENANCE

APPROVED EROSION CONTROL PLAN.

MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:

- DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION SHALL BE REPAIRED AT THE END OF
- 2. SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED.
- SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND
- 4. SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1' FOOT.
- SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
- GRAVEL BAG INLET PROTECTION SHALL BE CLEANED OUT WHENEVER SEDIMENT DEPTH IS ONE
- 8. STRAW ROLLS SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHED HALF THE HEIGHT OF THE ROLL
- 9. SILT FENCE SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHES ONE FOOT IN HEIGHT.
- 10. CONSTRUCTION ENTRANCE SHALL BE REGRAVELED AS NECESSARY FOLLOWING SILT/SOIL
- 11. ANY OTHER EROSION CONTROL MEASURES SHOULD BE CHECKED AT REGULAR INTERVALS TO

EROSION CONTROL MEASURES

- THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 15TH TO APRIL 15. EROSION CONTROL FACILITIES SHALL BE IN PLACE PRIOR TO OCTOBER 15TH OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES.
- SITE CONDITIONS AT TIME OF PLACEMENT OF EROSION CONTROL MEASURES WILL VARY APPROPRIATE ACTION INCLUDING TEMPORARY SWALES, INLETS, HYDROSEEDING, STRAW BALES, ROCK SACKS, ETC. SHALL BE TAKEN TO PREVENT EROSION AND SEDIMENTATION FROM LEAVING SITE. EROSION CONTROL MEASURES SHALL BE ADJUSTED AS THE CONDITIONS CHANGE AND THE NEED OF CONSTRUCTION SHIFT.
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCES. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE GOVERNING AGENCY.
- ALL EXPOSED SLOPES THAT ARE NOT VEGETATED SHALL BE HYDROSEEDED, IF HYDROSEEDING S NOT USED OR IS NOT EFFECTIVE BY OCTOBER 15, THEN OTHER IMMEDIATE METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE-STEP APPLICATION OF 1) SEED, MULCH, FERTILIZER 2) BLOWN STRAW 3) TACKIFIER AND MULCH. HYDROSEEDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 20 "EROSION CONTROL AND HIGHWAY PLANTING" OF THE STANDARD SPECIFICATION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AS LAST REVISED. REFER TO THE EROSION CONTROL SECTION OF THE GRADING SPECIFICATIONS THAT ARE A PART OF THIS PLAN SET FOR
- INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM, INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT. MINIMUM INLET PROTECTION SHALL CONSIST OF A ROCK SACKS OR AS SHOWN ON THIS PLAN
- THIS EROSION AND SEDIMENT CONTROL 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 IN THE FIELD. A REPRESENTATIVE OF AGNEW CIVIL ENGINEERING SHALL PERFORM A FIELD REVIEW AND MAKE RECOMMENDATIONS AS NEEDED. CONTRACTOR IS RESPONSIBLE TO NOTIFY AGNEW CIVIL ENGINEERING AND THE GOVERNING AGENCY OF ANY CHANGES.
- THE EROSION CONTROL MEASURES SHALL CONFORM TO THE COUNTY STANDARDS AND THE APPROVAL OF THE COUNTY'S ENGINEERING DEPARTMENT.
- STRAW ROLLS SHALL BE PLACED AT THE TOP OF SLOPES AND ALONG THE DOWNSLOPE PERIMETER OF THE PROJECT. THEY SHALL BE PLACED AT 25 FOOT INTERVALS ON GRADED SLOPES, PLACEMENT SHALL RUN WITH THE CONTOURS AND ROLLS SHALL BE TIGHTLY ENDBUTTED. CONTRACTOR SHALL REFER TO MANUFACTURES SPECIFICATIONS FOR PLACEMENT

REFERENCES

- CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND
- CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK



Maintenance and Parking

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

Materials & Waste Management

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

Hazardous Materials

14 days.

Non-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

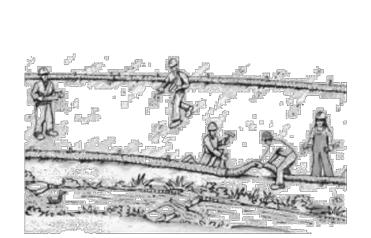
- ☐ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ☐ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ☐ Clean up spills or leaks immediately and dispose 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

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.

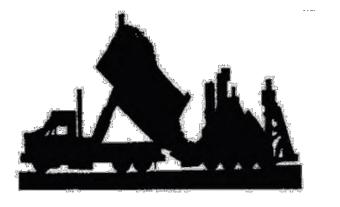


- ☐ Schedule grading and excavation work during dry weather.
- ☐ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- □ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.
- ☐ 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. or odor.
- Abandoned underground tanks.
- Abandoned wells - Buried barrels, debris, or trash.

Paving/Asphalt Work



- Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- ☐ Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc. ☐ Collect and recycle or appropriately
- dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters. Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

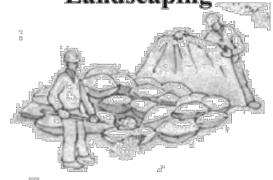
- ☐ Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ☐ Shovel, abosorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ☐ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar

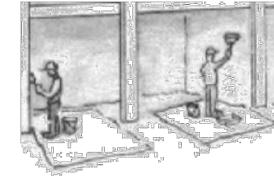


- ☐ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- ☐ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as
- 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.

Landscaping



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



Painting & Paint Remova

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 brus 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 t

the extent possible and clean with thim

- or solvent in a proper container. Filter a reuse thinners and solvents. Dispose of excess liquids as hazardous waste. Paint chips and dust from non-hazardous
- dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash. Chemical paint stripping residue and chi
- 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 stat certified contractor.

Dewatering



- Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. Whe possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call yo 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 gutte 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 mu be tested. Pumped groundwater may nee to be collected and hauled off-site for treatment and proper disposal.

ATION OF ANY APPLICABLE CODES AND OR RICTIONS. SHOULD ANY CHANGE IN THE NGS OR SPECIFICATIONS BE REQUIRED, TH

DESIGNS

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REVISIONS

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OWNER

19 45

949 V RESIDENCE I IRLING WAY VERNESS, CA 9 N#112-132-06

DATE: JAN. 13,2023

DRAWN BY: SCALE: AS SHOWN



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



California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

RESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

raceways and related components that are planned to be installed underground, enclosed, inaccessible or in

concealed areas and spaces shall be installed at the time of original construction.

