

# BUSHELL RESIDENCE

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ABBREVIATIONS		PROJECT GENERAL NOTES		PROJECT DATA		SHEET INDEX																																																
<p><b>A.B.</b> ANCHOR BOLT <b>ABV.</b> ABOVE <b>AC</b> AIR CONDITIONING <b>ACOUS.</b> ACoustical <b>ADJ.</b> ADJACENT <b>ADJ.</b> ADJUSTABLE <b>AL.</b> ALUMINUM <b>ALT.</b> ALTERNATE <b>AMP.</b> AMPERAGE <b>AVG.</b> AVERAGE <b>BD.</b> BOARD <b>BLOG.</b> BUILDING <b>BLOCKING</b> BLOCKING <b>BLT-IN</b> BUILT-IN <b>BM.</b> BEAM <b>BN.</b> BOUNDARY MARKING <b>BRG.</b> BEARING <b>B.S.</b> BAR SINK <b>CABT.</b> CABINET <b>CALC.</b> CALCULATION <b>CAMBR.</b> CAMBER <b>C.H.C.</b> CEILING HEIGHT <b>CHANGE</b> CHANGE <b>C.I.</b> CAST IRON <b>C.L.</b> CENTER LINE <b>CL.</b> CLEAR <b>CLR.</b> COUNTER <b>CONTRP.</b> CONCRETE <b>C.O.</b> CASED OPENING <b>C.P.</b> CONT. JOINT <b>CONT.</b> CONTIGUOUS <b>COR.</b> CORNER <b>C.R.</b> CASEMENT WINDOW <b>C.T.</b> CERAMIC TILE <b>D.T.</b> DOUBLE <b>D.F.</b> DOUGLAS FIR <b>DA, OR Ø</b> DIAMETER <b>DM.</b> DIMENSION <b>DN.</b> DOWNSPOUT <b>DP.</b> DEEP <b>DR.</b> DOOR <b>DRL.</b> DROP <b>D.S.</b> DOWNSPOUT <b>DTL.</b> DETAIL <b>D.W.</b> DISHWASHER <b>DWC.</b> DRAWING <b>DWR.</b> DRAWER <b>EA.</b> EACH <b>ELECT.</b> ELECTRICAL <b>ELEV.</b> ELEVATION <b>EDGE</b> EDGE MARKING <b>EQ.</b> EQUAL <b>EW.</b> EXHAUST <b>EXT.</b> EXTERIOR <b>EX.</b> EACH WAY <b>FAU.</b> FORGED AIR UNIT <b>F.G.</b> FINISH GRADE <b>F.G.</b> FUEL GAS <b>F.N.</b> FINISH <b>FN.FL.</b> FINISH FLOOR <b>F.J.</b> FLOOR JOIST <b>FL.</b> FLOOR <b>FLOR.</b> FLOURESCENT <b>F.M.C.</b> FLOOR MATERIAL <b>CHANGE</b> CHANGE <b>F.N.</b> FIELD MARKING <b>FOUND.</b> FOUNDATION <b>F.O.C.</b> FACE OF CURB <b>F.O.M.</b> FACE OF MASONRY <b>F.O.S.</b> FACE OF STUDS <b>F.F.</b> FRENCH DOOR <b>FTG.</b> FOOTING</p>	<p><b>GA.</b> GAUGE <b>GALV.</b> GALVANIZED <b>G.D.</b> GYPSUM BOARD <b>G.D.</b> GARBAGE DISPOSAL <b>GAUGE DOOR</b> GAUGE DOOR <b>OP.</b> OPERATOR <b>G.F.I.</b> GROUND-FAULT <b>CIRCUIT-INT.</b> INTERRUPTER <b>G.I.</b> GALVANIZED IRON <b>GL.</b> GLASS <b>GRD.</b> GROUND <b>GRND.</b> GROUND <b>GYP.</b> GYPSUM <b>G.L.B.</b> GLEUELAMINATED <b>BEAM</b> BEAM <b>H.D.</b> HOLLOW TRUSS <b>H.C.</b> HOLLOW CORE <b>H.O.</b> HOLD DOWN ANCHOR <b>HDR.</b> HEADER <b>HET.</b> HANGER <b>HNGR.</b> HANGER <b>INSUL.</b> INSULATION <b>INT.</b> INTERIOR <b>LAV.</b> LAVATORY <b>LAM.</b> LAMINATED <b>L.F.</b> LINEAL FEETFOOT <b>L.L.</b> LOG LIGHTER <b>LUM.</b> LUMINOUS <b>LVR.</b> LAMBER <b>MAR.</b> MARBLE <b>M.C.</b> MAXIMUM <b>M.B.</b> MACHINE BOLT <b>M.C.</b> MEDICINE CABINET <b>MFR.</b> MANUFACTURER <b>MIN.</b> MINIMUM <b>M.L.</b> MICRO LAM <b>M.D.</b> MASONRY OPENING <b>MTD.</b> MOUNTED <b>MTL.</b> METAL <b>N.G.</b> NATURAL GRADE <b>NOT IN CONTRACT</b> NOT IN CONTRACT <b>NOM.</b> NOMINAL <b>N.T.S.</b> NOT TO SCALE <b>O.</b> OVER <b>O.A.</b> OVER ALL <b>OSB.</b> OSB/CD <b>O.C.</b> OR TO CENTER <b>O.H.</b> OVERHEAD <b>OPENING</b> OPENING <b>OSA.</b> OUTSIDE AIR <b>GRAINER STRAND</b> GRAINER STRAND <b>BOARD</b> BOARD <b>P.C.B.</b> PUSH BUTTON <b>P.C.</b> PORTLAND CEMENT <b>P.C.</b> FULL CHAIN <b>P.C.E.</b> PEG <b>PH.</b> PHONE <b>P.L.T.</b> PLASTER <b>PL.</b> PLASTER <b>PLYWD.</b> PLYWOOD <b>PR.</b> PAIR <b>PSF.</b> POUNDS/SQUARE FOOT <b>PSI.</b> POUNDS/SQUARE INCH <b>PARALLAM</b> PARALLAM <b>P.T.D.F.</b> PRESSURE <b>TREATED</b> TREATED <b>DOUGLAS FIR</b> DOUGLAS FIR <b>PVC</b> POLY VINYL CHLORIDE</p>	<p><b>R.</b> RISER <b>RAD.</b> RADIAL/RADIUS <b>R.A.S.</b> RETURN AIR GRILLE <b>RECFP.</b> RECEPTACLE <b>REF.</b> REFERENCE <b>REFR.</b> REFRIGERATOR <b>REIN.</b> REINFORCING <b>RES.</b> RE-SAWN <b>REV.</b> REVISION <b>R.V.</b> ROOF JOIST <b>ROUN.</b> ROUGH <b>ROOF OPENING</b> ROOF JOIST <b>R.O.S.</b> ROUGH SAWS <b>R.R.</b> ROOF RAFTER <b>RWD.</b> REDWOOD <b>S.</b> SINK <b>S.C.</b> SOLID CORE <b>SCHEDULE</b> SCHEDULE <b>SCRND.</b> SCREENED <b>SEC.</b> SECTION <b>SEL.</b> SELECT <b>SEL.STR.</b> SELECT <b>SER.</b> SERVICE <b>SINGLE HUNG</b> SINGLE HUNG <b>SHT.</b> SHEET <b>SHTNG.</b> SHEATHING <b>SHWR.</b> SHOWER <b>SL.</b> SLIDING <b>SPN.</b> SPLASH <b>SPL.</b> SILL PLATE NAILING <b>S.P.F.</b> SILL PLATE <b>S.S.</b> SERVICE SINK <b>STD.</b> STANDARD <b>S.V.</b> STREET VINYL <b>STRUCT.</b> STRUCTURAL <b>SW.</b> SWITCH <b>T.B.</b> TOP &amp; BOTTOM <b>T.C.</b> TEMPERED GLASS <b>T&amp;G</b> TONGUE &amp; GROOVE <b>T.O.J.</b> TRUSS JOIST <b>T.O.P.</b> TOP OF CURB <b>T.O.M.</b> TOP OF MASONRY <b>T.O.W.</b> TOP OF WALL <b>TV.</b> TELEVISION <b>UNFIN.</b> UNFINISHED <b>UNR.</b> UNRAISED <b>UNLESS NOTED</b> UNLESS NOTED <b>OTHERWISE</b> OTHERWISE <b>VAN.</b> VANITY <b>VEN.</b> VENER <b>VERT.</b> VERTICAL <b>V.G.</b> VERTICAL GRAIN <b>V.B.</b> VAPOR BARRIER <b>V.P.</b> VAPORRRROOF <b>W.</b> WASHER <b>W.</b> WITH <b>W.C.</b> WATER CLOSET <b>WOOD</b> WOOD <b>WINDOW</b> WINDOW <b>W.H.</b> WATER HEATER <b>W/O.</b> WITHOUT <b>WP.</b> WEATHER PROOF <b>W/R.</b> WAREHOUSE <b>WT.</b> WEIGHT</p>	<p><b>REGULATORY REQUIREMENTS:</b> 1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, LAWS AND REGULATIONS GOVERNING CONSTRUCTION, BUILDING ACCESS, AND THE USE OF FACILITIES. THIS INCLUDES THE 2022 CALIFORNIA BUILDING CODE &amp; ALL CODES, ORDINANCES AND LAWS ADOPTED BY THE CITY OF SANTA CLARA, CA. 2. THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION (AIA DOCUMENT A201 2007 EDITION), GOVERNS THIS WORK U.O.N. 3. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL CONTRACT DOCUMENTS AND FIELD CONDITIONS AND SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES, OMISSIONS OR INCONSISTENCIES IN THE CONTRACT DOCUMENTS PRIOR TO BEGINNING WORK. 4. ALL MECHANICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2022 CALIFORNIA MECHANICAL CODE OR OVERRIDING LOCAL MECHANICAL CODES. 5. ALL PLUMBING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2022 CALIFORNIA PLUMBING CODE OR OVERRIDING LOCAL PLUMBING CODES. 6. ALL ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2022 CALIFORNIA ELECTRICAL CODE OR OVERRIDING LOCAL ELECTRICAL CODES. 7. ALL SHEET METAL WORK AND FLASHING SHALL CONFORM TO S.M.A.C.N.A. STANDARDS. 8. CITY AMENDMENTS: CITY OF SANTA CLARA CODE. 9. ALL BUILDING STANDARDS CONSTRUCTION MATERIALS AND PRODUCTS SHALL CONFORM TO THE MOST CURRENT STANDARDS AND DETAILS AS OUTLINED IN THE SPECIFICATIONS, EXCEPT AS EXPLICITLY SUPERSEDED HEREIN.