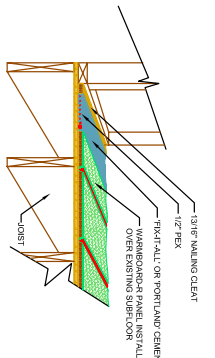
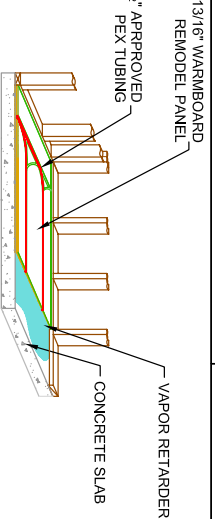
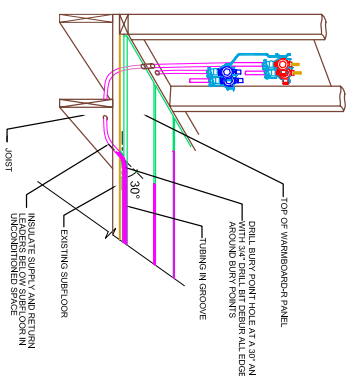
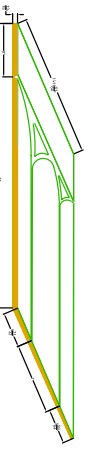
 <p>1 - WARMBOARD-R OVER EXISTING STRUCTURAL SUBFLOOR</p>	 <p>3 - PANEL CUT BACK DETAIL NO SCALE</p>
 <p>2 - WARMBOARD REMODEL PANEL OVER SLAB</p>	 <p>BURY POINT DETAIL SCALE: NONE</p>
<div><div>RS</div><div>STRAIGHT PANEL</div></div> <div><div>RT</div><div>RIGHT TURN PANEL</div></div> <div><div>RP</div><div>OSB PANEL</div></div> <div><div>PR</div></div>	<div><div>WARMBOARD REMODEL PANEL SPECIFICATIONS</div><div><div>A. GENERAL INFORMATION</div><div><div>1. Warmboard Radiant Remodel panel is manufactured in the USA, and supplied by: Warmboard Inc., 8035 Soquel Drive, Ste 41A Aptos, CA 95003 877-338-5493</div><div>2. Warmboard Remodel panels shall be 2'x4' OSB with a thickness of 13/16\".</div><div>WB-R Panels shall be consisting of straights and turns patterns, such channels on 12\" centers to interface with 1/2\" PEX tubing.</div><div>The entire top skin (2'x4') of OSB panel shall have a highly conductive continuous sheet of 1080 series aluminum alloy, bonded to the entire surface.</div><div>The continuous sheet of aluminum shall completely contour in all channels depths: both turns and straight runs.</div><div>Warmboard Remodel Panels shall be (2'x4') in one of the two tubing channel pattern options: - Straight and Turns - (See Detail BB.)</div><div>3. All panels installed will meet or exceed all specifications documented on Warmboard engineered AutoCAD drawings and Warmboard Remodel Installation manual.</div><div>4. Panel assembly shall be one of the following:</div><div>Warmboard Remodel panel installed over existing structural plywood, decking or OSB subfloor. (See Detail 1)</div><div>Warmboard Remodel panel installed over concrete slab (See Detail 2)</div></div></div><div><div>B - WARMBOARD REMODEL PANEL DETAIL</div><div>SCALE: NONE</div></div></div>
<div><div>WARMBOARD-R INSTALLATION NOTES - MANDATORY:</div><p>The contractor(s) responsible for the installation of the Warmboard-R panels, as well as any hydronic tubing supplied by other, shall review these plans for accuracy and completeness. These contractors will also be responsible to verify all measurements prior to any Warmboard-R installations. Any discrepancy between these plans and the existing framing of the project for which they apply shall be brought to the immediate attention of Warmboard, Inc.</p><div><div>WHEN IN DOUBT, ASK!</div><p>Please review all installation instructions. If there are any questions or need for technical assistance call: 1 877-338-5493</p></div><div><div>TO ORDER PRODUCT PLEASE CALL: 1-877-338-5493</div></div></div> <div><div>A. GENERAL INFORMATION</div><div><div>1. WARMBOARD-R IS ONE COMPONENT OF A HYDRONIC SYSTEM. THIS CONCEPTUAL PLAN COVERS ONLY PANEL AND TUBING LAYOUTS AND DOES NOT CONSTITUTE A COMPLETE INSTALLATION GUIDE FOR A HYDRONIC SYSTEM. Installation of a hydronic system employing Warmboard-R panels requires a combination of carpentry and plumbing skills and should be installed by a professional hydronic contractor. Warmboard, Inc. does not warrant or guarantee the performance of the hydronic system installed by its contractors. Warmboard, Inc. refers to Architectural Floor Plan information supplied by the customer. Deviations should be brought to the immediate attention of Warmboard, Inc. The hydronic contractor shall follow the tubing layout plan and tubing installation instructions supplied. They shall also be responsible for providing an accurate heat loss analysis and the installation of the hydronic system as a whole in accordance with Radiant Panel Association (RPA) guidelines. Design floor and supply water temperatures for a given floor covering will follow RPA guidelines and the Warmboard, Inc. recommended water temperatures chart.</div><div>2. It is the installer's responsibility to assure the system functions properly, safely, and meets all local, state, and regional codes.</div><div>3. The installer is to supply and install all materials shown on this plan, as well as all other materials needed to complete this hydronic system and any incidental work not shown or specified, which can be reasonably inferred as belonging to the work necessary to provide the complete system.</div><div>4. Warmboard, Inc. makes no guarantee for any material to be installed in this hydronic system other than the Warmboard-R panels.</div></div><div><div>B. WARMBOARD-R INSTALLATION</div><div><div>1. WARMBOARD-R shall verify the compatibility of their layout with the attached floor plan.</div><div>2. All supply and return tubing below subfloor in unconditioned space shall be insulated with pipe insulation.</div><div>3. Custom grooves shall be routed as indicated on the plans using supplied router templates, a properly sized router equipped with a template guide, and the supplied 5/8\"/></div></div><div><div>C. TUBING INSTALLATION</div><div><div>1. Holes for routing below sub-floor shall be drilled using an 3/4\"/></div></div><div><div>2. All grooves shall be inspected and cleaned of any debris prior to tubing installation.</div><div>3. Tubing for radiant floor heating shall be 1/2\"/></div><div><div>4. Tubing shall be and remain pressurized immediately following installation into the panel depth/apn for the duration of all construction.</div><div>5. Installer is responsible for protecting tubing from freezing during construction. Should climatic conditions occur, this would require adding antifreeze and corrosion inhibiting fluids upon completion of work.</div><div>6. Installer to record length of every pipe and photograph completed installation.</div><div>7. Special note for carpeted areas: "Tri-it-All" or "Portland Cement" shall fill any unused groove areas. This provides support for the pad & carpet.</div></div></div></div></div></div>	