installed in close proximity to the location or the proposed location of the EV space at the time of original **CHAPTER 3** construction in accordance with the California Electrical Code. 4.106.4.2 New multifamily dwellings, hotels and motels and new residential parking facilities. **GREEN BUILDING** 4.304 OUTDOOR WATER USE When parking is provided, parking spaces for new multifamily dwellings, hotels and motels shall meet the 4.106.4.2.4 Identification 4.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS. Residential developments shall comply with requirements of Sections 4,106.4.2.1 and 4,106.4.2.2. Calculations for spaces shall be rounded up to the nearest **SECTION 301 GENERAL** The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water whole number. A parking space served by electric vehicle supply equipment or designed as a future EV charging future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. Efficient Landscape Ordinance (MWELO), whichever is more stringent. space shall count as at least one standard automobile parking space only for the purpose of complying with any 301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in applicable minimum parking space requirements established by a local jurisdiction. See Vehicle Code Section 22511.2 4.106.4.2.5 Electric Vehicle Ready Space Signage. the application checklists contained in this code. Voluntary green building measures are also included in the Electric vehicle ready spaces shall be identified by signage or pavement markings, in compliance with Caltrans application checklists and may be included in the design and construction of structures covered by this code, Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code Regulations, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7. 4.106.4.2.1Multifamily development projects with less than 20 dwelling units; and hotels and motels with less Title 23, Chapter 2.7, Division 2. MWELO and supporting documents, including water budget calculator, are 301.1.1 Additions and alterations. [HCD] The mandatory provisions of Chapter 4 shall be applied to available at: https://www.water.ca.gov/ The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to 4.106.4.3 Electric vehicle charging for additions and alterations of parking facilities serving existing additions or alterations of existing residential buildings where the addition or alteration increases the building's conditioned area, volume, or size. The requirements shall apply only to and/or within the DIVISION 4.4 MATERIAL CONSERVATION AND RESOURCE When new parking facilities are added, or electrical systems or lighting of existing parking facilities are added or specific area of the addition or alteration. 1.EV Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types altered and the work requires a building permit, ten (10) percent of the total number of parking spaces added or EFFICIENCY of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 altered shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 EVSE. The mandatory provision of Section 4.106.4.2 may apply to additions or alterations of existing parking EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical 4.406 ENHANCED DURABILITY AND REDUCED MAINTENANCE facilities or the addition of new parking facilities serving existing multifamily buildings. See Section system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all 4.106.4.3 for application. 4.406.1 RODENT PROOFING. Annular spaces around pipes, electric cables, conduits or other openings in EVs at all required EV spaces at a minimum of 40 amperes. sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such 1. Construction documents are intended to demonstrate the project's capability and capacity for facilitating future Note: Repairs including, but not limited to, resurfacing, restriping and repairing or maintaining existing openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved lighting fixtures are not considered alterations for the purpose of this section. for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. 2. There is no requirement for EV spaces to be constructed or available until EV chargers are installed for use. Note: On and after January 1, 2014, residential buildings undergoing permitted alterations, additions, or 4.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. 4.408.1 CONSTRUCTION WASTE MANAGEMENT. Recycle and/or salvage for reuse a minimum of 65 DIVISION 4.2 ENERGY EFFICIENCY Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate percent of the non-hazardous construction and demolition waste in accordance with either Section 1.When EV chargers (Level 2 EVSE) are installed in a number equal to or greater than the required number of occupancy or final permit approval by the local building department. See Givil Code Section 1101.1, 4.408.2, 4.408.3 or 4.408.4, or meet a more stringent local construction and demolition waste et seq., for the definition of a noncompliant plumbing fixture, types of residential buildings affected and management ordinance. 4.201.1 SCOPE. For the purposes of mandatory energy efficiency standards in this code, the California Energy other important enactment dates. Commission will continue to adopt mandatory standards. 2.When EV chargers (Level 2 EVSE) are installed in a number less than the required number of EV capable Exceptions: spaces, the number of EV capable spaces required may be reduced by a number equal to the number of EV chargers installed. 301.2 LOW-RISE AND HIGH-RISE RESIDENTIAL BUILDINGS. [HCD] The provisions of DIVISION 4.3 WATER EFFICIENCY AND CONSERVATION Excavated soil and land-clearing debris. individual sections of CALGreen may apply to either low-rise residential buildings high-rise residential 2. Alternate waste reduction methods developed by working with local agencies if diversion or buildings, or both. Individual sections will be designated by banners to indicate where the section applies recycle facilities capable of compliance with this item do not exist or are not located reasonably 4.303.1 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and specifically to low-rise only (LR) or high-rise only (HR). When the section applies to both low-rise and a. Construction documents are intended to demonstrate the project's capability and capacity for facilitating high-rise buildings, no banner will be used. urinals) and fittings (faucets and showerheads) shall comply with the sections 4.303.1.1, 4.303.1.2, 4.303.1.3, 3. The enforcing agency may make exceptions to the requirements of this section when isolated future EV charging. jobsites are located in areas beyond the haul boundaries of the diversion facility. b. There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or SECTION 302 MIXED OCCUPANCY BUILDINGS Note: All noncompliant plumbing fixtures in any residential real property shall be replaced with water-conserving 1.408.2 CONSTRUCTION WASTE MANAGEMENT PLAN. Submit a construction waste management plan EV chargers are installed for use. plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final in conformance with Items 1 through 5. The construction waste management plan shall be updated as 302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building completion, certificate of occupancy, or final permit approval by the local building department. See Civil necessary and shall be available during construction for examination by the enforcing agency. 2.EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power Code Section 1101.1, et seq., for the definition of a noncompliant plumbing fixture, types of residential shall comply with the specific green building measures applicable to each specific occupancy. Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per buildings affected and other important enactment dates. 1. Identify the construction and demolition waste materials to be diverted from disposal by recycling, dwelling unit when more than one parking space is provided for use by a single dwelling unit. [HCD] Accessory structures and accessory occupancies serving residential buildings shall reuse on the project or salvage for future use or sale. comply with Chapter 4 and Appendix A4, as applicable. 4.303.1.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per 2. Specify if construction and demolition waste materials will be sorted on-site (source separated) or Exception: Areas of parking facilities served by parking lifts. [HCD] For purposes of CALGreen, live/work units, complying with Section 419 of the California flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense bulk mixed (single stream). Building Code, shall not be considered mixed occupancies. Live/Work units shall comply with Specification for Tank-type Toilets. 3. Identify diversion facilities where the construction and demolition waste material collected will be 4.106.4.2.2 Multifamily development projects with 20 or more dwelling units, hotels and motels with 20 or more Chapter 4 and Appendix A4, as applicable. sleeping units or guest rooms. Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume 4. Identify construction methods employed to reduce the amount of construction and demolition waste DIVISION 4.1 PLANNING AND DESIGN The number of dwelling units, sleeping units or guest rooms shall be based on all buildings on a project site subject to of two reduced flushes and one full flush. 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated ABBREVIATION DEFINITIONS: 4.303.1.2 Urinals. The effective flush volume of wall mounted urinals shall not exceed 0.125 gallons per flush. by weight or volume, but not by both. 1.EV Capable. Ten (10) percent of the total number of parking spaces on a building site, provided for all types Department of Housing and Community Development The effective flush volume of all other urinals shall not exceed 0.5 gallons per flush. of parking facilities, shall be electric vehicle charging spaces (EV spaces) capable of supporting future Level 2 California Building Standards Commission 1.408.3 WASTE MANAGEMENT COMPANY. Utilize a waste management company, approved by the EVSE. Electrical load calculations shall demonstrate that the electrical panel service capacity and electrical Division of the State Architect, Structural Safety 4.303.1.3 Showerheads enforcing agency, which can provide verifiable documentation that the percentage of construction and system, including any on-site distribution transformer(s), have sufficient capacity to simultaneously charge all OSHPD Office of Statewide Health Planning and Development demolition waste material diverted from the landfill complies with Section 4.408.1. EVs at all required EV spaces at a minimum of 40 amperes. 4.303.1.3.1 Single Showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA Note: The owner or contractor may make the determination if the construction and demolition waste The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved Additions and Alterations NaterSense Specification for Showerheads. materials will be diverted by a waste management company. for future EV charging purposes as "EV CAPABLE" in accordance with the California Electrical Code. 4.303.1.3.2 Multiple showerheads serving one shower. When a shower is served by more than one .408.4 WASTE STREAM REDUCTION ALTERNATIVE [LR]. Projects that generate a total combined CHAPTER 4 Exception: When EV chargers (Level 2 EVSE) are installed in a number greater than five (5) percent of showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by weight of construction and demolition waste disposed of in landfills, which do not exceed 3.4 parking spaces required by Section 4.106.4.2.2, Item 3, the number of EV capable spaces required may be a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to only lbs./sq.ft. of the building area shall meet the minimum 65% construction waste reduction requirement in RESIDENTIAL MANDATORY MEASURES reduced by a number equal to the number of EV chargers installed over the five (5) percent required. allow one shower outlet to be in operation at a time. Note: A hand-held shower shall be considered a showerhead. 4.408.4.1 WASTE STREAM REDUCTION ALTERNATIVE. Projects that generate a total combined weight of construction and demolition waste disposed of in landfills, which do not exceed 2 pounds **SECTION 4.102 DEFINITIONS** a. Construction documents shall show locations of future EV spaces. per square foot of the building area, shall meet the minimum 65% construction waste reduction requirement in Section 4.408.1 The following terms are defined in Chapter 2 (and are included here for reference) b. There is no requirement for EV spaces to be constructed or available until receptacles for EV charging or 4.303.1.4.1 Residential Lavatory Faucets. The maximum flow rate of residential lavatory faucets shall EV chargers are installed for use. not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall 4.408.5 DOCUMENTATION. Documentation shall be provided to the enforcing agency which demonstrates FRENCH DRAIN. A trench, hole or other depressed area loosely filled with rock, gravel, fragments of brick or similar not be less than 0.8 gallons per minute at 20 psi. compliance with Section 4.408.2, items 1 through 5, Section 4.408.3 or Section 4.408.4... 2.EV Ready. Twenty-five (25) percent of the total number of parking spaces shall be equipped with low power pervious material used to collect or channel drainage or runoff water. Level 2 EV charging receptacles. For multifamily parking facilities, no more than one receptacle is required per 4.303.1.4.2 Lavatory Faucets in Common and Public Use Areas. The maximum flow rate of lavatory WATTLES. Wattles are used to reduce sediment in runoff. Wattles are often constructed of natural plant materials dwelling unit when more than one parking space is provided for use by a single dwelling unit. faucets installed in common and public use areas (outside of dwellings or sleeping units) in residential such as hay, straw or similar material shaped in the form of tubes and placed on a downflow slope. Wattles are also buildings shall not exceed 0.5 gallons per minute at 60 psi. 1. Sample forms found in "A Guide to the California Green Building Standards Code used for perimeter and inlet controls. Exception: Areas of parking facilities served by parking lifts. (Residential)" located at www.hcd.ca.gov/CALGreen.html may be used to assist in 4.303.1.4.3 Metering Faucets. Metering faucets when installed in residential buildings shall not deliver documenting compliance with this section. 