



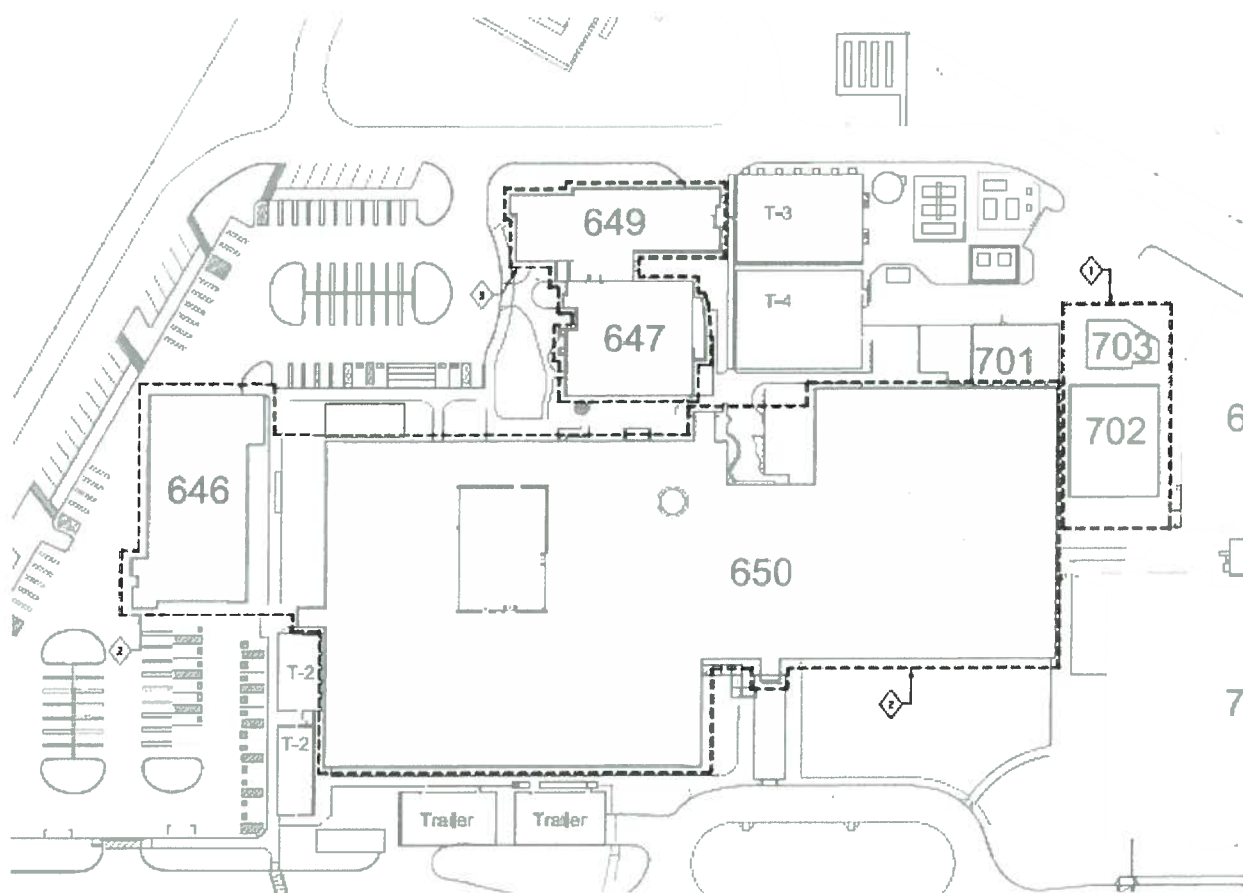
# **VANCHCS HIGH EFFICIENCY CHILLER INSTALLATION**