</p> <p><b>SUBSTITUTIONS:</b> 1. REQUEST FOR SUBSTITUTION WILL BE RECEIVED FROM THE GENERAL CONTRACTOR ONLY. 2. PRODUCTS IN THE CONSTRUCTION DOCUMENTS IDENTIFIED BY NAME, BRAND OR MODEL OF A MANUFACTURER'S ARTICLE SHALL BE PROVIDED UNLESS A WRITTEN REQUEST FOR SUBSTITUTION IS ACCEPTED BY THE ARCHITECT. IN THE EVENT THAT THE CONTRACTOR MAKES A SUBSTITUTION WITHOUT PRIOR APPROVAL FROM THE ARCHITECT, THE CONTRACTOR SHALL BE REQUIRED TO REMOVE THE SUBSTITUTION AND REPLACE IT PER SPECIFICATIONS WITHOUT ANY ADJUSTMENT TO THE CONTRACT AMOUNT OR TIME. 3. THE PRODUCTS DESCRIBED IN THE CONSTRUCTION DOCUMENTS ESTABLISH A STANDARD OF REQUIRED FUNCTION, DIMENSION, APPEARANCE, AND QUALITY TO BE MET BY ANY PROPOSED SUBSTITUTION. THE BURDEN OF PROOF OF THE MERIT OF THE PROPOSED SUBSTITUTION IS UPON THE PROPOSER. THE OWNER'S DECISION OF THE APPROVAL OR DISAPPROVAL SHALL BE FINAL. 4. THE REQUEST SHALL INCLUDE ANY CHANGE REQUIRED IN OTHER ELEMENTS OF THE WORK DUE TO THE SUBSTITUTION.</p> <p><b>SUBMITTALS:</b> 1. SCHEDULE SUBMITTALS TO EXPEDITE PROJECT AS TO CAUSE NO DELAY IN THE WORK OR IN THE WORK OF THE OWNER OR ANY SEPARATE CONTRACTOR. SUBMITTALS NOT SPECIFICALLY REQUESTED SHALL BE RETURNED WITHOUT REVIEW. 2. SHOP DRAWINGS SHALL BE DRAWN AT A SCALE SUFFICIENT FOR CLARITY AND COORDINATION AND SHALL SHOW NECESSARY WORKING AND ERECTION DIMENSIONS. 3. CIRCLE ALL DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS AND PROVIDE A BRIEF WRITTEN EXPLANATION TO CLARIFY AND SUPPORT REASONS FOR PROPOSED DEVIATION. 4. THE CONTRACTOR SHALL PROVIDE THE OWNER A PROJECT SCHEDULE OUTLINING THE WORK TO OCCUR, AND THE MATERIALS BEING ORDERED ON A PROJECT BASIS PRIOR TO BEGINNING THE PROJECT. 5. THE CONTRACTOR SHALL ALLOW 5 DAYS FOR ARCHITECT AND OWNER TO REVIEW SUBMITTALS. 6. ALL SUBMITTALS SHALL BE ACCOMPANIED BY A LETTER OF SUBMITTAL. THIS LETTER SHALL BE REVIEWED AND APPROVED BY GENERAL CONTRACTOR PRIOR TO BEING SENT TO ARCHITECT AND OWNER FOR REVIEW. 7. SUBMITTALS SENT FOR ARCHITECT AND OWNER REVIEW THAT DO NOT HAVE THE STAMP OF THE GENERAL CONTRACTOR WILL BE RETURNED WITHOUT REVIEW.</p> <p><b>PROTECTIONS:</b> 1. BY ACCEPTING THESE DRAWINGS THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE SAFETY CONDITIONS FOR ALL PERSONS AND PROPERTY. CONTINUOUSLY DURING CONSTRUCTION OF THIS PROJECT, AND NOT LIMITED TO NORMAL WORKING HOURS. 2. THE CONTRACTOR SHALL PROTECT NEW AND EXISTING WORK, EQUIPMENT, MATERIALS AND FINISHES. DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED AT THE EXPENSE OF THE GENERAL CONTRACTOR. 3. THE CONTRACTOR SHALL AT ALL TIMES DURING THE COURSE OF THE CONTRACT KEEP THE BUILDING, THE OWNER'S PREMISES AND THE ADJOINING PREMISES, INCLUDING STREETS AND OTHER AREAS ASSIGNED TO, OR USED BY THE CONTRACTOR, FREE FROM ACCUMULATIONS OF WASTE, MATERIALS AND RUBBISH CAUSED BY HIS EMPLOYEES. SUBCONTRACTORS OR THEIR WORK. 4. CONTRACTOR SHALL VERIFY LOCATION OF TRANSFORMERS AND UNDERGROUND UTILITIES WITH APPLICABLE UTILITY COMPANIES. 5. CONTRACTOR SHALL PROTECT FROM DAMAGE AND KEEP CLEAN ALL COMMON AREAS OF THE PROJECT.</p> <p><b>PERFORMANCE REQUIREMENTS:</b> 1. DO NOT SCALE DRAWINGS. 2. ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED AND CHECKED BY THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS PRIOR TO BEGINNING WORK AND PRIOR TO ORDERING ANY MATERIALS, ANY ERRORS, OMISSIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE GENERAL CONTRACTOR. SHOULD THERE BE ANY DISCREPANCIES, ERRORS OR OMISSIONS IN THESE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND WANT TO RECEIVE WRITTEN INSTRUCTIONS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. 3. THESE DRAWINGS AND SPECIFICATIONS ARE DIVIDED INTO SECTIONS FOR CONVENIENCE ONLY. CONTRACTORS, SUBCONTRACTORS, AND MATERIAL SUPPLIERS SHALL REFER TO ALL RELEVANT SECTIONS IN ORDERING AND PERFORMING THEIR WORK, AND SHALL BE RESPONSIBLE FOR ALL ASPECTS OF THEIR WORK REGARDLESS OF WHERE THE INFORMATION OCCURS ON THE DRAWINGS. 4. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH THE WORK OF OTHER SUBCONTRACTORS. SUBCONTRACTORS SHALL VERIFY THAT ANY WORK RELATED TO THEIR WORK MUST BE PROVIDED BY OTHERS, HAS BEEN COMPLETED AND IS ADEQUATE PRIOR TO COMMENCING THEIR WORK. 5. PROVIDE STRUCTURAL BRACING FOR ALL WALL MOUNTED EQUIPMENT. 6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, COORDINATION, AND EXECUTION OF CONSTRUCTION MEANS, METHODS AND PROCEDURES. 7. PATCH AND REPAIR ALL DISTURBED AREAS TO MATCH ADJACENT SYSTEMS, MATERIALS, AND FINISHES, UNLESS OTHERWISE NOTED. 8. INSTALL ALL MATERIALS AND EQUIPMENT AS PER MANUFACTURERS WRITTEN RECOMMENDATIONS. 9. ALL INTERIOR DIMENSIONS SHOWN IN FLOOR PLANS ARE FACE OF FINISH U.O.N. 10. ALL EXTERIOR DIMENSIONS ARE SHOW FACE OF FRAMING, U.O.N. 11. DETAILS SHOWN ARE TYPICAL. SIMILAR DETAILS APPLY IN SIMILAR CONDITIONS. 12. ALL GLAZING SUBJECT TO HUMAN CONTACT SHALL BE 1/4" TEMPERED GLASS UNLESS OTHERWISE NOTED. 13. CONTRACTOR SHALL FURNISH AND INSTALL ALL DOORS COMPLETE WITH ALL HARDWARE AS REQUIRED BY CODE AND/OR SPECIFIC INSTALLATION. 14. FIRE EXTINGUISHERS SHALL BE LOCATED ACCORDING TO CODE REQUIREMENTS AND MEET ALL APPLICABLE CODES. 15. WHERE NEW WALLS ADJACENT TO EXISTING WALLS, RESULTANT WALL SURFACES SHALL FORM A SMOOTH AND CONTINUOUS PLANE. 16. AT THE COMPLETION OF THE WORK THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE PREMISES AND THE PROGRESS ALL MILLWORK AND DEBRIS, AND CLEAN ALL NEW WORK TO THE OWNER'S SATISFACTION, INCLUDING BUT NOT LIMITED TO CLEANING INTERIOR GLASS, CLEANING ALL MILLWORK, INSIDE AND OUTSIDE OF CABINETS, AND CLEANING AND WAXING FLOORS. 17. ALL BUILDING MATERIALS SHALL BE THE MOST NONTOXIC AND THE LOWEST POLLUTING AVAILABLE. THE BUILDING SHALL BE VENTILATED DURING CONSTRUCTION. 18. CONTRACTOR SHALL REFER TO ALL RELEVANT SECTIONS IN ORDERING AND PERFORMING THEIR WORK, AND SHALL BE RESPONSIBLE FOR ALL ASPECTS OF THEIR WORK REGARDLESS OF WHERE THE INFORMATION OCCURS ON THE DRAWINGS. 19. NAIL UP ALL BOXES FOR REVIEW PRIOR TO WIRING. VERIFY ALL LOCATIONS OF POWER OUTLETS, PHONE JACKS, TV, LIGHT FIXTURES AND SWITCHES W/ OWNER PRIOR TO WIRING. 20. CONTRACTOR SHALL PROVIDE SAMPLES OF ALL MATERIALS (INCLUDING BUT NOT LIMITED TO: TILE, TILE TRIM, PAINT, ROOFING, SIDING, WOOD TRIM, WOOD BASE, COUNTERTOPS AND HARDWARE) TO THE OWNER FOR APPROVAL PRIOR TO ORDERING MATERIALS. 