4.106 SITE DEVELOPMENT 3.EV Chargers. Five (5) percent of the total number of parking spaces shall be equipped with Level 2 EVSE. 2. Mixed construction and demolifion debris (C & D) processors can be located at the California Where common use parking is provided, at least one EV charger shall be located in the common use parking 4.106.1 GENERAL. Preservation and use of available natural resources shall be accomplished through evaluation Department of Resources Recycling and Recovery (CalRecycle). and careful planning to minimize negative effects on the site and adjacent areas. Preservation of slopes, area and shall be available for use by all residents or guests. 4.303.1.4.4 Kitchen Faucets. The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons management of storm water drainage and erosion controls shall comply with this section. per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not 4.410 BUILDING MAINTENANCE AND OPERATION When low power Level 2 EV charging receptacles or Level 2 EVSE are installed beyond the minimum required 4.410.1 OPERATION AND MAINTENANCE MANUAL. At the time of final inspection, a manual, compact to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per 4.106.2 STORM WATER DRAINAGE AND RETENTION DURING CONSTRUCTION. Projects which disturb less an automatic load management system (ALMS) may be used to reduce the maximum required electrical disc, web-based reference or other media acceptable to the enforcing agency which includes all of the than one agre of soil and are not part of a larger common plan of development which in total disturbs one agre capacity to each space served by the ALMS. The electrical system and any on-site distribution transformers following shall be placed in the building: or more, shall manage storm water drainage during construction. In order to manage storm water drainage shall have sufficient capacity to deliver at least 3.3 kW simultaneously to each EV charging station (EVCS) Note: Where complying faucets are unavailable, aerators or other means may be used to achieve during construction, one or more of the following measures shall be implemented to prevent flooding of adjacent served by the ALMS. The branch circuit shall have a minimum capacity of 40 amperes, and installed EVSE shall Directions to the owner or occupant that the manual shall remain with the building throughout the property, prevent erosion and retain soil runoff on the site. have a capacity of not less than 30 amperes. ALMS shall not be used to reduce the minimum required electrical life cycle of the structure. capacity to the required EV capable spaces. 4.303.1.4.5 Pre-rinse spray valves. Operation and maintenance instructions for the following: Retention basins of sufficient size shall be utilized to retain storm water on the site. When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Equipment and appliances, including water-saving devices and systems, HVAC systems, 2. Where storm water is conveyed to a public drainage system, collection point, gutter or similar 4.106.4.2.2.1 Electric vehicle charging stations (EVCS). Efficiency Regulations), Sections 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 photovoltaic systems, electric vehicle chargers, water-heating systems and other major disposal method, water shall be filtered by use of a barrier system, wattle or other method approved Electric vehicle charging stations required by Section 4.106.4.2.2, Item 3, shall comply with Section 4.106.4.2.2.1. (d)(7) and shall be equipped with an integral automatic shutoff. appliances and equipment. by the enforcing agency Roof and yard drainage, including gutters and downspouts. Compliance with a lawfully enacted storm water management ordinance. Exception: Electric vehicle charging stations serving public accommodations, public housing, motels and hotels FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Space conditioning systems, including condensers and air filters. shall not be required to comply with this section. See California Building Code, Chapter 11B, for applicable Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section d. Landscape irrigation systems. Note: Refer to the State Water Resources Control Board for projects which disturb one acre or more of soil, or 1605.3 (h)(4)(A). e. Water reuse systems. are part of a larger common plan of development which in total disturbs one acre or more of soil. 3. Information from local utility, water and waste recovery providers on methods to further reduce 4.106.4.2.2.1.1 Location. resource consumption, including recycle programs and locations. EVCS shall comply with at least one of the following options: (Website: https://www.waterboards.ca.gov/water_issues/programs/stormwater/construction.html) TABLE H-2 Public transportation and/or carpool options available in the area. 5. Educational material on the positive impacts of an interior relative humidity between 30-60 percent 4.106.3 GRADING AND PAVING. Construction plans shall indicate how the site grading or drainage system will The charging space shall be located adjacent to an accessible parking space meeting the requirements of and what methods an occupant may use to maintain the relative humidity level in that range. the California Building Code, Chapter 11A, to allow use of the EV charger from the accessible parking space. manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY Information about water-conserving landscape and irrigation design and controllers which conserve water include, but are not limited to, the following: VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019 The charging space shall be located on an accessible route, as defined in the California Building Code, 7. Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation 2. Water collection and disposal systems MAXIMUM FLOW RATE (gpm) Information on required routine maintenance measures, including, but not limited to, caulking, Exception: Electric vehicle charging stations designed and constructed in compliance with the California French drains [spray force in ounce force (ozf)] painting, grading around the building, etc. Water retention gardens Building Code, Chapter 11B, are not required to comply with Section 4.106.4.2.2.1.1 and Section Information about state solar energy and incentive programs available. Other water measures which keep surface water away from buildings and aid in groundwater A copy of all special inspections verifications required by the enforcing agency or this code. Product Class 1 (≤ 5.0 ozl) 11. Information from the Department of Forestry and Fire Protection on maintenance of defensible 4.106.4.2.2.1.2 Electric vehicle charging stations (EVCS) dimensions. space around residential structures. Exception: Additions and alterations not altering the drainage path. The charging spaces shall be designed to comply with the following: Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf) Information and/or drawings identifying the location of grab bar reinforcements. Product Class 3 (> 8.0 ozf) 4.106.4 Electric vehicle (EV) charging for new construction. New construction shall comply with Sections 4.106.4.1 or 4.106.4.2 to facilitate future installation and use of EV chargers. Electric vehicle supply The minimum length of each EV space shall be 18 feet (5486 mm). 4.410.2 RECYCLING BY OCCUPANTS. Where 5 or more multifamily dwelling units are constructed on a Title 20 Section 1605.3 (h)(4)(A): Commercial prerinse spray values manufactured on or after January building site, provide readily accessible area(s) that serves all buildings on the site and are identified for the 2. The minimum width of each EV space shall be 9 feet (2743 mm). equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625. 1, 2006, shall have a minimum spray force of not less than 4.0 ounces-force (ozf)(113 grams-force(gf)) depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waster, and metals, or meet a lawfully enacted local recycling One in every 25 charging spaces, but not less than one, shall also have an 8-foot (2438 mm) wide minimum 4.303.2 Submeters for multifamily buildings and dwelling units in mixed-used residential/commercial 1. On a case-by-case basis, where the local enforcing agency has determined EV charging and aisle. A 5-foot (1524 mm) wide minimum aisle shall be permitted provided the minimum width of the EV space is infrastructure are not feasible based upon one or more of the following conditions: Submeters shall be installed to measure water usage of individual rental dwelling units in accordance with the Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code Section 1.1 Where there is no local utility power supply or the local utility is unable to supply adequate California Plumbing Code. 42649.82 (a)(2)(A) et seq. are note required to comply with the organic waste portion of a.Surface slope for this EV space and the aisle shall not exceed 1 unit vertical in 48 units horizontal (2.083 1.2 Where there is evidence suitable to the local enforcing agency substantiating that additional percent slope) in any direction 4.303.3 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in local utility infrastructure design requirements, directly related to the implementation of Section accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 4.106.4, may adversely impact the construction cost of the project. 1701.1 of the California Plumbing Code. In addition to the requirements in Sections 4.106.4.2.2.1.1 and 4.106.4.2.2.1.2, all EVSE, when installed, shall Accessory Dwelling Units (ADU) and Junior Accessory Dwelling Units (JADU) without additional **DIVISION 4.5 ENVIRONMENTAL QUALITY** comply with the accessibility provisions for EV chargers in the California Building Code, Chapter 11B. EV ready spaces and EVCS in multifamily developments shall comply with California Building Code, Chapter 11A, Section SECTION 4.501 GENERAL THIS TABLE COMPILES THE DATA IN SECTION 4.303.1, AND IS INCLUDED AS A CONVENIENCE FOR THE USER. 4.106.4.1 New one- and two-family dwellings and townhouses with attached private garages. For each The provisions of this chapter shall outline means of reducing the quality of air contaminants that are odorous, dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway TABLE - MAXIMUM FIXTURE WATER USE irritating and/or harmful to the comfort and well being of a building's installers, occupants and neighbors. shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main Single EV space required. Install a listed raceway capable of accommodating a 208/240-volt dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the FIXTURE TYPE FLOW RATE **SECTION 4.502 DEFINITIONS** proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or originate at the main service or subpanel and shall terminate into a listed cabinet, box or enclosure in close 5.102.1 DEFINITIONS onceated areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere proximity to the location or the proposed location of the EV space. Construction documents shall identify the SHOWER HEADS (RESIDENTIAL) 1.8 GMP @ 80 PSI The following terms are defined in Chapter 2 (and are included here for reference) 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit receway termination point, receptacle or charger location, as applicable. The service panel and/ or subpanel shall have a 40-ampere minimum dedicated branch circuit, including branch circuit overcurrent protective device AGRIFIBER PRODUCTS. Agrifiber products include wheatboard, strawboard, panel substrates and door MAX. 1.2 GPM @ 60 PSI MIN. 0.8 GPM @ 20 installed, or space(s) reserved to permit installation of a branch circuit overcurrent protective device. LAVATORY FAUCETS (RESIDENTIAL) cores, not including furniture, fixtures and equipment (FF&E) not considered base building elements. Exemption: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is installed in close proximity to the proposed location of an EV charger at the time of original construction in Exception: A raceway is not required if a minimum 40-ampere 208/240-volt dedicated EV branch circuit is LAVATORY FAUCETS IN COMMON & PUBLIC COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and accordance with the California Electrical Code. installed in close proximity to the location or the proposed location of the EV space, at the time of original 0.5 GPM @ 60 PSI medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, construction in accordance with the California Electrical Code. structural panels, structural composite lumber, criented strand board, glued laminated timber, prefabricated 4.106.4.1.1 Identification. The service panel or subpanel circuit directory shall identify the overcurrent 1.8 GPM @ 60 PSI KITCHEN FAUCETS wood I-joists or finger-jointed lumber, all as specified in California Code of regulations (CCR), title 17, Section protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination Multiple EV spaces required. Construction documents shall indicate the raceway termination point and the location shall be permanently and visibly marked as "EV CAPABLE". location of installed or future EV spaces, receptacles or EV chargers. Construction documents shall also provide METERING FAUCETS 0.2 GAL/CYCLE information on amperage of installed or future receptacles or EVSE, raceway method(s), wiring schematics and DIRECT-VENT APPLIANCE. A fuel-burning appliance with a sealed combustion system that draws all air for WATER CLOSET 1.28 GAL/FLUSH electrical load calculations. Plan design shall be based upon a 40-ampere minimum branch circuit. Required combustion from the outside atmosphere and discharges all flue gases to the outside atmosphere.