**US Department Of Veterans Affairs  
VANCHCS, MATHER, CA**



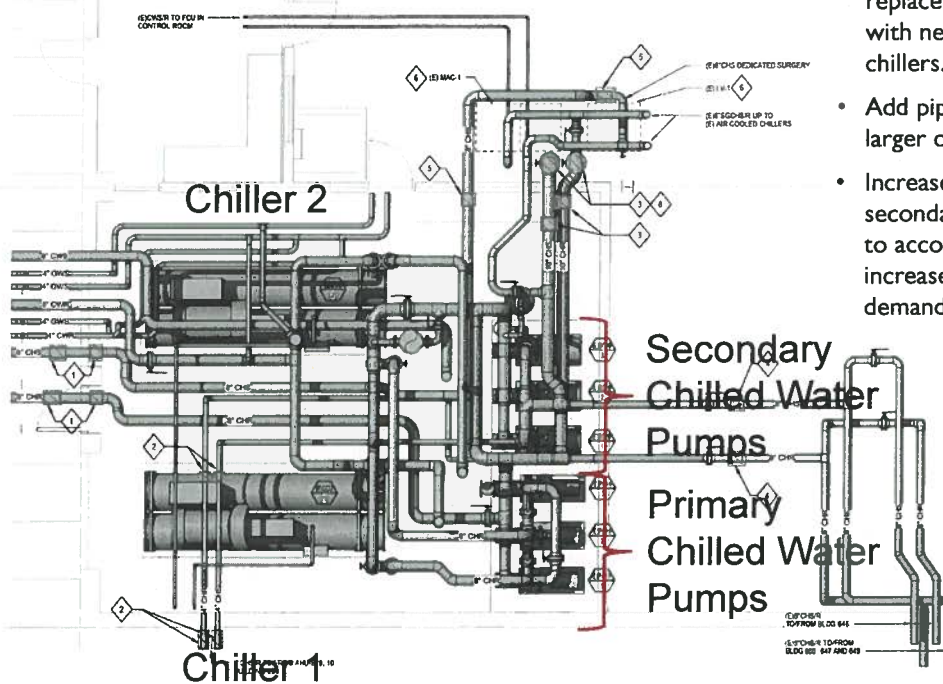


## Site Plan





# Project Description



- Balance multiple building chilled water hydronic loops by replacing cooling coil control and balance valves.
- After loops are balanced, replace 430 ton chillers 1 & 2 with new 700 ton efficiency chillers.
- Add piping to accommodate larger chiller flow rates.
- Increase size of primary & secondary chilled water pumps to accommodate future increase in chilled water demand.

These diagrams are for general project overview only.