21. THE CONTRACTOR SHALL VERIFY THESE WEIGHS PRIOR TO COVER UP OF THE SPECIAL WIRING REQUIREMENTS SUCH AS ALARMS AND STEREO SYSTEMS. 22. A MINIMUM OF 80 PERCENT OF WASTE GENERATED AT THE SITE IS DIVERTED TO RECYCLE OR SALVAGE. 23. AN OPERATION AND MAINTENANCE MANUAL SHALL BE PROVIDED TO THE BUILDING OCCUPANT OR OWNER. DEFINITIONS: "TYPICAL" MEANS IDENTICAL FOR ALL SIMILAR CONDITIONS, U.O.N. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. "ALIG" MEANS TO ACCURATELY LOCATE FINISHES IN THE SAME PLANE. 24. BUILDING ADDRESS: TO BE POSTED IN A CONSPICUOUS PLACE AND LIGHTED EXTERNALLY. NUMBERS SHALL BE OF CONTRASTING COLOR TO BACKGROUND COLOR.</p>	<p><b>LOCAL JURISDICTION:</b> CITY OF SANTA CLARA, CA <b>ASSESSOR'S PARCEL NUMBER:</b> 284-31-024 <b>PROJECT ADDRESS:</b> 462 MURIEL COURT SANTA CLARA, CA 95051 <b>ZONING:</b> R1-4L - SINGLE FAMILY <b>OCCUPANCY GROUP:</b> R-1 SINGLE FAMILY RESIDENTIAL <b>CONSTRUCTION TYPE:</b> TYPE V-B (NON-SPRINKLERED) <b>NO. OF STORES:</b> EXISTING - 2 STORY PROPOSED - 2 STORY <b>AREA:</b> LOT SIZE / AREA: 10,248 SF <b>EXISTING</b> E) FIRST FLOOR 1,638 SF E) SECOND FLOOR 774 SF E) 2x2x8 GARAGE 458 SF 2,869 SF <b>PROPOSED</b> FIRST FLOOR 2,229 SF SECOND FLOOR 1,045 SF 2x2x8 GARAGE 458 SF 3,732 SF <b>FAR EXISTING HOUSE:</b> 28% <b>FAR PROPOSED HOUSE:</b> 36.4%</p>	<p><b>DEVELOPMENT REVIEW 4/14/2023</b></p> <p><b>DEVELOPMENT REVIEW 4/14/2023</b></p>																																																	
<p><b>SAFETY:</b> THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY PRECAUTIONS OR SAFETY PROGRAMS USED TO PROVIDE A SAFE WORKING ENVIRONMENT ON THE JOB SITE.</p> <p><b>CONSTRUCTION EXECUTION:</b> EACH CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, TRANSPORTATION, AND EQUIPMENT NECESSARY TO PERFORM ALL WORK UNDER HIS TRADE IN FULL ACCORDANCE WITH THE WORKING DRAWINGS, SPECIFICATIONS AND CONTRACTS.</p> <p><b>JOB SITE CONDITIONS:</b> EACH CONTRACTOR SHALL CLEAN UP AND REMOVE ALL DEBRIS RESULTING FROM HIS WORK PRIOR TO SUBMITTING REQUEST FOR PROGRESS PAYMENT. NO CASES WILL FINAL PAYMENT BE ISSUED TO EITHER THE PRIME CONTRACTOR OR ANY SUB-CONTRACTOR UNTIL ALL DEBRIS AND EQUIPMENT OWNED BY SAID CONTRACTORS, HAS BEEN REMOVED FROM THIS PROJECT SITE OR UNTIL OWNER APPROVAL HAS BEEN GRANTED.</p> <p><b>THE RESPONSIBLE PARTY:</b> EITHER THE PROJECT OWNER OR THIS SIGNED DESIGNER, SHALL BE NOTIFIED OF ERRORS OR OMISSIONS FOR CORRECTIONS BEFORE PROCEEDING WITH THE WORK.</p> <p><b>STORAGE:</b> MATERIALS STORED ON SITE SHALL BE PROTECTED FROM DAMAGE BY MOISTURE, WIND, SUN, ABUSE OR ANY OTHER HARMFUL AFFECTS.</p> <p><b>CHANGES:</b> ANY MINOR OR REQUIRED CHANGES OR MODIFICATIONS TO THIS PLAN DO NOT REDUCE OR VOID THE COPYRIGHTS COVERING THIS SET OF PLANS IN ANY WAY. MODIFICATIONS TO THIS PLAN FOR ANY REASON, SHOULD BE ATTEMPTED BY AND ARCHITECT OR ENGINEER ONLY. DESIGNER ACCEPTS NO RESPONSIBILITY FOR THE QUALITY AND COMPLETENESS OF ANY CHANGES ATTEMPTED.</p> <p><b>MATERIALS:</b> ALL MATERIALS, SUPPLIES AND EQUIPMENT SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PER APPLICABLE CODES AND REQUIREMENTS. THE DESIGNER SHALL HAVE NO CONTROL, OR CHANGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNOLOGIES, SEQUENCES, OR PROCEDURES IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.</p>				<p><b>ARCHITECTURAL</b></p> <table border="1"> <thead> <tr> <th>A0.1</th> <th>PROJECT DATA AND INFORMATION</th> <th>X</th> </tr> </thead> <tbody> <tr> <td>A0.2</td> <td>CAL GREEN REQUIREMENTS</td> <td>X</td> </tr> <tr> <td>A0.3</td> <td>CAL GREEN REQUIREMENTS</td> <td>X</td> </tr> <tr> <td>A0.4</td> <td>MF-1R MANDATORY RESIDENTIAL</td> <td>X</td> </tr> <tr> <td>A1.1</td> <td>EXISTING SITE PLAN</td> <td>X</td> </tr> <tr> <td>A1.2</td> <td>PROPOSED SITE PLAN</td> <td>X</td> </tr> <tr> <td>A1.3</td> <td>EXISTING AREA VS. PROPOSED AREA</td> <td>X</td> </tr> <tr> <td>A2.1</td> <td>EXISTING FIRST FLOOR</td> <td>X</td> </tr> <tr> <td>A2.2</td> <td>PROPOSED FIRST FLOOR</td> <td>X</td> </tr> <tr> <td>A2.3</td> <td>EXISTING SECOND FLOOR</td> <td>X</td> </tr> <tr> <td>A2.4</td> <td>PROPOSED SECOND FLOOR</td> <td>X</td> </tr> <tr> <td>A3.2</td> <td>PROPOSED ROOF PLAN</td> <td>X</td> </tr> <tr> <td>A4.1</td> <td>EXISTING EXTERIOR ELEVATIONS</td> <td>X</td> </tr> <tr> <td>A4.2</td> <td>EXISTING EXTERIOR ELEVATIONS</td> <td>X</td> </tr> <tr> <td>A4.3</td> <td>PROPOSED EXTERIOR ELEVATIONS</td> <td>X</td> </tr> <tr> <td>A4.4</td> <td>PROPOSED EXTERIOR ELEVATIONS</td> <td>X</td> </tr> </tbody> </table> <p><b>CODE REFERENCE</b></p> <p>ALL CONSTRUCTION SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE FOLLOWING 2022 CALIFORNIA BUILDING STANDARDS CODE, IBC, TITLE 24: <b>APPLICABLE BUILDING CODES:</b> 2022 CALIFORNIA BUILDING CODE (CBC) 2022 CALIFORNIA MECHANICAL CODE (CMC) 2022 CALIFORNIA PLUMBING CODE (CPC) 2022 CALIFORNIA ELECTRICAL CODE (CEC) 2022 CALIFORNIA ENERGY CODE 2022 CALIFORNIA FIRE CODE 2022 CALIFORNIA GREEN BUILDING CODE 2022 CALIFORNIA STANDARDS CODE 2022 CALIFORNIA RESIDENTIAL CODE <b>CITY AMENDMENTS:</b> CITY OF SANTA CLARA CODE</p> <p><b>SCOPE OF WORK</b></p> <p>ADDITION TO AND REMOVE THE EXISTING HOUSE AT THE FIRST FLOOR AND SECOND FLOOR LEVELS.</p>	A0.1	PROJECT DATA AND INFORMATION	X	A0.2	CAL GREEN REQUIREMENTS	X	A0.3	CAL GREEN REQUIREMENTS	X	A0.4	MF-1R MANDATORY RESIDENTIAL	X	A1.1	EXISTING SITE PLAN	X	A1.2	PROPOSED SITE PLAN	X	A1.3	EXISTING AREA VS. PROPOSED AREA	X	A2.1	EXISTING FIRST FLOOR	X	A2.2	PROPOSED FIRST FLOOR	X	A2.3	EXISTING SECOND FLOOR	X	A2.4	PROPOSED SECOND FLOOR	X	A3.2	PROPOSED ROOF PLAN	X	A4.1	EXISTING EXTERIOR ELEVATIONS	X	A4.2	EXISTING EXTERIOR ELEVATIONS	X	A4.3	PROPOSED EXTERIOR ELEVATIONS	X	A4.4	PROPOSED EXTERIOR ELEVATIONS	X	<p><b>GENERAL NOTES LEGEND</b></p> <p>KEY NOTE REFERENCE</p> <p>REVISION</p> <p>CENTERLINE</p> <p>EXISTING FULL HEIGHT WALL</p> <p>PROPOSED FULL HEIGHT WALL</p> <p>DETAIL OR PLAN ENLARGEMENT</p> <p>DETAIL NUMBER SHEET NUMBER</p> <p>SECTION REFERENCE SECTION NUMBER SHEET NUMBER</p> <p>INTERIOR ELEVATION REFERENCE SHEET NUMBER ELEVATION NUMBER</p> <p>KITCHEN [20x8 SF] ROOM NAME AND SQUARE FOOTAGE</p> <p>DETAIL NUMBER SHEET NUMBER</p> <p>COLUMN LINES</p>	<p><b>REFERENCE MAP</b></p> <p>PROJECT SITE</p>
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**BUSHELL RESIDENCE**  
462 MURIEL COURT  
SANTA CLARA, CA 95051