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE FULL CODE.

0.125 GAL/FLUSH

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TRICTIONS, AND CODE REQUIREMENTS WI

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IRLING V VERNESS PN#112-13

DATE: JAN. 13,2023

DRAWN BY:

SCALE: AS SHOWN



2022 CALIFORNIA GREEN BUILDING STANDARDS CODE RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

MAXIMUM INCREMENTAL REACTIVITY (MIR): The maximum change in weight of ozone formed by adding a compound to the "Base Reactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 MOISTURE CONTENT. The weight of the water in wood expressed in percentage of the weight of the oven-dry wood. PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging). Note: PWMIR is calculated according to equations found in CCR, Title 17, Section 94521 (a). REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere. VOC. A volatile organic compound (VOC) broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain exygen, nitrogen and other elements. See CCR Title 17, Section 94508(a). 4.503 FIREPLACES
4.503.1 GENERAL. Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as pplicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, ellet stoves and fireplaces shall also comply with applicable local ordinances. 4.504 POLLUTANT CONTROL 4.504.1 COVERING OF DUCT OPENINGS & PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION. At the time of rough installation, during storage on the construction site and until final tartup of the heating, cooling and ventilating equipment, all duct and other related air distribution component penings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to educe the amount of water, dust or debris which may enter the system. 4.504.2 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with this section. 4.504.2.1 Adhesives, Sealants and Caulks. Adhesives, sealant and caulks used on the project shall meet the requirements of the following standards unless more stringent local or regional air politition or air quality management district rules apply: Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCACMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and (riclomethylene), except for aerosol products, as specified in Subsection 2 below. 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than 1 pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17. commencing with section 94507. 4.504.2.2 Paints and Coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Suggested Control Measure, as shown in Table 4,504.3, unless more stringent local limit apply. The VOC contest limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat. Nonflat or Nonflat High Gloss coating, based on its gloss, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 California Air Resources Board, Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High-Gloss VOC limit in 4.504.2.3 Acrosol Paints and Coatings. Acrosol paints and coatings shall meet the Product-weighted MIR Limits for ROC in Section 94522(a)(2) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(e)(1) and (f)(1) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 4.504.2.4 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: ARCH / BUILDE Manufacturer's product specification. Field verification of on-site product containers. TABLE 4,504.1 - ADHESIVE VOC LIMIT::2 (Less Water and Less Exempt Compounds in Grams per Liter) ARCHITECTURAL APPLICATIONS INDOOR CARPET ADHESIVES CARPET PAD ADHESIVES OUTDOOR CARPET ADHESIVES WOOD FLOORING ADHESIVES RUBBER FLOOR ADHESIVES SUBFLOOR ADHESIVES CERAMIC TILE ADHESIVES VCT & ASPHALT TILE ADHESIVES DRYWALL & PANEL ADHESIVES COVE BASE ADHESIVES MULTIPURPOSE CONSTRUCTION ADHESIVE STRUCTURAL GLAZING ADHESIVES SINGLE-PLY ROOF MEMBRANE ADHESIVES OTHER ADHESIVES NOT LISTED SPECIALTY APPLICATIONS PVC WELDING CPVC WELDING PLASTIC CEMENT WELDING ADHESIVE PRIMER FOR PLASTIC CONTACT ADHESIVE SPECIAL PURPOSE CONTACT ADHESIVE

(Less Water and Less Exempt Compounds in Gr	ams per Liter)
SEALANTS	VOC LIMIT
ARCHITECTURAL.	250
MARINE DECK	760
NONMEMBRANE ROOF	(300)
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NÖN-PÖRÖUS	250
PORGUS	775
MODIFIED BITUMINOUS	560
MARINE DECK	760
OTHER	750

GRAMS OF VOCIPER LITER OF COATING, LESS V COMPOUNDS	VATER & LESS EXEMPT
COATING CATEGORY	VOE LIMIT
FLAT COATINGS	50
NON-FLAT COATINGS	100
NONFLAT-HIGH GLOSS COATINGS	150
SPECIALTY COATINGS	*
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	5 0
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE GURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FÖG CÖATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LÓW SÓLIDS COATINGS:	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
REGYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLAGS	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERGOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS

THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS

SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY

ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

AVAILABLE FROM THE AIR RESOURCES BOARD.