## B702 Chiller Room







## B702 Roof



- LOOKING EAST TOWARD COOLING TOWERS



- LOOKING NORTH TOWARD ROOF PUMPS



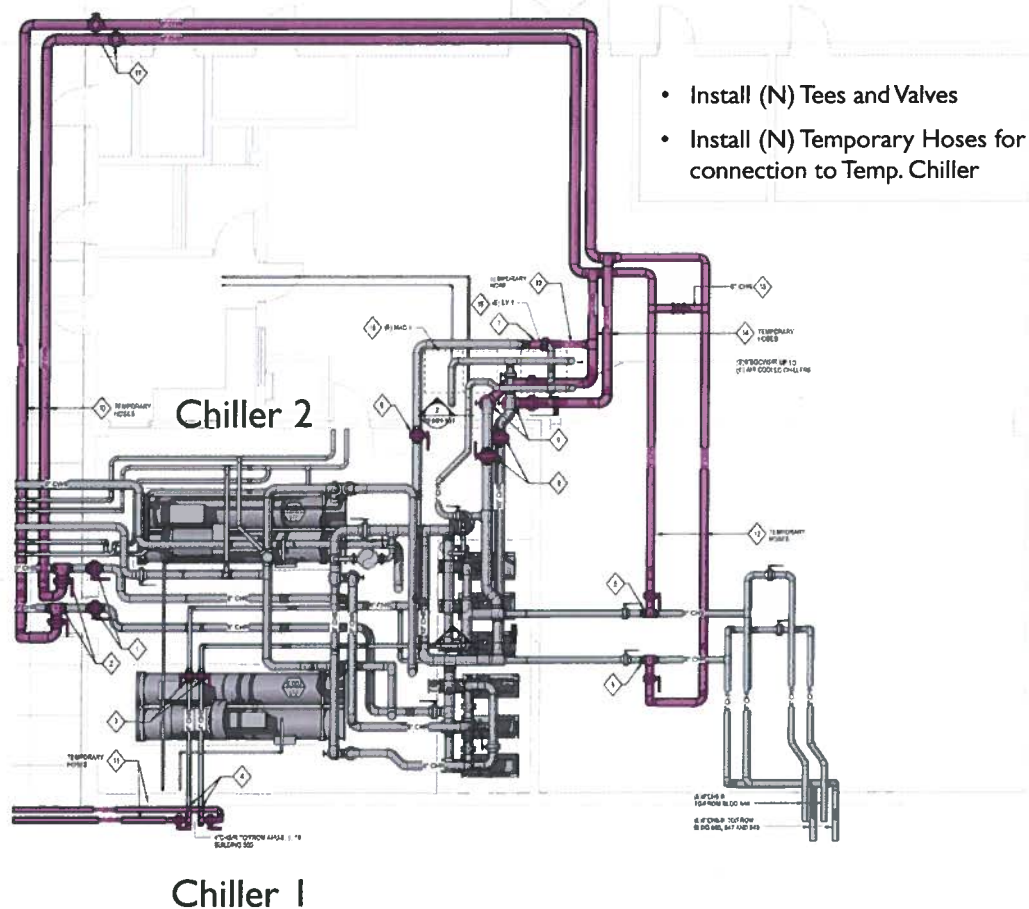
# Phase 0 – Make Ready Work





- [illegible]