# 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

## RESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)



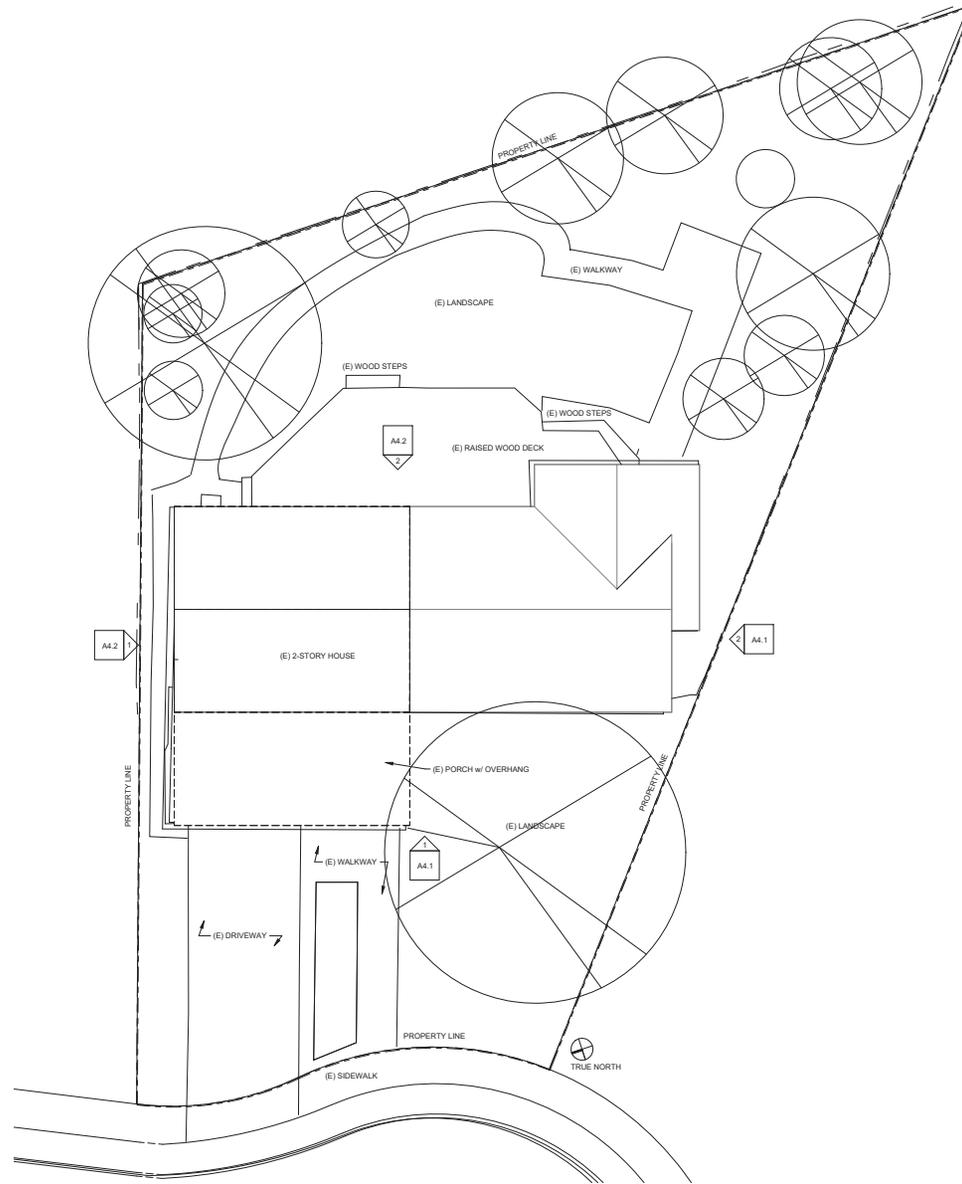
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<p><b>MAXIMUM INCREMENTAL REACTIVITY (MIR).</b> The maximum change in weight of ozone formed by adding a compound to the "Base Reactant Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundredths of a gram (g) (7)(b) (ROG).</p> <p>Note: MIR values for individual compounds and hydrocarbon solvents are specified in CCR, Title 17, Sections 94700 and 94810.</p> <p><b>MOISTURE CONTENT.</b> The weight of the water in wood expressed as percentage of the weight of the oven-dry wood.</p> <p><b>PRODUCT-WEIGHTED MIR (PWMIIR).</b> The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).</p> <p>Note: PWMIIR is calculated according to equations found in CCR, Title 17, Section 94521 (a).</p> <p><b>REACTIVE ORGANIC COMPOUND (ROC).</b> Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.</p> <p><b>VOC.</b> Available 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 oxygen, nitrogen and other elements. See CCR Title 17, Section 94500(a).</p> <p><b>4.503 FIRE PLACES</b></p> <p><b>4.503.1 GENERAL.</b> Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplace shall comply with applicable local ordinances.</p> <p><b>4.504 POLLUTANT CONTROL</b></p> <p><b>4.504.1 COVERING OF DUCT OPENINGS &amp; PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.</b> At the time of rough installation, during installation in the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of water, dust or debris which may enter the system.</p> <p><b>4.504.2 FINISH MATERIAL POLLUTANT CONTROL.</b> Finish materials shall comply with this section.</p> <p><b>4.504.2.1 Adhesives, Sealants and Caulks.</b> Adhesives, sealant and caulk used on the project shall meet the requirements of the following standards unless more stringent local or regional air quality management district rules apply:</p> <ol style="list-style-type: none"> <li>1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with the following Suggested Control Measures, as shown in Table 4.504.3, unless more stringent local rules applicable or SCAQMD Rule 1168 VOC limits, as shown in Table 4.504.1 or 4.504.2, as applicable. Such products shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (bisphenol, ethylene dichloride, methylene chloride, perchloroethylene and xylene), except for approved products, as specified in the table.</li> <li>2. Approved 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 50% solids) 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.</li> </ol> <p><b>4.504.2.2 Paints and Coatings.</b> Architectural paints and coatings shall comply with VOC limits in Table 1 of the AIR RESOURCES Suggested Control Measures, as shown in Table 4.504.3, unless more stringent local rules apply. The VOC content limit for coatings that do not meet the definitions for 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 Measures, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 4.504.3 shall apply.</p> <p><b>4.504.2.3 Aerosol Paints and Coatings.</b> Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROG in Section 94520(a) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94520(a)(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 percentVOC by weight of product limits of Regulation 17.1.4.2.</p> <p><b>4.504.2.4 Verification.</b> 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:</p> <ol style="list-style-type: none"> <li>1. Manufacturer's product specification.</li> <li>2. Field verification of on-site product containers.</li> </ol>	<p><b>TABLE 4.504.1 - ADHESIVE VOC LIMITS</b> (Less Water and Less Exempt Compounds in Grams per Liter)</p> <table border="1"> <thead> <tr> <th>ARCHITECTURAL APPLICATIONS</th> <th>VOC LIMIT</th> </tr> </thead> <tbody> <tr><td>INDOOR CARPET ADHESIVES</td><td>50</td></tr> <tr><td>CARPET PAD ADHESIVES</td><td>50</td></tr> <tr><td>OUTDOOR CARPET ADHESIVES</td><td>150</td></tr> <tr><td>WOOD FLOORING ADHESIVES</td><td>100</td></tr> <tr><td>RUBBER FLOOR ADHESIVES</td><td>60</td></tr> <tr><td>SUBFLOOR ADHESIVES</td><td>50</td></tr> <tr><td>CERAMIC TILE ADHESIVES</td><td>65</td></tr> <tr><td>VCT &amp; ASPHALT TILE ADHESIVES</td><td>50</td></tr> <tr><td>DRYWALL &amp; PANEL ADHESIVES</td><td>50</td></tr> <tr><td>COVE BASE ADHESIVES</td><td>50</td></tr> <tr><td>MULTIPURPOSE CONSTRUCTION ADHESIVE</td><td>70</td></tr> <tr><td>STRUCTURAL GLAZING ADHESIVES</td><td>100</td></tr> <tr><td>SINGLE-PLY ROOF MEMBRANE ADHESIVES</td><td>250</td></tr> <tr><td>OTHER ADHESIVES NOT LISTED</td><td>50</td></tr> <tr><td><b>SPECIALTY APPLICATIONS</b></td><td></td></tr> <tr><td>PVC WELDING</td><td>510</td></tr> <tr><td>CPVC WELDING</td><td>100</td></tr> <tr><td>ABS WELDING</td><td>325</td></tr> <tr><td>PLASTIC CEMENT WELDING</td><td>250</td></tr> <tr><td>ADHESIVE PRIMER FOR PLASTIC</td><td>500</td></tr> <tr><td>CONTACT ADHESIVE</td><td>80</td></tr> <tr><td>SPECIAL PURPOSE CONTACT ADHESIVE</td><td>250</td></tr> <tr><td>STRUCTURAL WOOD MEMBER ADHESIVE</td><td>140</td></tr> <tr><td>TOP &amp; TRIM ADHESIVE</td><td>250</td></tr> <tr><td><b>SUBSTRATE SPECIFIC APPLICATIONS</b></td><td></td></tr> <tr><td>METAL TO METAL</td><td>50</td></tr> <tr><td>PLASTIC FOAMS</td><td>50</td></tr> <tr><td>POROUS MATERIAL (EXCEPT WOOD)</td><td>50</td></tr> <tr><td>WOOD</td><td>30</td></tr> <tr><td>FIBERGLASS</td><td>80</td></tr> </tbody> </table> <p>* IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.</p> <p>1. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.</p>	ARCHITECTURAL APPLICATIONS	VOC LIMIT	INDOOR CARPET ADHESIVES	50	CARPET PAD ADHESIVES	50	OUTDOOR CARPET ADHESIVES	150	WOOD FLOORING ADHESIVES	100	RUBBER FLOOR ADHESIVES	60	SUBFLOOR ADHESIVES	50	CERAMIC TILE ADHESIVES	65	VCT & ASPHALT TILE ADHESIVES	50	DRYWALL & PANEL ADHESIVES	50	COVE BASE ADHESIVES	50	MULTIPURPOSE CONSTRUCTION ADHESIVE	70	STRUCTURAL GLAZING ADHESIVES	100	SINGLE-PLY ROOF MEMBRANE ADHESIVES	250	OTHER ADHESIVES NOT LISTED	50	<b>SPECIALTY APPLICATIONS</b>		PVC WELDING	510	CPVC WELDING	100	ABS WELDING	325	PLASTIC CEMENT WELDING	250	ADHESIVE PRIMER FOR PLASTIC	500	CONTACT ADHESIVE	80	SPECIAL PURPOSE CONTACT ADHESIVE	250	STRUCTURAL WOOD MEMBER ADHESIVE	140	TOP & TRIM ADHESIVE	250	<b>SUBSTRATE SPECIFIC APPLICATIONS</b>		METAL TO METAL	50	PLASTIC FOAMS	50	POROUS MATERIAL (EXCEPT WOOD)	50	WOOD	30	FIBERGLASS	80
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THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT EDITIONS IN THIS TABLE.</li> <li>2. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.</li> </ol>	SEALANTS	VOC LIMIT	ARCHITECTURAL	250	MARINE DECK	760	NONMEMBRANE ROOF	300	ROADWAY	250	SINGLE-PLY ROOF MEMBRANE	450	OTHER	420	ARCHITECTURAL	VOC LIMIT	NON-POROUS	250	POROUS	775	MODIFIED BITUMINOUS	500	MARINE DECK	760	OTHER	750	COATING CATEGORY	VOC LIMIT	FLAT COATINGS	50	NON-FLAT COATINGS	100	NONFLAT-HIGH GLOSS COATINGS	150	<b>SPECIALTY COATINGS</b>		ALUMINUM ROOF COATINGS	400	BASEMENT SPECIALTY COATINGS	400	BITUMINOUS ROOF COATINGS	50	BITUMINOUS ROOF PRIMERS	350	BOND BREAKERS	350	CONCRETE CURING COMPOUNDS	350	CONCRETE/MASONRY SEALERS	100	DRIVEWAY SEALERS	50	DRY GFO COATINGS	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	LOW SOLIDS COATINGS	120	MAGNETITE 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	RECYCLED COATINGS	250	ROOF COATINGS	50	RUST PREVENTATIVE COATINGS	250	SHELLAC	730	CLEAR	550	OPALQUE	550	<b>SPECIALTY PRIMERS, SEALERS &amp; UNDERCOATERS</b>		STAINS	250	STONE CONSOLIDANTS	420	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	<p><b>TABLE 4.504.5 - FORMALDEHYDE LIMITS</b> (MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION)</p> <table border="1"> <thead> <tr> <th>PRODUCT</th> <th>CURRENT LIMIT</th> </tr> </thead> <tbody> <tr><td>HARDWOOD FLYWOOD KNEER CORE</td><td>0.05</td></tr> <tr><td>HARDWOOD FLYWOOD COMPOSITE CORE</td><td>0.05</td></tr> <tr><td>PARTICLE BOARD</td><td>0.09</td></tr> <tr><td>MEDIUM DENSITY FIBERBOARD</td><td>0.11</td></tr> <tr><td>THIN MEDIUM DENSITY FIBERBOARD</td><td>0.13</td></tr> </tbody> </table> <ol style="list-style-type: none"> <li>1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM 1531. ADDITIONAL INFORMATION, SEE CALIF. CODE OF REGULATIONS TITLE 17, SECTIONS 93120 THROUGH 93120.12.</li> <li>2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).</li> </ol> <p><b>DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)</b></p> <p><b>4.504.3 CARPET SYSTEMS.</b> Carpeting interior shall meet the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).</p> <p>See California Department of Public Health's website for certification programs and testing labs. <a href="https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx">https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx</a>.</p> <p><b>4.504.3.1 Carpet cushion.</b> All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).</p> <p>See California Department of Public Health's website for certification programs and testing labs. <a href="https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx">https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx</a>.</p> <p><b>4.504.3.2 Carpet adhesives.</b> All carpet adhesives shall meet the requirements of Table 4.504.1.</p> <p><b>4.504.4 RESILIENT FLOORING SYSTEMS.</b> Where resilient flooring is installed at least 80% of floor area requiring resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).</p> <p>See California Department of Public Health's website for certification programs and testing labs. <a href="https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx">https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx</a>.</p> <p><b>4.504.5 COMPOSITE WOOD PRODUCTS.</b> Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ASHRAE 62.1 Table C-100 Control Measures for Composite Wood (17 CFR 93120.12) by or before the dates specified in those sections, as shown in Table 4.504.5.</p> <p><b>4.504.5.1 Documentation.</b> Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:</p> <ol style="list-style-type: none"> <li>1. Product certifications and specifications.</li> <li>2. Field verification of on-site product containers.</li> </ol> <p>Note: Product certifications, including the Composite Wood Products regulation (see CCR, Title 17, Section 93120.12) shall be verified by the manufacturer, the California Green Building Wood Association, the Australian AS/NZS 2289, European EN 338 standards, and Canadian CSA 0121, CSA 0191, CSA 0193 and CSA 0265 standards. Other methods acceptable to the enforcing agency.</p> <p><b>4.505 INTERIOR MOISTURE CONTROL</b></p> <p><b>4.505.1 General.</b> Buildings shall meet or exceed the provisions of the California Building Standards Code.</p> <p><b>4.505.2 CONCRETE SLAB FOUNDATIONS.</b> Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.</p> <p><b>4.505.2.1 Capillary break.</b> A capillary break shall be installed in compliance with at least one of the following:</p> <ol style="list-style-type: none"> <li>1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curing, shall be used. The finished floor surface, see American Concrete Institute, ACI 302.2R-06.</li> <li>2. Other equivalent methods approved by the enforcing agency.</li> <li>3. A slab design specified by a licensed design professional.</li> </ol> <p><b>4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS.</b> Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19% moisture content. Moisture content shall be verified in compliance with the following:</p> <ol style="list-style-type: none"> <li>1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.</li> <li>2. Moisture readings shall be taken at a total 2 feet (610 mm) to 4 feet (1219 mm) from the grade standard end of each piece verified.</li> <li>3. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.</li> </ol> <p>Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applimentation products shall follow the manufacturers' drying recommendations prior to enclosure.</p> <p><b>4.506 INDOOR AIR QUALITY AND EXHAUST</b></p> <p><b>4.506.1 Bathroom exhaust fans.</b> Each bathroom shall be mechanically ventilated and shall comply with the following:</p> <ol style="list-style-type: none"> <li>1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.</li> <li>2. Unless functioning as a component of a whole house ventilation system, fans shall be controlled by humidity control.</li> <li>3. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may be manual or automatic, means of adjustment.</li> <li>4. A humidity control may be a separate component to the exhaust fan and is not required to be integral (i.e., built-in).</li> </ol> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. For the purpose of this section, a bathroom is a room which contains a bathtub, shower or lightweight combination.</li> <li>2. Lighting integral to bathroom exhaust fans shall comply with the California Energy Code.</li> </ol> <p><b>4.507 ENVIRONMENTAL COMFORT</b></p> <p><b>4.507.1 HEATING AND AIR-CONDITIONING SYSTEM DESIGN.</b> Heating and air conditioning systems shall be sized, designed and have their equipment selected using the following methods:</p> <ol style="list-style-type: none"> <li>1. 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SEALANTS	VOC LIMIT																																																																																																																																
