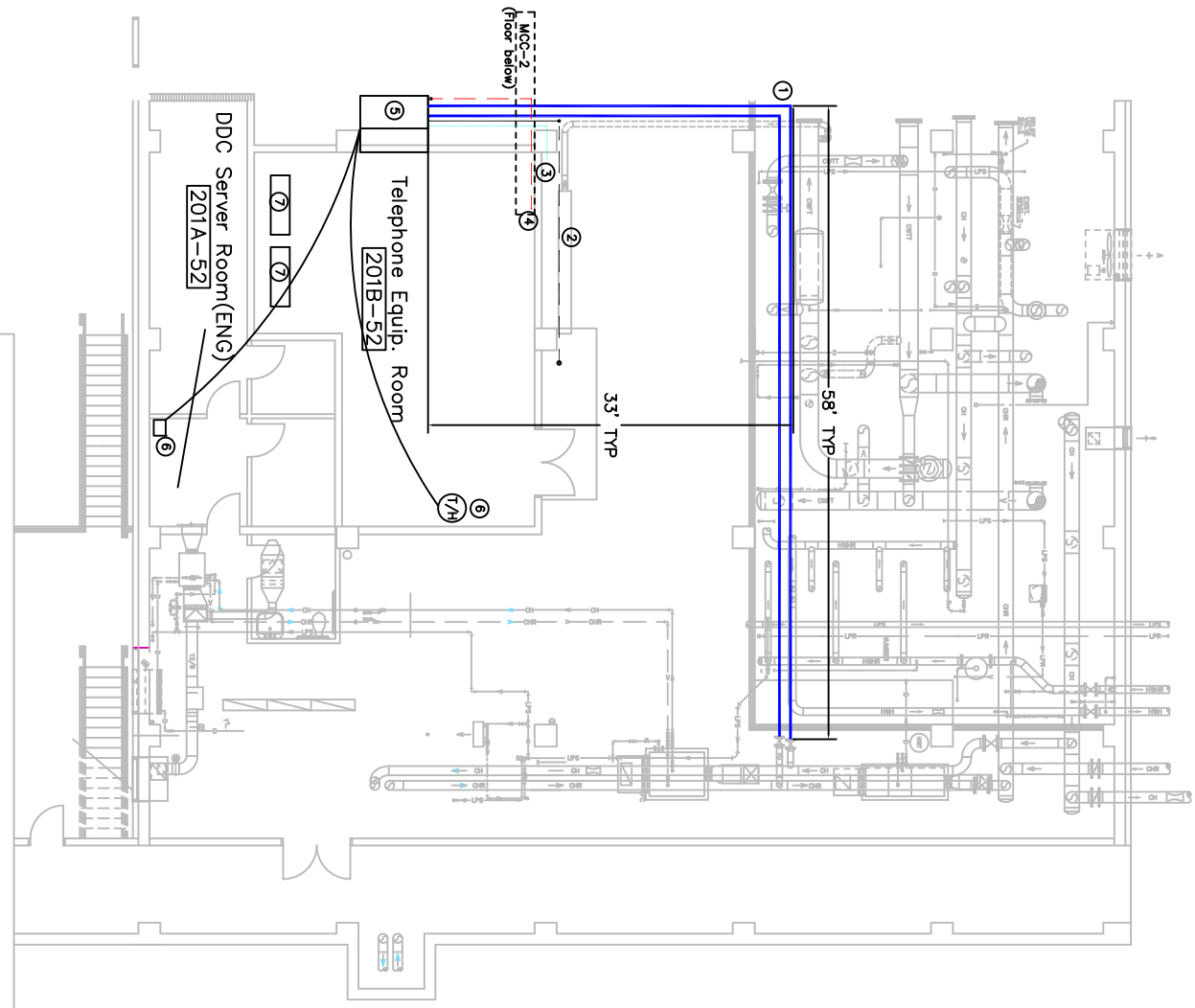


- 1 Reduce from existing 6" blank flanged chilled water supply and return valves. Field route 3" black iron chilled water lines to new Liebert. Reduce to 2" at Liebert and provide isolation ball valves, strainer, balancing valve. Insulate new CHW lines and label every 20 ft. See Water Coil Detail 1
- 2 Core drill mezzanine floor to route 3" copper condensate drain from existing chiller plant floor drain to new Liebert. See Drain Trap Detail 2
- 3 Connect 3" copper line to existing domestic water line at mezzanine level to new Liebert. Provide isolation ball valve at both ends
- 4 Core drill mezzanine floor to route conduit and conductors to Liebert. Run three #6 conductors and one #10 ground in 1" EMT. Provide and install 60 amp fuses and change existing motor starter heaters to support required electrical load.
- 5 Provide and install new Liebert CW-051 unitary cooling unit. Frame openings in CMU wall and fabricate and install ~16 x 7/8" supply plenum with turning vanes and ~16 x65" return plenum. Both plenums shall have 9 gauge expanded metal installed over the entire opening in conditioned room 201B-52. Both plenum openings shall have 1" condensation free/smoke dampers tied into the existing FM200 fire suppression system.
- 6 Provide Liebert optional remote temperature/humidistat. All outside data points for Liebert unit shall be integrated to graphics via Bodei/P/P to the Niagara AX 201A-52
- 7 Replace in-kind existing chilled water Liebert Model Unit 7/2-A4M and 6A Liebert Model 7075A-4 and 6A Liebert Model 7075A-4 units with new 20 ton units. Coordinate controls with new 20 ton unit for load/lag and alternating service operation.



| | | | | | | | | | | | | | | | | | |
|-------------|--|--------------|--|------------------|--|-------------|--|--------------|--|------------------|--|-------------|--|--------------|--|------------------|--|
| PROJECT NO. | | PROJECT NAME | | PROJECT LOCATION | | PROJECT NO. | | PROJECT NAME | | PROJECT LOCATION | | PROJECT NO. | | PROJECT NAME | | PROJECT LOCATION | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | | 000000 | |
| 000000 | | 000000 | | 000000 | | 000000 | | 00000 | | | | | | | | | |