



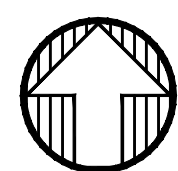
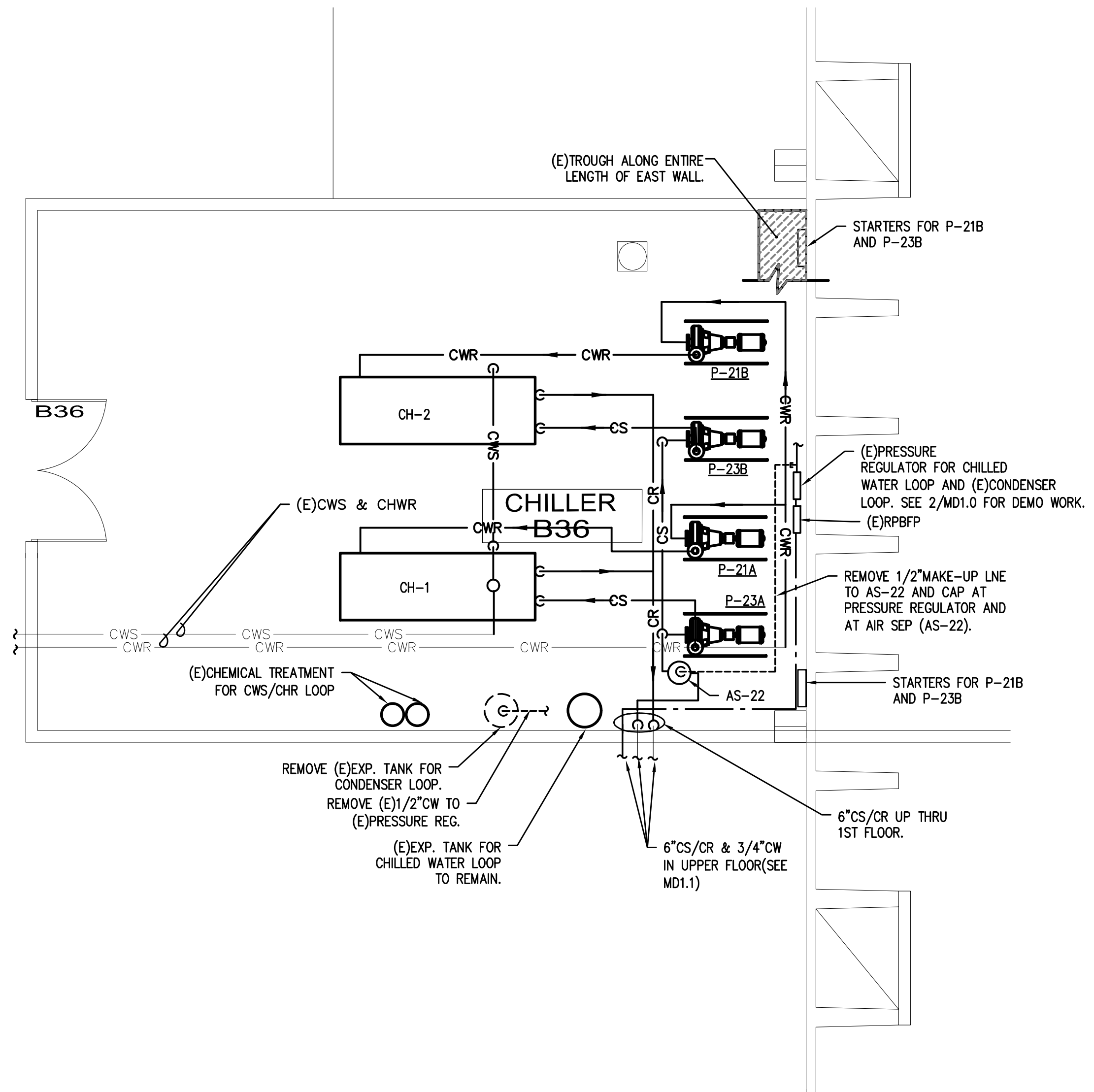
REPLACE COOLING TOWER