ARCHITECTURAL	250																																																																																																																																
MARINE DECK	760																																																																																																																																
NONMEMBRANE ROOF	300																																																																																																																																
ROADWAY	250																																																																																																																																
SINGLE-PLY ROOF MEMBRANE	450																																																																																																																																
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BOND BREAKERS	350																																																																																																																																
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FORM-RELEASE COMPOUNDS	250																																																																																																																																
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500																																																																																																																																
HIGH TEMPERATURE COATINGS	420																																																																																																																																
INDUSTRIAL MAINTENANCE COATINGS	250																																																																																																																																
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MULTICOLOR COATINGS	250																																																																																																																																
PRETREATMENT WASH PRIMERS	420																																																																																																																																
PRIMERS, SEALERS, & UNDERCOATERS	100																																																																																																																																
REACTIVE PENETRATING SEALERS	350																																																																																																																																
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<p><b>CHAPTER 7 INSTALLER &amp; SPECIAL INSPECTOR QUALIFICATIONS</b></p> <p><b>702 QUALIFICATIONS</b></p> <p><b>702.1 INSTALLER TRAINING.</b> HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:</p> <ol style="list-style-type: none"> <li>1. State certified apprenticeship programs.</li> <li>2. Public utility training programs.</li> <li>3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.</li> <li>4. Programs sponsored by manufacturing organizations.</li> <li>5. Other programs acceptable to the enforcing agency.</li> </ol> <p><b>702.2 SPECIAL INSPECTION [HCO].</b> 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 education 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:</p> <ol style="list-style-type: none"> <li>1. Certification by a national or regional green building program or standard publisher.</li> <li>2. Certification by a statewide energy consulting or verification organization, such as HERI raters, building performance contractors, and home energy auditors.</li> <li>3. Successful completion of a third party experience training program in the appropriate trade.</li> <li>4. Other programs acceptable to the enforcing agency.</li> </ol> <p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.</li> <li>2. HERI raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).</li> </ol> <p>[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 duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate education 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 certification from a recognized 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.</p> <p>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.</p> <p><b>703 VERIFICATIONS</b></p> <p><b>703.1 DOCUMENTATION.</b> Documentation used to show compliance with this code shall include but is not limited to construction documents, plans, specification, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identifier applicable checklist.</p>	<p><b>TABLE 4.504.5 - FORMALDEHYDE LIMITS</b> (MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION)</p> <table border="1"> <thead> <tr> <th>PRODUCT</th> <th>CURRENT LIMIT</th> </tr> </thead> <tbody> <tr><td>HARDWOOD FLYWOOD KNEER CORE</td><td>0.05</td></tr> <tr><td>HARDWOOD FLYWOOD COMPOSITE CORE</td><td>0.05</td></tr> <tr><td>PARTICLE BOARD</td><td>0.09</td></tr> <tr><td>MEDIUM DENSITY FIBERBOARD</td><td>0.11</td></tr> <tr><td>THIN MEDIUM DENSITY FIBERBOARD</td><td>0.13</td></tr> </tbody> </table> <ol style="list-style-type: none"> <li>1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIF. AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM 1531. ADDITIONAL INFORMATION, SEE CALIF. 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THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16" (8 MM).</li> </ol> <p><b>DIVISION 4.5 ENVIRONMENTAL QUALITY (continued)</b></p> <p><b>4.504.3 CARPET SYSTEMS.</b> Carpeting interior shall meet the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).</p> <p>See California Department of Public Health's website for certification programs and testing labs. <a href="https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx">https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx</a>.</p> <p><b>4.504.3.1 Carpet cushion.</b> All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).</p> <p>See California Department of Public Health's website for certification programs and testing labs. <a href="https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx">https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx</a>.</p> <p><b>4.504.3.2 Carpet adhesives.</b> All carpet adhesives shall meet the requirements of Table 4.504.1.</p> <p><b>4.504.4 RESILIENT FLOORING SYSTEMS.</b> Where resilient flooring is installed at least 80% of floor area requiring resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350).</p> <p>See California Department of Public Health's website for certification programs and testing labs. <a href="https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx">https://www.cdph.ca.gov/Programs/CCDCID/DCDC/DE/ID/DCDC/Pages/VOC.aspx</a>.</p> <p><b>4.504.5 COMPOSITE WOOD PRODUCTS.</b> Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ASHRAE 62.1 Table C-100 Control Measures for Composite Wood (17 CFR 93120.12) by or before the dates specified in those sections, as shown in Table 4.504.5.</p> <p><b>4.504.5.1 Documentation.</b> Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:</p> <ol style="list-style-type: none"> <li>1. Product certifications and specifications.</li> <li>2. Field verification of on-site product containers.</li> </ol> <p>Note: Product certifications, including the Composite Wood Products regulation (see CCR, Title 17, Section 93120.12) shall be verified by the manufacturer, the California Green Building Wood Association, the Australian AS/NZS 2289, European EN 338 standards, and Canadian CSA 0121, CSA 0191, CSA 0193 and CSA 0265 standards. 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Documentation shall include at least one of the following:</p> <ol style="list-style-type: none"> <li>1. Product certifications and specifications.</li> <li>2. Field verification of on-site product containers.</li> </ol> <p>Note: Product certifications, including the Composite Wood Products regulation (see CCR, Title 17, Section 93120.12) shall be verified by the manufacturer, the California Green Building Wood Association, the Australian AS/NZS 2289, European EN 338 standards, and Canadian CSA 0121, CSA 0191, CSA 0193 and CSA 0265 standards. Other methods acceptable to the enforcing agency.</p> <p><b>4.505 INTERIOR MOISTURE CONTROL</b></p> <p><b>4.505.1 General.</b> Buildings shall meet or exceed the provisions of the California Building Standards Code.</p> <p><b>4.505.2 CONCRETE SLAB FOUNDATIONS.</b> Concrete slab foundations required to have a vapor retarder by California Building Code, Chapter 19, or concrete slab-on-ground floors required to have a vapor retarder by the California Residential Code, Chapter 5, shall also comply with this section.</p> <p><b>4.505.2.1 Capillary break.</b> A capillary break shall be installed in compliance with at least one of the following:</p> <ol style="list-style-type: none"> <li>1. A 4-inch (101.6 mm) thick base of 1/2 inch (12.7mm) or larger clean aggregate shall be provided with a vapor barrier in direct contact with concrete and a concrete mix design, which will address bleeding, shrinkage, and curing, shall be used. The finished floor surface, see American Concrete Institute, ACI 302.2R-06.</li> <li>2. Other equivalent methods approved by the enforcing agency.</li> <li>3. A slab design specified by a licensed design professional.</li> </ol> <p><b>4.505.3 MOISTURE CONTENT OF BUILDING MATERIALS.</b> Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19% moisture content. Moisture content shall be verified in compliance with the following:</p> <ol style="list-style-type: none"> <li>1. Moisture content shall be determined with either a probe-type or contact-type moisture meter. Equivalent moisture verification methods may be approved by the enforcing agency and shall satisfy requirements found in Section 101.8 of this code.</li> <li>2. Moisture readings shall be taken at a total 2 feet (610 mm) to 4 feet (1219 mm) from the grade standard end of each piece verified.</li> <li>3. At least three random moisture readings shall be performed on wall and floor framing with documentation acceptable to the enforcing agency provided at the time of approval to enclose the wall and floor framing.</li> </ol> <p>Insulation products which are visibly wet or have a high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. Wet-applimentation products shall follow the manufacturers' drying recommendations prior to enclosure.</p> <p><b>4.506 INDOOR AIR QUALITY AND EXHAUST</b></p> <p><b>4.506.1 Bathroom exhaust fans.</b> Each bathroom shall be mechanically ventilated and shall comply with the following:</p> <ol style="list-style-type: none"> <li>1. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.</li> <li>2. Unless functioning as a component of a whole house ventilation system, fans shall be controlled by humidity control.</li> <li>3. Humidity controls shall be capable of adjustment between a relative humidity range less than or equal to 50% to a maximum of 80%. A humidity control may be manual or automatic, means of adjustment.</li> <li>4. A humidity control may be a separate component to the</li></ol>	PRODUCT	CURRENT LIMIT	HARDWOOD FLYWOOD KNEER CORE	0.05	HARDWOOD FLYWOOD COMPOSITE CORE	0.05	PARTICLE BOARD	0.09	MEDIUM DENSITY FIBERBOARD	0.11	THIN MEDIUM DENSITY FIBERBOARD	0.13
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**BUSHELL RESIDENCE**