			DWASSASSA LATERACK SAME SALE SAME	4623	
			PARTICLE BOARD	0.09	
			MEDIUM DENSITY FIBERBOARD	0.11	
			THIN MEDIUM DENSITY FIBERBOARD:	0.13	Į
			 VALUES IN THIS TABLE ARE DERIVED FROM BY THE GALIF. AIR RESOURCES BOARD, AIR TO 		
ı			MEASURE FOR COMPOSITE WOOD AS TESTED	IN ACCORDANCE	
			WITH ASTM E 1333. FOR ADDITIONAL INFORM CODE OF REGULATIONS, TITLE 17, SECTIONS		
			93126.12.		
			 THIN MEDIUM DENSITY FIBERBOARD HAS A THICKNESS OF 5/16° (8 MM). 	MUMIXAM	
			TO DESCRIPTION OF THE PARTY. TO MAKE		
y l	o o		DIVISION 4.5 ENVIRONMENTAL QUA	LITY (continue	d)
1	L-J		4.504.3 CARPET SYSTEMS. All carpet installed in the building interior	r shall meet the requireme	ints of the California
		ARCH	Department of Public Health, "Standard Method for the Testing and Ev from Indoor Sources Using Environmental Chambers," Version 1.2. Ja	nuary 2017 (Emission test	ing method for
ı			California Specification 01:350)		
ı			See California Department of Public Health's website for certification pr	ograms and testing labs.	
ı			https://www.cdph.ca.gov/Programs/CCDPHP/DEODG/EHLB/IAQ/Page	s/VOC.aspx.	
ij	Ħ		4.504.3.1 Carpet cushion. All carpet cushion installed in the bu		
		ARCH	California Department of Public Health, "Standard Method for the Chemical Emissions from Indoor Sources Using Environmental (
ı		ANGH	(Emission testing method for California Specification 01350)		an man & (—a) 14
ı			See California Department of Public Health's website for cartifica	ition programs and testing	llabs:
ı			https://www.edph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IA()/Pages/VOC aspx	
3			4.504.3.2 Carpet adhesive. All carpet adhesive shall meet the		Maria.
ĵ			to a mention of the mention of the mention of the mention of the mention of	ar vegative to the total of the end of the territory	
		4000	4.504.4 RESILIENT FLOORING SYSTEMS. Where resilient flooring resilient flooring shall meet the requirements of the California Department.	ent of Public Health, "Stan	dard Method for the
		ARCH	Testing and Evaluation of Volatile Organic Chemical Emissions from In Version 1.2, January 2017 (Emission testing method for California Spe	door Sources Using Envir	
			a me a amountely. More rath, reducted backs as a me in the described and a street of a second second as rath. La commendation countries made as	- and the state of	
			See California Department of Public Health's website for certification pr		
ı			hhtps://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB//AQ/Pag	es/VOC aspx.	
7			4.504.5 COMPOSITE WOOD PRODUCTS. Hardwood plywood, panie	Parking and consideration of the con-	The Alberta Section
,	-,	ARCH	composite wood products used on the interior or exterior of the building	is shall meet the requirem	ents for
			formaldehyde as specified in ARB's Air Toxics Control Measure for Co by or before the dates specified in those sections, as shown in Table 4	mposite Wood (17 CCR 9) 504:5	532U et seq.),
3			4.504.5.1 Documentation. Verification of compliance with this:		is requested
.		ARCH	by the enforcing agency. Documentation shall include at least or		or or organizately Mi
			 Product certifications and specifications. 		
			 Chain of custody certifications. Product labeled and invoiced as meeting the Compos 	te Wood Producis remulai	ion (see:
ı			CCR, Title 17, Section 93120, et seq.).	The section of the se	i day alignay wasa
1			 Exterior grade products marked as meeting the PS-1 - Wood Association, the Australian AS/NZS 2269, Euro 	pean 636 3S standards, a	
1			0121, CSA 0151, CSA 0153 and CSA 0325 standards 5. Other methods acceptable to the enforcing agency.	i.	
			All		
			A FOR INTERIOR MOISTURE CONTROL		
			4.505 INTERIOR MOISTURE CONTROL 4.505.1 General. Buildings shall meet or exceed the provisions of the	California Building Standa	uds Code.
2	ш			· week	
	III N/A		4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floors	ris required to have a vapor i required to have a vapor	or retarder by
	N/A		4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floor California Residential Code, Chapter 5, shall also comply with this sect	ris required to have a vapor s required to have a vapor ion.	or retarder by retarder by the
3	N/A		4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floors	ris required to have a vapor s required to have a vapor ion.	or retarder by retarder by the
3	N/A		4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundatio California Building Code, Chapter 19, or concrete slab-on-ground floor California Residential Code, Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) in	ns required to have a vapor i required to have a vapor ion. I compliance with at least or larger clean aggregate :	or retarder by relarder by the one of the shall be provided with
3	N/A		4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floor California Residential Code. Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A.4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) is a vapor barrier in direct contact with concrete and a sa	ns required to have a vapor irequired to have a vapor ion. I compliance with at least or larger clean aggregate s pacrete mix design, which	or retarder by relarder by the one of the shall be provided with will address bleeding,
3	N/A		4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab on ground floor California Residential Code, Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or a vapor barrier in direct contact with concrete and a capillary break shall be used. For additional in ACI 302.2R-06.	ns required to have a vapor required to have a vapor ion. I compliance with at least or larger clean aggregate s pacrete mix design, which nformation, see American	or retarder by relarder by the one of the shall be provided with will address bleeding,
3	N/A		4.505.1 General. Buildings shall meet or exceed the provisions of the: 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floor California Residential Code. Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm); a vapor barrier in direct contact with concrete and a sa shrinkage, and curling, shall be used. For additional in	ns required to have a vapor required to have a vapor ion. I compliance with at least or larger clean aggregate : sacrete mix design, which nformation, see American agency.	or retarder by relarder by the one of the shall be provided with will address bleeding,
3	N/A N/A		4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab on ground floor California Residential Code. Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) a vapor barrier in direct contact with concrete and a shrinkage, and curling, shall be used. For additional in ACI 302.2R.06. 2. Other equivalent methods approved by the enforcing a 3. A slab design specified by a licensed design profession.	ns required to have a vapor irequired to have a vapor ion. I compliance with at least or larger clean aggregate s secrete mix design, which oformation, see American agency.	or retarder by relarder by the one of the shall be provided with will address bleeding, Concrete Institute,
3	N/A		4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floor California Residential Code. Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm); a vapor barrier in direct contact with concrete and a caphrinkage, and curling shall be used. For additional in ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing and a slab design specified by a licensed design profession. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe	ns required to have a vapor in a required to have a vapor ion. I compliance with at least or larger clean aggregate is secrete mix design, which information, see American agency, materials with visible sign in the framing members ex	or retarder by retarder by the one of the thall be provided with will address bleeding, Concrete Institute,
3	N/A N/A	BUILDER	4.505.1 General. Buildings shall meet or exceed the provisions of the california Building Code, Chapter 19, or concrete slab on ground floor California Building Code, Chapter 19, or concrete slab on ground floor California Residential Code, Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm); a vapor barrier in direct contact with concrete and a capinate shall be used. For additional and ACI 302.2R-96. 2. Other equivalent methods approved by the enforcing and a slab design specified by a licensed design profession. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be verified in compliance with	ns required to have a vapor required to have a vapor ion. I compliance with at least or larger clean aggregate spacete mix design, which information, see American agency, and, materials with visible sign in the framing members exithe following:	or retarder by retarder by the one of the shall be provided with will address bleeding, Concrete Institute, as of water damage ceed 19 percent
3	N/A N/A	BUILDER	4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab on ground floor California Residential Code, Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) is a vapor barrier in direct contact with concrete and a capillary break and cording, shall be used. For additional is ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing a 3. A slab design specified by a licensed design profession 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be enclosed whe moisture content. Moisture content shall be verified in compliance with	ins required to have a vapor in a required to have a vapor ion. I compliance with at least or larger clean aggregate socrete mix design, which information, see American agency. I materials with visible sign in the framing members exist the following:	or retarder by retarder by the one of the shall be provided with will address bleeding, Concrete Institute, as of water damage ceed 19 percent