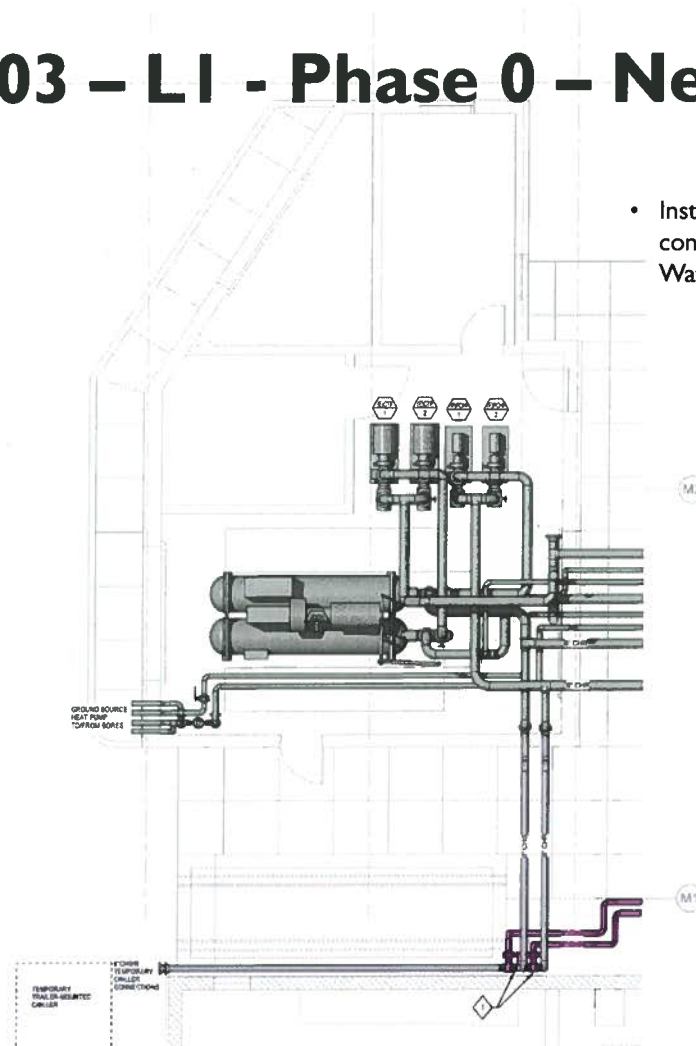






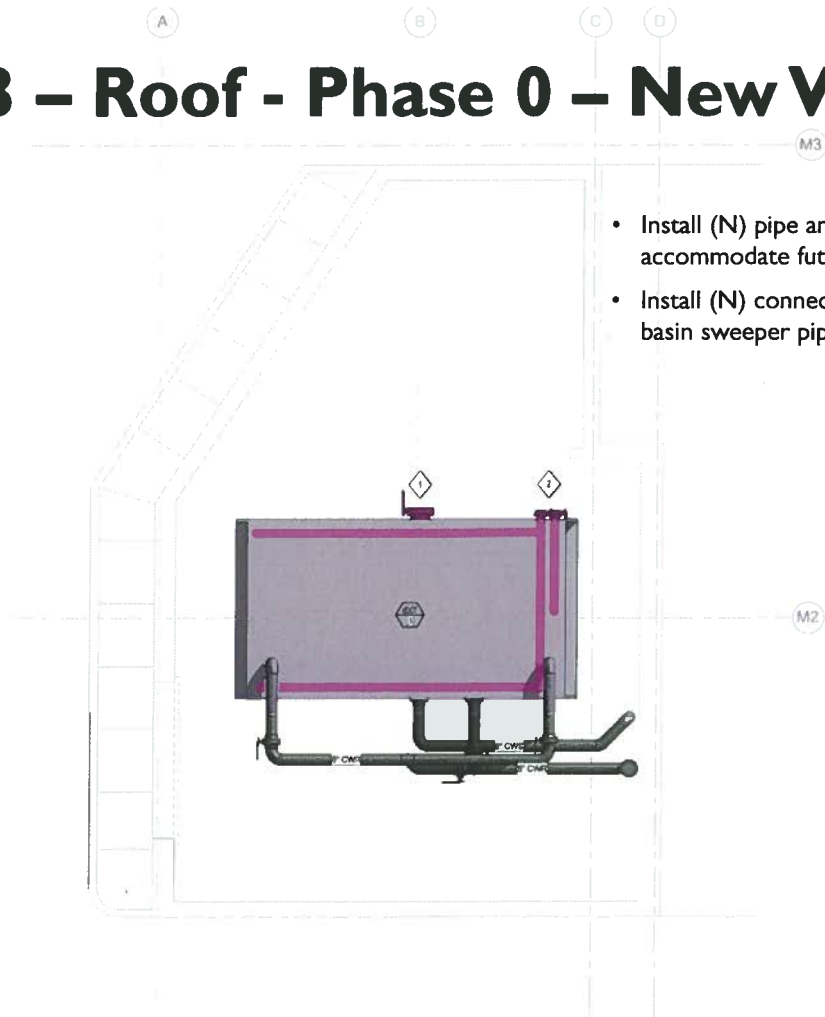
## B703 – LI - Phase 0 – New Work

- Install (N) Tees and Valves to provide connection point for Temp. Chilled Water supply.





## B703 – Roof - Phase 0 – New Work

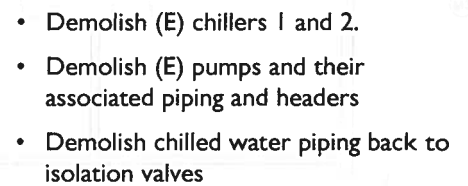


- Install (N) pipe and valve to accommodate future equalizer pipe
- Install (N) connections and valves and basin sweeper piping system