462 MURIEL COURT  
SANTA CLARA, CA 95051

REVISION No.	Description	Date

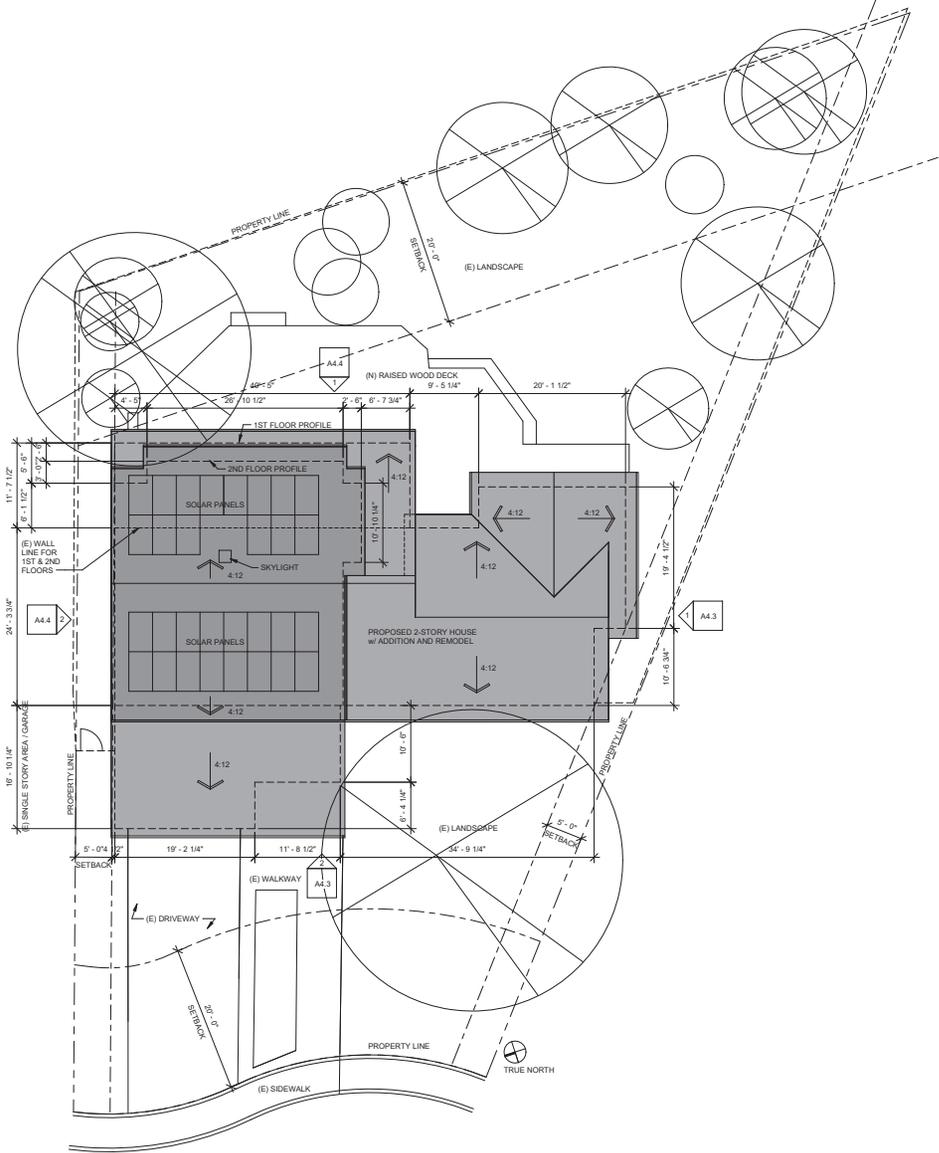
DAVID PROJECT NUMBER  
**2003**

DATE  
**4/14/2023**

ISSUE  
**DEVELOPMENT REVIEW**

SHEET TITLE  
**EXISTING SITE PLAN**

SHEET NO.  
**A1.1**



**BUSHELL RESIDENCE**

462 MUIREL COURT  
SANTA CLARA, CA 95051

REVISION No.	Description	Date

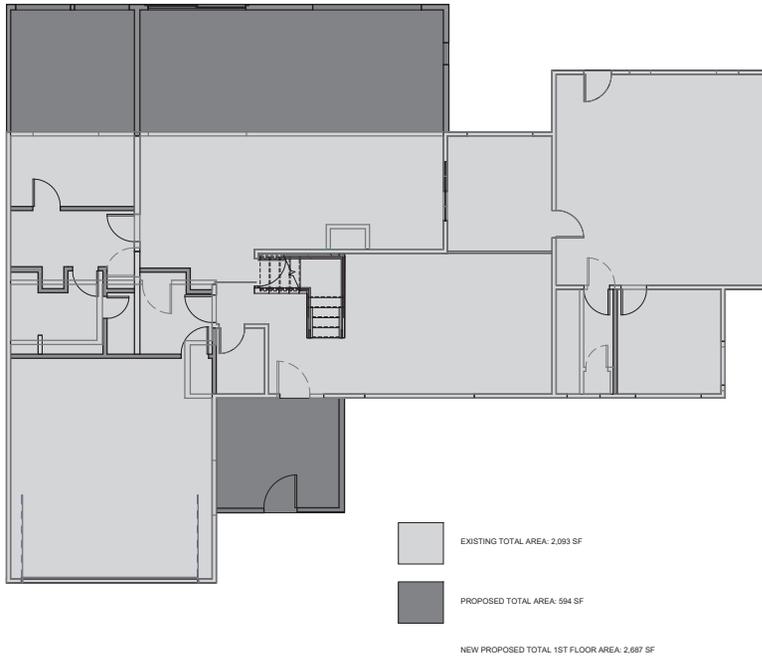
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**2003**

DATE  
**4/14/2023**

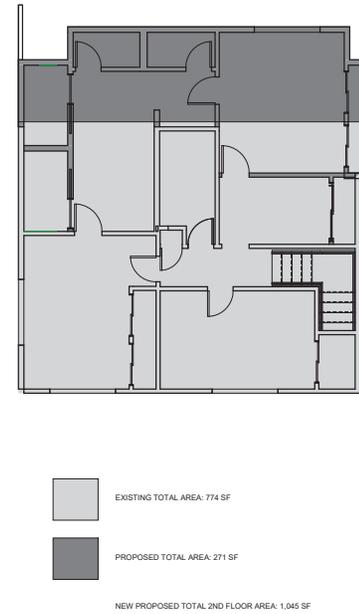
ISSUE  
**DEVELOPMENT REVIEW**

SHEET TITLE  
**PROPOSED SITE PLAN**

SHEET NO.  
**A1.2**



EXISTING VS. PROPOSED AREA - LEVEL  
①  
3/16" = 1'-0"



EXISTING VS. PROPOSED AREA - LEVEL  
②  
3/16" = 1'-0"

**BUSHELL RESIDENCE**

462 MURIEL COURT  
SANTA CLARA, CA 95051

REVISION No.	Description	Date

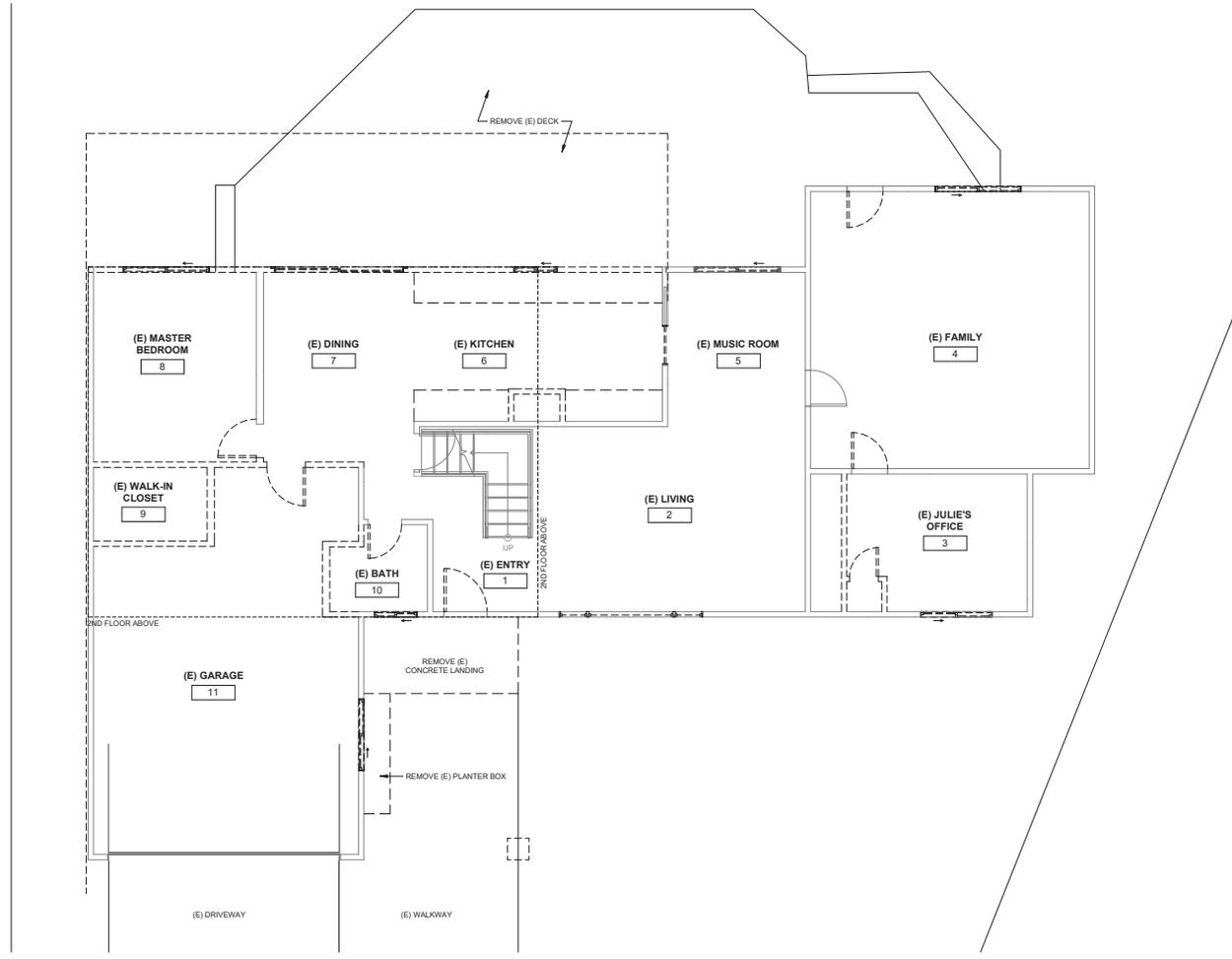
DAVID PROJECT NUMBER  
2003

DATE  
4/14/2023

ISSUE  
DEVELOPMENT REVIEW

SHEET TITLE  
EXISTING AREA VS.  
PROPOSED AREA

SHEET NO.  
A1.3



LEVEL 1  
1/4" = 1'-0"