3	N/A N/A	BUILDER	4.505.1 General. Buildings shall meet or exceed the provisions of the: 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floor California Residential Code. Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm); a vapor barrier in direct contact with concrete and a caphrinkage, and curling shall be used. For additional in ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing and a stable design specified by a licensed design profession. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be determined with either a probe-type moisture verification methods may be approved by the enfort found in Section 101.8 of this code.	ns required to have a vapor required to have a vapor ion. I compliance with at least or larger clean aggregate is secrete mix design, which information, see American agency, mal. I materials with visible sign in the framing members existe following: I or contact-type moisture cing agency and shall sat	or retarder by retarder by the one of the shall be provided with will address bleeding, Concrete Institute, us of water damage ceed 19 percent meter Equivalent isty requirements
3	N/A N/A	BUILDER	4.505.1 General. Buildings shall meet or exceed the provisions of the contents. Concrete slab foundation California Building Code, Chapter 19, or concrete slab on ground floor California Residential Code, Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) is a vapor barrier in direct contact with concrete and a shrinkage, and curfing, shall be used. For additional is ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing and a slab design specified by a licensed design profession. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be determined with either a probe-type moisture verification methods may be approved by the entor found in Section 101.8 of this code. 2. Moisture readings shall be taken at a point 2 feet (610 mm) to feach piece verified.	ns required to have a vapor required to have a vapor ion. I compliance with at least or larger clean aggregate is increase mix design, which information, see American agency, mal. I materials with visible sign the following: I or contact-type moisture cing agency and shall sat to 4 feet (1219 mm) from the following:	or retarder by retarder by the one of the thall be provided with will address bleeding, Concrete Institute, as of water damage ceed 19 percent meter Equivalent isty requirements he grade stamped end
3	N/A N/A	BUILDER	4.505.1 General. Buildings shall meet or exceed the provisions of the control of	ins required to have a vapor required to have a vapor ion. I compliance with at least or larger clean aggregate spacete mix design, which information, see American agency, mal. I materials with visible sign in the framing members exist the following: I or contact-type moisture cing agency and shall sat of 4 feet (1219 mm) from the on wall and floor framing or wall and floor	or retarder by retarder by the one of the shall be provided with will address bleeding, Concrete Institute, as of water damage ceed 19 percent meter Equivalent isfy requirements he grade stamped end with documentation
3	N/A N/A	BUILDER	4.505.1 General. Buildings shall meet or exceed the provisions of the california Building Code, Chapter 19, or concrete slab-on-ground floor California Residential Code. Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) a vapor barrier in direct contact with concrete and a shrinkage, and curling, shall be used. For additional in ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing a 3. A slab design specified by a licensed design profession. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be determined with either a probe-type moisture verification methods may be approved by the enforcing of each piece verified. 1. Moisture readings shall be taken at a point 2 feet (610 mm) to of each piece verified. 3. At least three random moisture readings shall be performed acceptable to the enforcing agency provided at the time of a	ins required to have a vapor in the raming members experient to have a vapor ion. I compliance with at least or larger clean aggregate spacete mix design, which information, see American agency. I materials with visible sign the framing members exist the following: I or contact-type moisture cing agency and shall sat to 4 feet (1219 mm) from the on wall and floor framing was puroval to enclose the was puroval to enclose the was	or retarder by retarder by the one of the shall be provided with will address bleeding, Concrete Institute, us of water damage ceed 19 percent meter Equivalent isfy requirements he grade stamped end with documentation II and floor framing.
3	N/A N/A	BUILDER	4.505.1 General. Buildings shall meet or exceed the provisions of the control of	ins required to have a vapor required to have a vapor from a compliance with at least or larger clean aggregate is pacrete mix design, which allowed the formation, see American agency, mal. I materials with visible sign the following: I or contact-type moisture on agency and shall sat of feet (1219 mm) from the provolute on colose the want shall be replaced or allowing agency and shall sat on wall and floor framing approval to enclose the want shall be replaced or allowed.	or retarder by retarder by the one of the shall be provided with will address bleeding, Concrete Institute, us of water damage ceed 19 percent meter Equivalent isty requirements he grade stamped end with documentation Il and floor framing, swed to dry prior to
3	N/A N/A	BUILDER	4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floor California Residential Code. Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A.4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) is a vapor barrier in direct contact with concrete and a capillary break and corring, shall be used. For additional in ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing and a state of the contact with a concrete and a capillary break. A slab design specified by a licensed design profession. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be determined with either a probe-type moisture verification methods may be approved by the enfort found in Section 101.8 of this code. 2. Moisture readings shall be taken at a point 2 feet (610 mm) to of each piece verified. 3. At least three random moisture readings shall be performed acceptable to the enforcing agency provided at the time of a linsulation products which are visibly wet or have a high moisture content enclosure in wall or floor cavities. Wet-applied insulation products shall recommendations prior to enclosure.	ins required to have a vapor required to have a vapor from a compliance with at least or larger clean aggregate is pacrete mix design, which allowed the formation, see American agency, mal. I materials with visible sign the following: I or contact-type moisture on agency and shall sat of feet (1219 mm) from the provolute on colose the want shall be replaced or allowing agency and shall sat on wall and floor framing approval to enclose the want shall be replaced or allowed.	or retarder by retarder by the one of the shall be provided with will address bleeding, Concrete Institute, us of water damage ceed 19 percent meter Equivalent isty requirements he grade stamped end with documentation Il and floor framing, swed to dry prior to
22	N/A	BUILDER	4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab foundation California Residential Code, Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or a vapor barrier in direct contact with concrete and a caphrinkage, and curling, shall be used. For additional 1 ACI 302.2 R-06. 2. Other equivalent methods approved by the enforcing 3. A slab design specified by a licensed design profession. Acid 302.2 R-06. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be determined with either a probe-type moisture verification methods may be approved by the enfort found in Section 101.8 of this code. 2. Moisture readings shall be taken at a point 2 feet (610 mm) to deach piece verified. 3. At least three random moisture readings shall be performed acceptable to the enforcing agency provided at the time of a linsulation products which are visibly wet or have a high moisture content commendations prior to enclosure. 4.506 INDOOR AIR QUALITY AND EXHAUST	ins required to have a vapor required to have a vapor for. I compliance with at least or larger clean aggregate a socrete mix design, which information, see American agency, mal. I materials with visible sign in the framing members existing agency and shall sation agency and shall sation wall and floor framing upproval to enclose the wall shall be replaced or allot follow the manufacturers	or retarder by retarder by the one of the on
22	N/A N/A	BUILDER	4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floor California Residential Code. Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A.4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) is a vapor barrier in direct contact with concrete and a capillary break and corring, shall be used. For additional in ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing and a state of the contact with a concrete and a capillary break. A slab design specified by a licensed design profession. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be determined with either a probe-type moisture verification methods may be approved by the enfort found in Section 101.8 of this code. 2. Moisture readings shall be taken at a point 2 feet (610 mm) to of each piece verified. 3. At least three random moisture readings shall be performed acceptable to the enforcing agency provided at the time of a linsulation products which are visibly wet or have a high moisture content enclosure in wall or floor cavities. Wet-applied insulation products shall recommendations prior to enclosure.	ins required to have a vapor required to have a vapor for. I compliance with at least or larger clean aggregate a socrete mix design, which information, see American agency, mal. I materials with visible sign in the framing members existing agency and shall sation agency and shall sation wall and floor framing upproval to enclose the wall shall be replaced or allot follow the manufacturers	or retarder by retarder by the one of the on