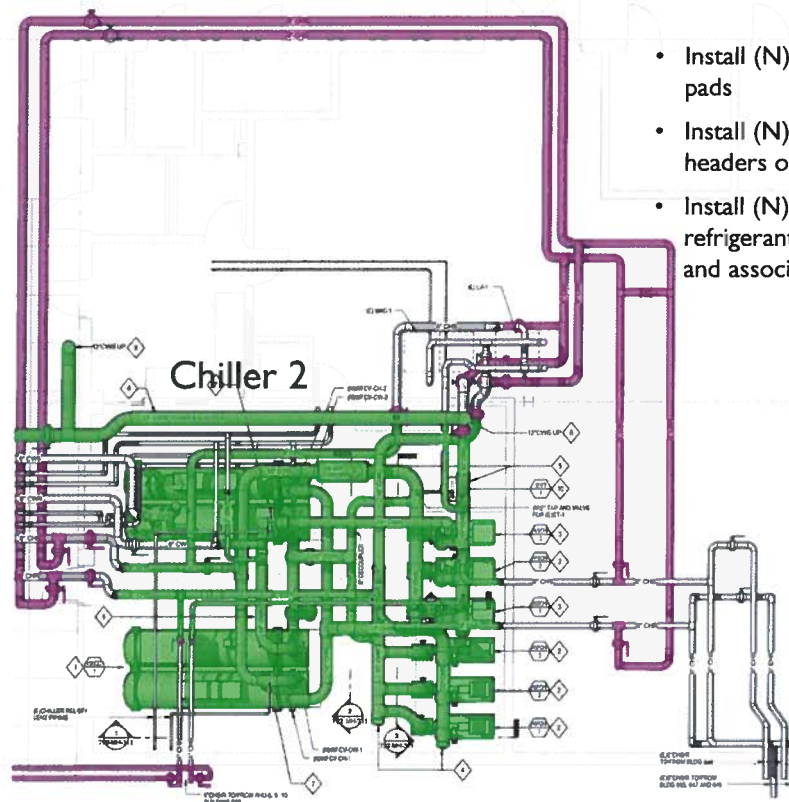
# Phase I – Install New Chillers, Associated Piping & Equipment







## B702 – LI - Phase I – New Work<sup>MD</sup>



- Install (N) chillers onto (E) equipment pads
- Install (N) pumps and associated headers onto (E) equipment pads
- Install (N) condensed water piping, refrigerant relief vent, equalizer drops and associated piping and headers

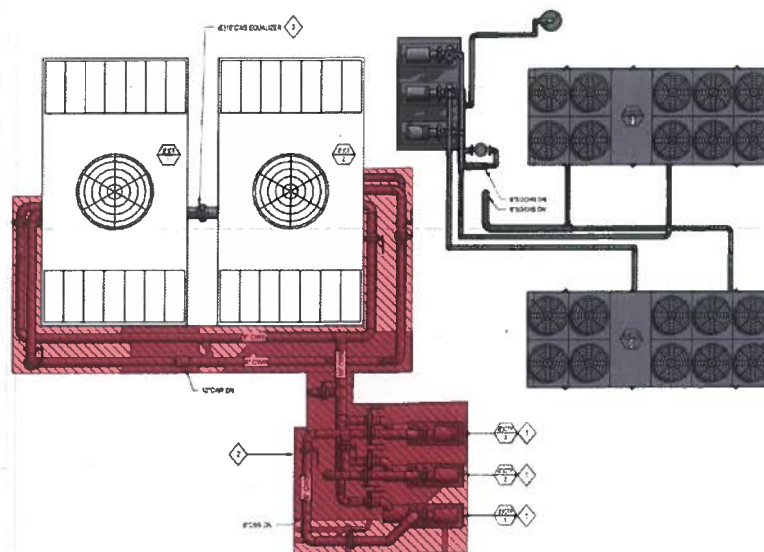
Chiller 1





## B702 – Roof - Phase I – Demo

- Demolish (E) pumps and their associated piping and headers
- Demolish condenser water piping







## B703 – LI - Phase I – New Work

- Install (N) equalizer piping connecting to B702