**BUSHELL RESIDENCE**

462 MURIEL COURT  
SANTA CLARA, CA 95051

REVISION No.	Description	Date

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2003

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ISSUE  
DEVELOPMENT REVIEW

SHEET TITLE  
EXISTING FIRST FLOOR

SHEET NO.  
A2.1



**BUSHELL RESIDENCE**

462 MUIREL COURT  
SANTA CLARA, CA 95051

REVISION No.	Description	Date

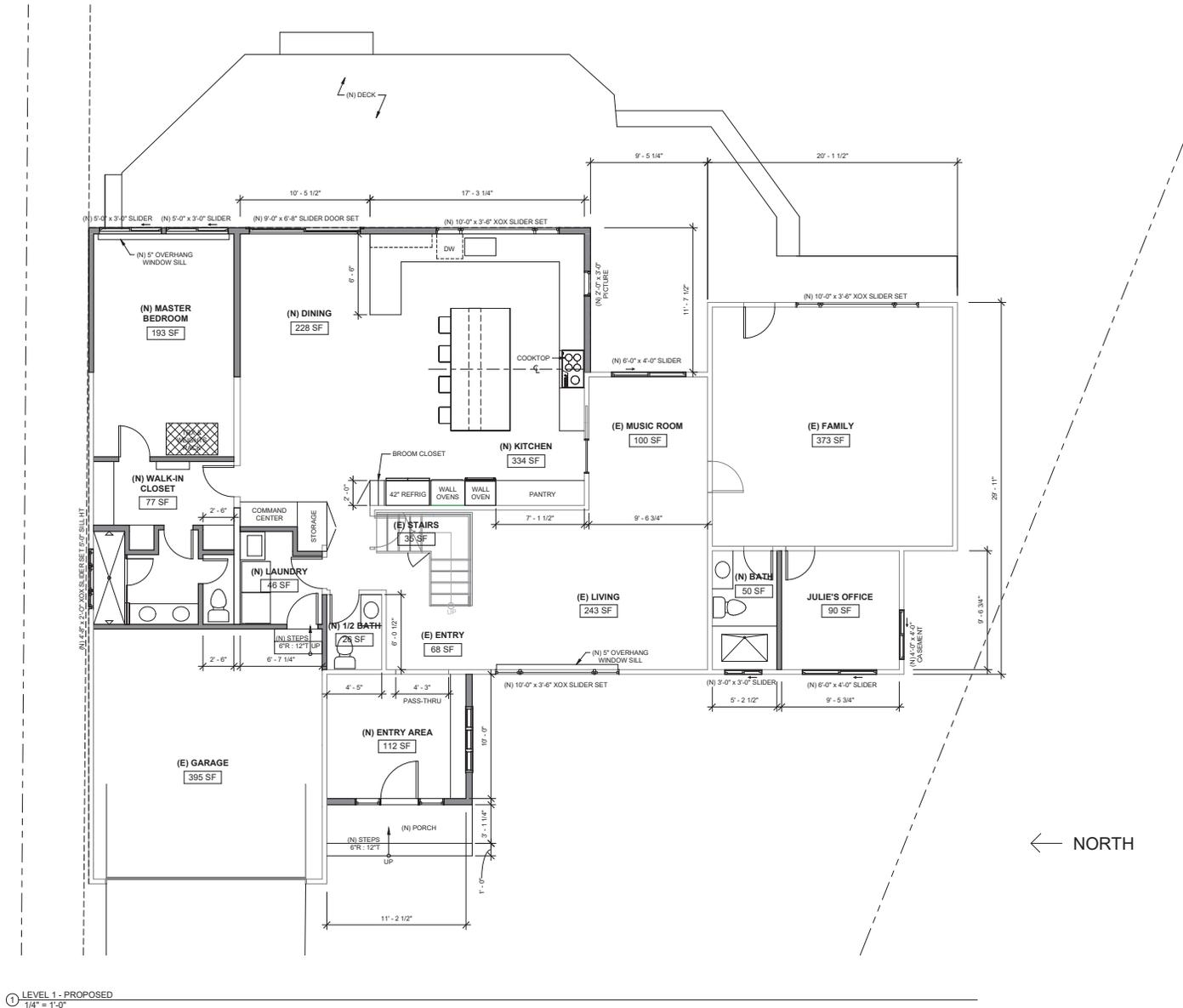
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2003

DATE  
4/14/2023

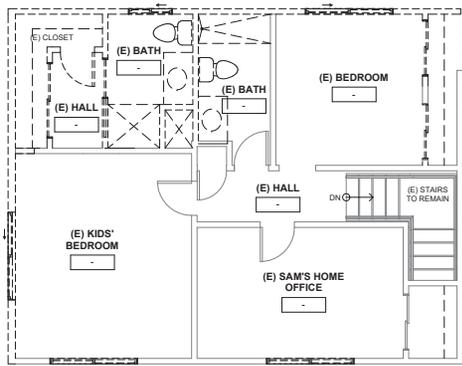
ISSUE  
DEVELOPMENT REVIEW

SHEET TITLE  
PROPOSED FIRST FLOOR

SHEET NO.  
A2.2



① LEVEL 1 - PROPOSED  
1/4" = 1'-0"



① LEVEL 2 - EXISTING  
1/4" = 1'-0"

**BUSHELL RESIDENCE**

462 MURIEL COURT  
SANTA CLARA, CA 95051

REVISION No.	Description	Date

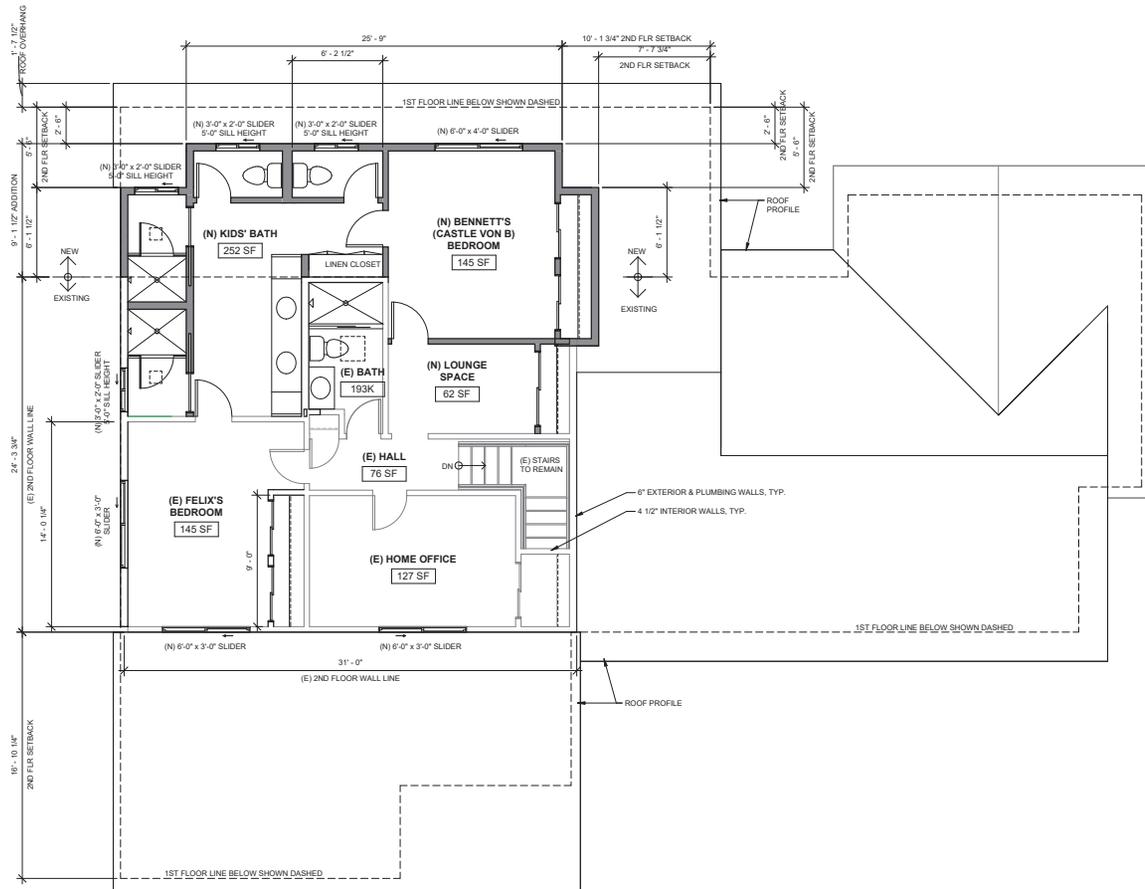
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2003

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4/14/2023

ISSUE  
DEVELOPMENT REVIEW

SHEET TITLE  
EXISTING SECOND FLOOR

SHEET NO.  
A2.3



① LEVEL 2  
1/4" = 1'-0"

**BUSHELL RESIDENCE**

462 MURIEL COURT  
SANTA CLARA, CA 95051

REVISION No.	Description	Date

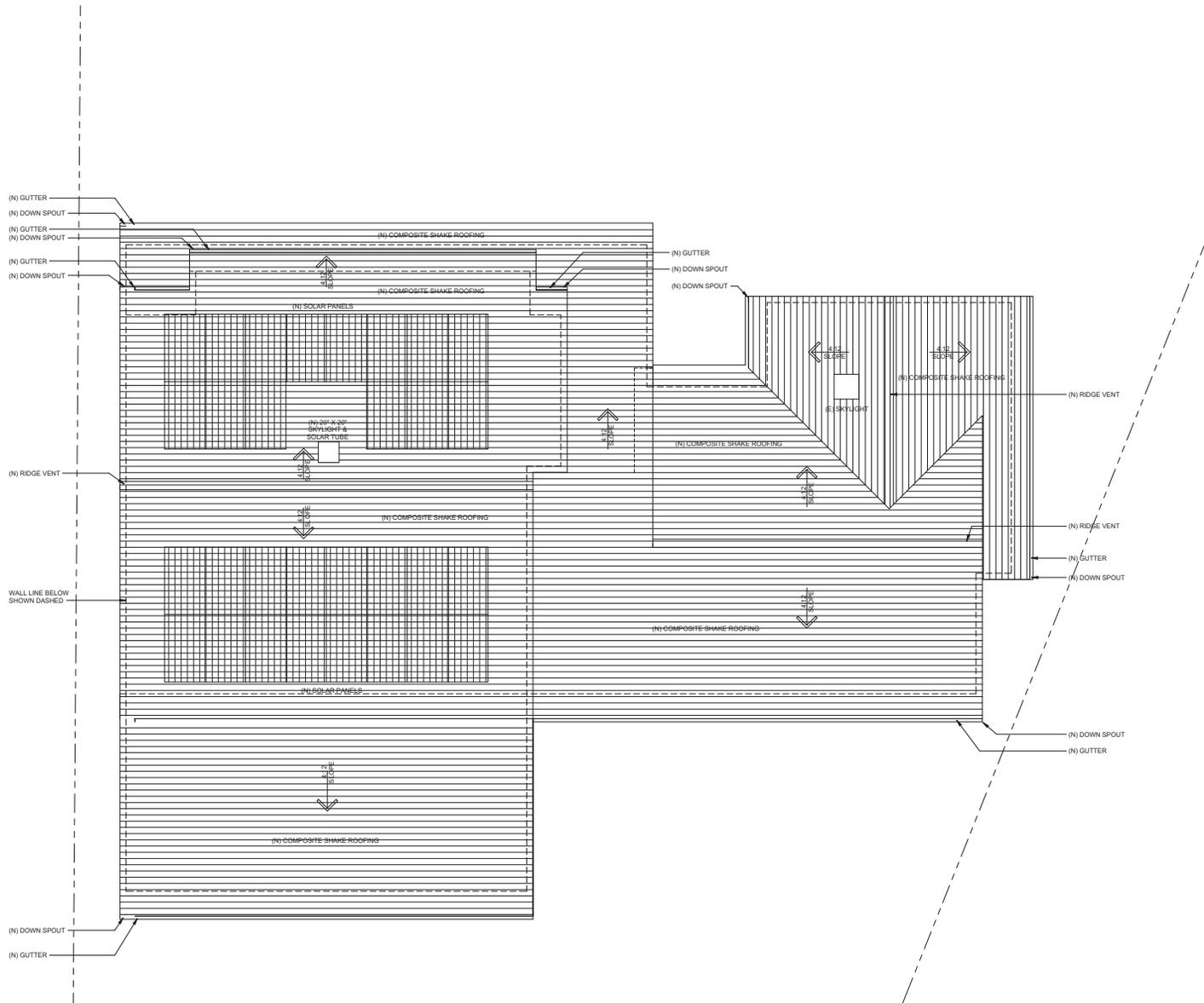
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**2003**