22	N/A		4.505.1 General. Buildings shall meet or exceed the provisions of the functions. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floor California Residential Code, Chapter 5, shall also comply with this sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7 mm): a vapor barrier in direct contact with concrete and a caphrinkage, and curfling, shall be used. For additional in ACI 302.2R-08. 2. Other equivalent methods approved by the enforcing 3. A slab design specified by a licensed design profession. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be verified in compliance with 1. Moisture content shall be determined with either a probe-type moisture verification methods may be approved by the enfortound in Section 101.8 of this code. 2. Moisture readings shall be taken at a point 2 feet (610 mm) is of each piece verified. 3. At least three random moisture readings shall be performed acceptable to the enforcing agency provided at the time of a Insulation products which are visibly wet or have a high moisture content enclosure in wall or floor cavities. Wet-applied insulation products sharecommendations prior to enclosure. 4.506 INDOOR AIR QUALITY AND EXHAUST 4.506 I Bathroom exhaust fans. Each bathroom shall be mechanical following:	ins required to have a vapor required to have a vapor from. I compliance with at least or larger clean aggregate is proceed mix design, which information, see American agency, mal. I materials with visible sign the following: I or contact-type moisture on agency and shall sat of feet (1219 mm) from the provol to enclose the want shall be replaced or allowing to the manufacturers.	or retarder by retarder by the one of the shall be provided with will address bleeding. Concrete Institute. Its of water damage ceed 19 percent isty requirements the grade stamped end with documentation if and floor framing, owed to dry prior to drying
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3		HVAC	4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 19, or concrete slab-on-ground floor California Residential Code, Chapter 5, shall also comply with this sect A.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A.4-inch (101.6 mm) thick base of 1/2 inch (12.7mm); a vapor barrier in direct contact with concrete and a cashrinkage, and curling, shall be used. For additional in ACI 302.2R.06. 2. Other equivalent methods approved by the enforcing 3. A slab design specified by a liconsed design profession. ACI 302.2R.06. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be verified in compliance with 1. Moisture content shall be determined with either a probe-type moisture verification methods may be approved by the enfor found in Section. 101.8 of this code. 2. Moisture readings shall be taken at a point 2 feet (610 mm) it of each piece-verified. 3. At least three random moisture readings shall be performed acceptable to the enforcing agency provided at the time of a linearisation products which are visibly wet or have a high moisture content enclosure in wall or floor cavities. Wet applied insulation products shall recommendations prior to enclosure. 4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be ducted to be 2. Unless functioning as a component of a whole house ventilal humidity control. 3. Humidity control may be a separate component to the integral (i.e., built-in) Notes: 1. For the purposes of this section, a bathroom is a room tub/shower combination. 2. Lighting integral to bathroom exhaust fans shall comp. 4.507.2 HeATING AND AIR CONDITIONING SYSTEM DESIGN. He sized, designed and have their equipment selected using the following.	ins required to have a vapor required to have a vapor required to have a vapor ron. I compliance with at least or larger clean aggregate is excrete mix design, which information, see American agency, mal. I materials with visible sign the following: I or contact-type moisture on agency and shall sat or 4 feet (1219 mm) from the or wall and floor framing was proval to enclose the want shall be replaced or allow the manufacturers. Ily ventilated and shall comminate outside the building tion system, fans must be seen a relative humidity rand may utilize manual or a see exhaust fan and is not resulting and air conditioning and air conditioning methods: I/ACCA 2 Manual J-2011	or retarder by retarder by the one of the shall be provided with will address bleeding. Concrete Institute. Is of water damage ceed 19 percent meter Equivalent isly requirements he grade stamped end with documentation if and floor framing, wed to dry prior to drying mply with the ig. confrolled by a lige less than or utomatic means of equired to be shower or gy Code. (Residential
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3		HVAC CONSUL.	4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 15, or concrete slab on ground fibora California Residential Code, Chapter 5, shall also comply with his sect 4.505.2.1 Capillary break. A capillary break shall be installed in following: 1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) is a vapor barrier in direct contact with concrete and a schinkage, and curling, shall be used. For additional) ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing is 3. A slab design specified by a licensed design profession. 4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS. Building shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be verified in compliance with 1. Moisture content shall be determined with either a probe-type moisture verification methods may be approved by the enfortour in Section 101.8 of this code. 2. Moisture readings shall be taken at a point 2 feet (610 mm) is of each piece venified. 3. At least three random moisture readings shall be performed acceptable to the enforcing agency provided at the time of a lineulation products which are visibly wet or have a high moisture content content in wall or floor cavities. Wet applied insulation products shall recommendations prior to enclosure. 4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanical following: 1. Fans shall be ENERGY STAR compliant and be ducted to the 2. Unless functioning as a component of a whole house ventilal humidity control. 3. A humidity control may be a separate component to the integral (i.e., built-in) Notes: 1. For the purposes of this section, a bathroom is a room tub/shower combination. 2. Lighting integral to bathroom exhaust fans shall comp. 4.507 ENVIRONMENTAL COMFORT 4.507.2 HeATING AND AIR-CONDITIONING SYSTEM DESIGN. Heasized, designed and have their equipment is elected using	ins required to have a vapor required to have a vapor required to have a vapor room. I compliance with at least or larger clean aggregate is proceed mix design, which information, see American agency, mal. I materials with visible sign the following: I or contact-type moisture room agency and shall sat or 4 feet (1219 mm) from the mail and floor framing approval to enclose the want shall be replaced or allow the manufacturers. Ity ventilated and shall comminate outside the building system, fans must be seen a relative humidity rand may utilize manual or a see exhaust fan and is not result of the contains a bathtub by with the California Energy ating and air conditioning	or retarder by retarder by the one of the shall be provided with will address bleeding. Concrete Institute. Its of water damage ceed 19 percent meter Equivalent isty requirements he grade stamped end with documentation if and floor framing, awed to dry prior to drying mply with the controlled by a stamped for be shower or ay Code. It is shower or ay Code.
3		HVAC CONSUL.	4.505.1 General. Buildings shall meet or exceed the provisions of the 4.505.2 CONCRETE SLAB FOUNDATIONS. Concrete slab foundation California Building Code, Chapter 15, or concrete slab-on-ground floor California Residential Code, Chapter 15, shall also comply with this section as the contract of the contract of the contract with concrete and a continuous parties of the contract with concrete and a shinkage, and curling, shall be used. For additional in ACI 302.2R-06. 2. Other equivalent methods approved by the enforcing a slab design specified by a licensed design profession. A slab design specified by a licensed design profession at a slab design specified by a licensed design profession. A slab design specified by a licensed design profession at a slab design specified by a licensed design profession. A slab design specified by a licensed design profession shall not be installed. Wall and floor framing shall not be enclosed whe moisture content. Moisture content shall be verified in compliance with moisture verification methods may be approved by the enfortous in Section. 101.8 of this code. 2. Moisture readings shall be determined with either a probe-type moisture verification methods may be approved by the enfortous deach piece verified. 3. At least three readings shall be taken at a point 2 feet (610 mm) is of each piece verified. 3. At least three readom moisture readings shall be performed acceptable to the enforcing agency provided at the time of a linsulation products which are visibly wet or have a high moisture content enclosure in wall or floor cavities. Well-applied insulation products sharecommendations prior to enclosure. 4.506 INDOOR AIR QUALITY AND EXHAUST 4.506.1 Bathroom exhaust fans. Each bathroom shall be mechanical following. 1. Fans shall be ENERGY STAR compliant and be ducted to the quality control shall be capable of adjustment between englishment. 2. Humidity control shall be capable of adjustment between englishment. 3. Humidity control may be a separate component to the integ	ins required to have a vapor required to have a vapor ron. I compliance with at least or larger clean aggregate is excrete mix design, which information, see American agency, mal. I materials with visible sign in the framing members exist following: I or contact-type moisture ong agency and shall sat on a floor framing vaporoval to enclose the want shall be replaced or allowing if follow the manufacturers. Ity ventilated and shall comminate outside the building too system, fans must be seen a relative humidity rand may utilize manual or a new exhaust fan and is not resulted and an area of the contains a bathtub by with the California Energy ating and air conditioning a methods. I/AGCA 2 Manual J - 2011 design software or methods. I/AGCA 2 Manual J - 2011 design software or methods. CA 3 Manual S - 2014 (Reconditions).	or retarder by retarder by the one of the shall be provided with will address bleeding. Concrete Institute. Its of water damage ceed 19 percent meter Equivalent isty requirements he grade stamped end with documentation if and floor framing, awed to dry prior to drying mply with the controlled by a stamped for be shower or ay Code. It is shower or ay Code.