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**4/14/2023**

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**DEVELOPMENT REVIEW**

SHEET TITLE  
**PROPOSED SECOND FLOOR**

SHEET NO.  
**A2.4**



1 PROPOSED ROOF PLAN  
1/4" = 1'-0"



**BUSHELL RESIDENCE**

462 MURIEL COURT  
SANTA CLARA, CA 95051

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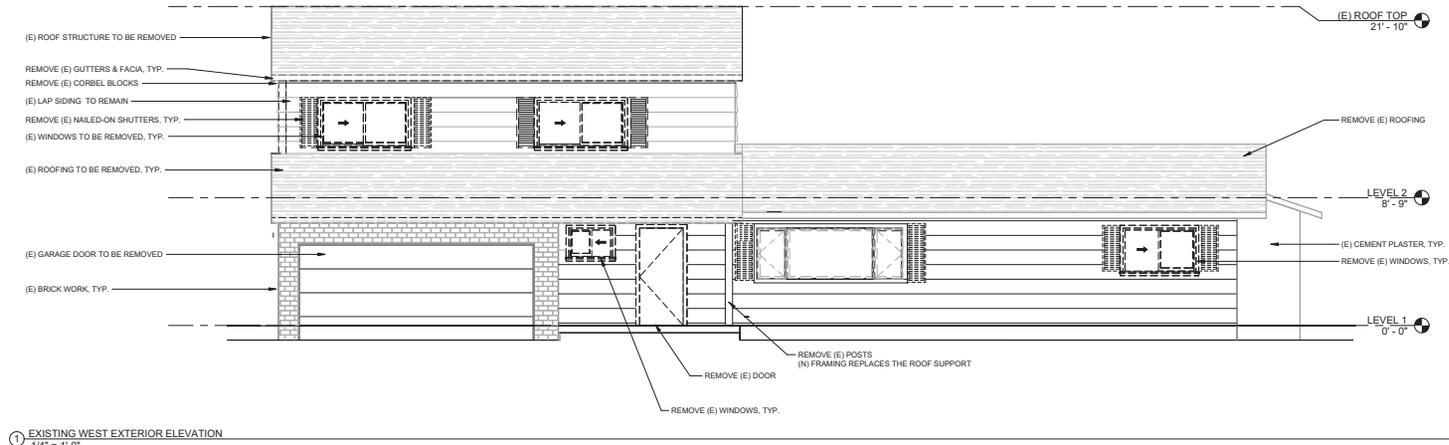
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**2003**

DATE  
**4/14/2023**

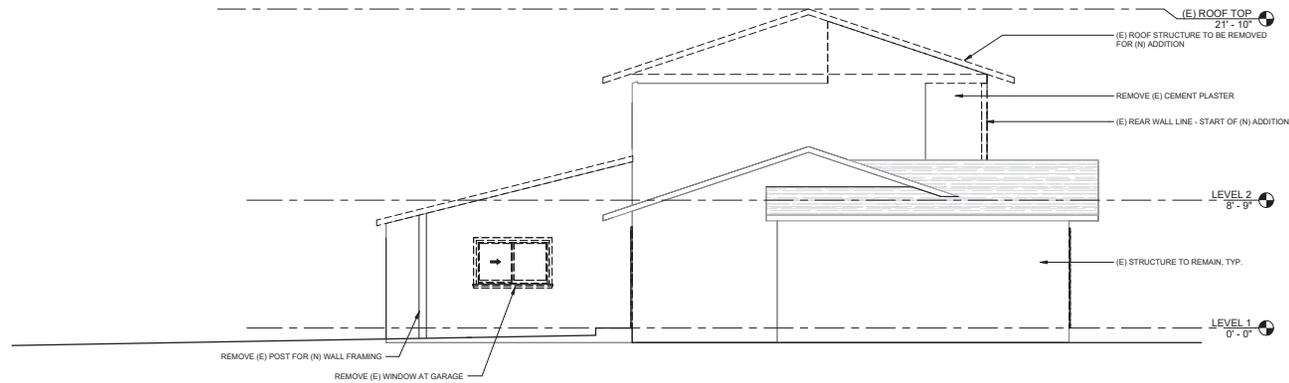
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**DEVELOPMENT REVIEW**

SHEET TITLE  
**PROPOSED ROOF PLAN**

SHEET NO.  
**A3.2**



① EXISTING WEST EXTERIOR ELEVATION  
1/4" = 1'-0"



② EXISTING SOUTH EXTERIOR ELEVATION  
1/4" = 1'-0"

**BUSHELL RESIDENCE**

462 MURIEL COURT  
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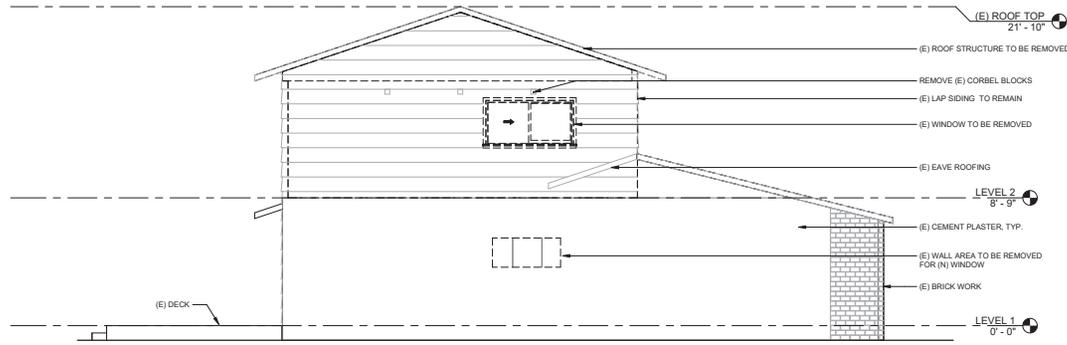
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DATE  
4/14/2023

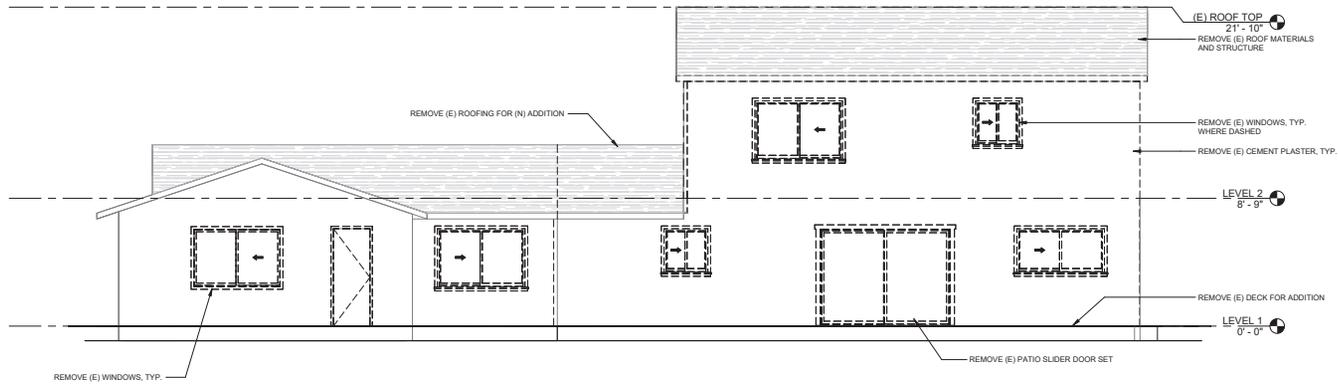
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SHEET TITLE  
EXISTING EXTERIOR ELEVATIONS

SHEET NO.  
A4.1



① EXISTING NORTH EXTERIOR ELEVATION  
1/4" = 1'-0"



② EXISTING EAST EXTERIOR ELEVATION  
1/4" = 1'-0"

**BUSHELL RESIDENCE**

462 MURIEL COURT  
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DAVID PROJECT NUMBER  
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DATE  
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SHEET TITLE  
EXISTING EXTERIOR ELEVATIONS

SHEET NO.

**A4.2**



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SANTA CLARA, CA 95051

REVISION No.	Description	Date

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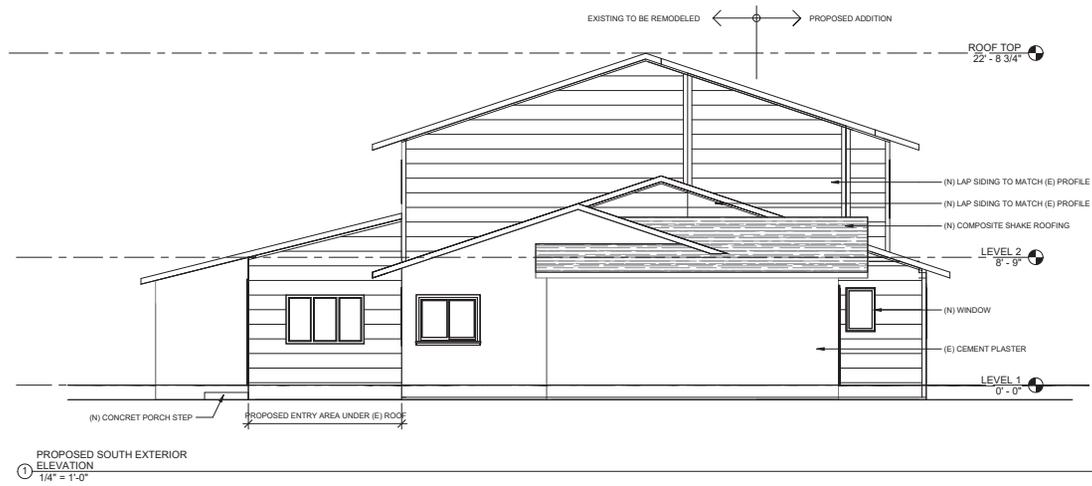
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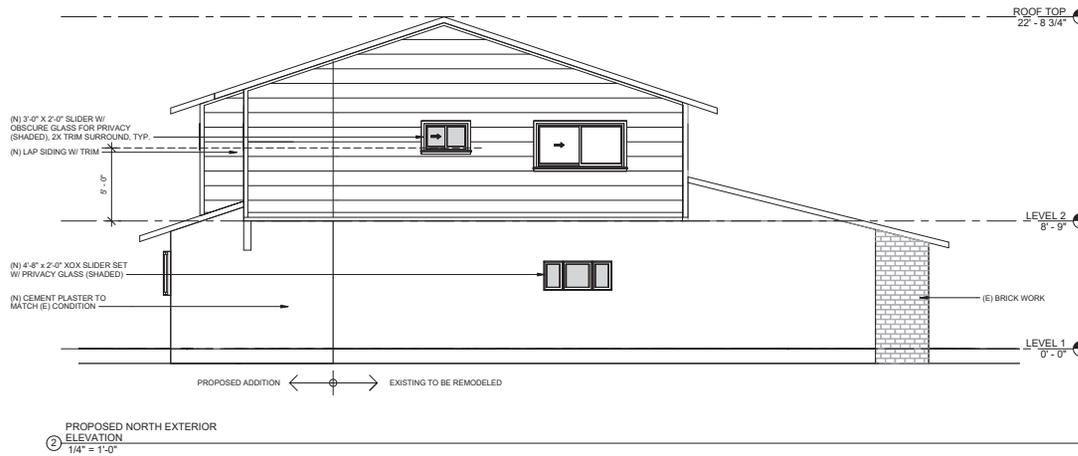
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SHEET TITLE  
**PROPOSED EXTERIOR ELEVATIONS**

SHEET NO.  
**A4.3**

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REVISION No.	Description	Date

DATE PROJECT NUMBER  
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4/14/2023

ISSUE  
DEVELOPMENT REVIEW

SHEET TITLE  
PROPOSED EXTERIOR ELEVATIONS

SHEET NO.  
A4.4