Exception: Use of alternate design temperatures necessary to ensure the system functions are

TABLE 4.504.5 ~ FORMALDEHYDE LIMITS:

HARDWOOD PLYWOOD VENEER CORE

HARDWOOD PLYWOOD COMPOSITE CORE

PRODUCT

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

CURRENT LIMIT

0.05

0.05

INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS 702 QUALIFICATIONS 702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or pertification program. Uncertified persons may perform HVAC installations when under the direct supervision and esponsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following: State certified apprenticeship programs. Public utility training programs
 Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. Programs sponsored by manufacturing organizations. Other programs acceptable to the enforcing agency. 702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector: Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors. Successful completion of a third party apprentice training program in the appropriate trade. Other programs acceptable to the enforcing agency. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS). [BSC]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other dulies necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a ecognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency. Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 703 VERIFICATIONS 703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific

focumentation or special inspection is necessary to verify compliance, that method of compliance will be specified in

the appropriate section or identified applicable checklist.

TRICTIONS, AND CODE REQUIREMENTS WITH

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OWNER

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DATE: JAN. 13,2023

DRAWN BY: SCALE: AS SHOWN

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, 2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR

STRUCTURAL WOOD MEMBER ADHESIVE

SUBSTRATE SPECIFIC APPLICATIONS

POROUS MATERIAL (EXCEPT WOOD)

QUALITY MANAGEMENT DISTRICT RULE 1168.

PLASTIC FOAMS

DISCLAIMER: THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING STANDARDS (CALGREEN) CODE.