JOHN B. YEON FACILITY
1620 SE 190TH ST
GRESHAM, OREGON, 97233

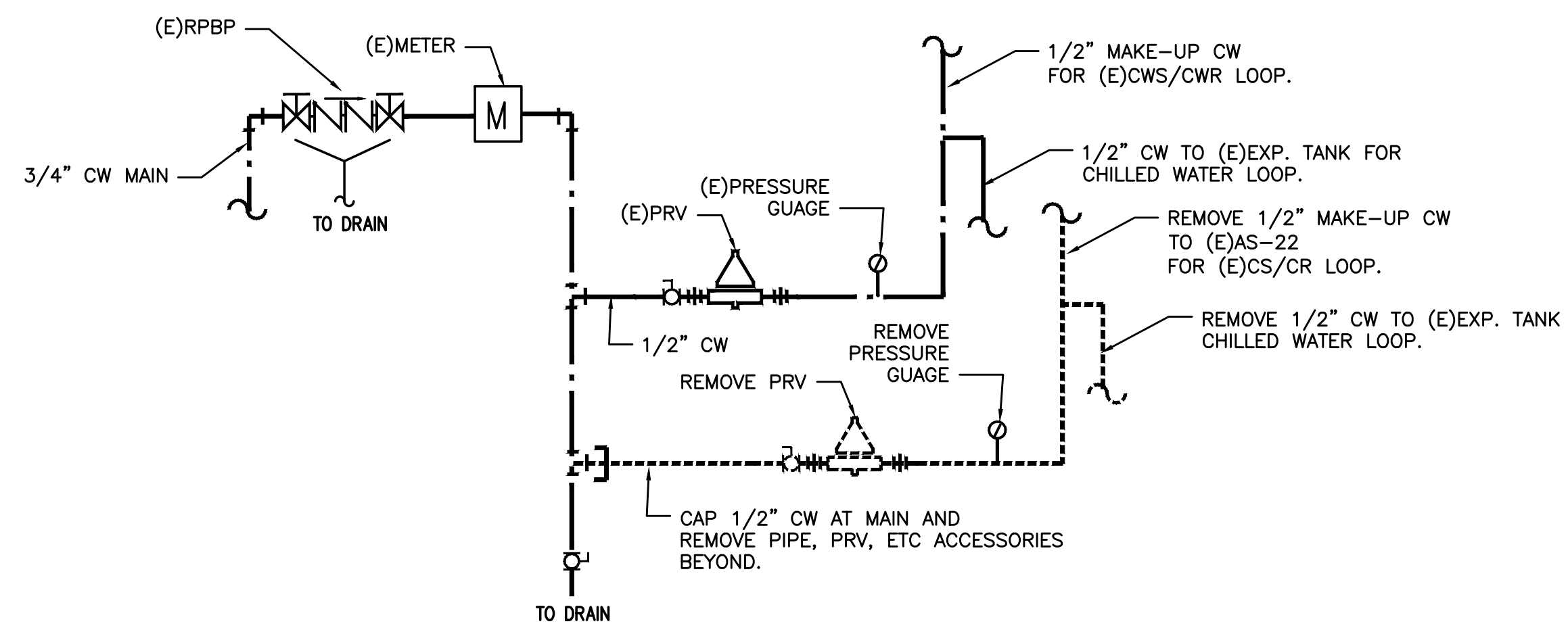
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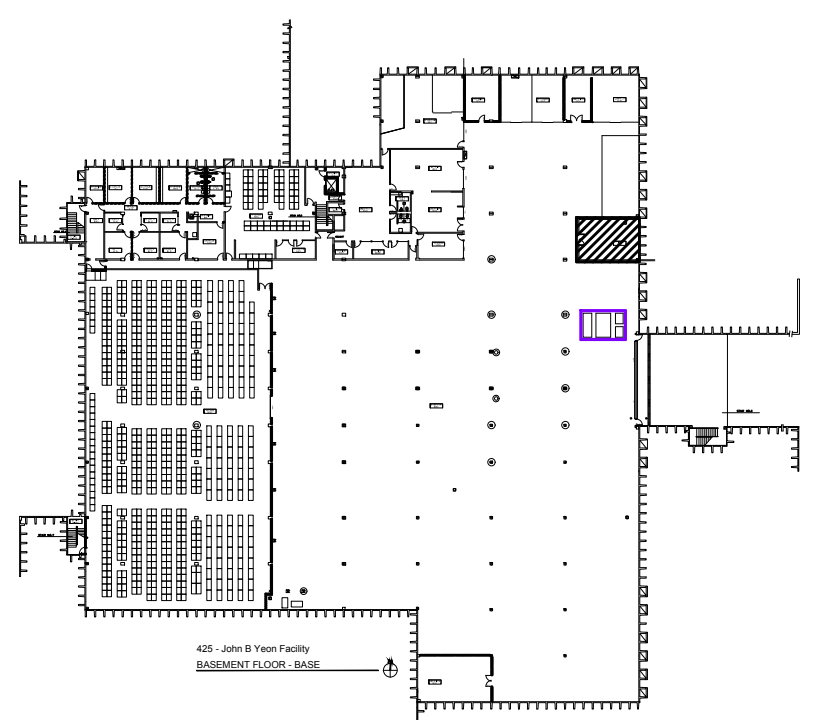
Consultant Project No: 16050-16
 CAD DWG File: MD1.0 Drawn By: MD1.0
 Checked By: Approved By:
 M.C. Bldg.# - Proj.# B425 - CP08.18.24
 Sheet Title CHILLER ROOM - BASEMENT PIPING DEMO PLAN
 Date 09.12.2018
MD1.0
 M Sheet or TNS

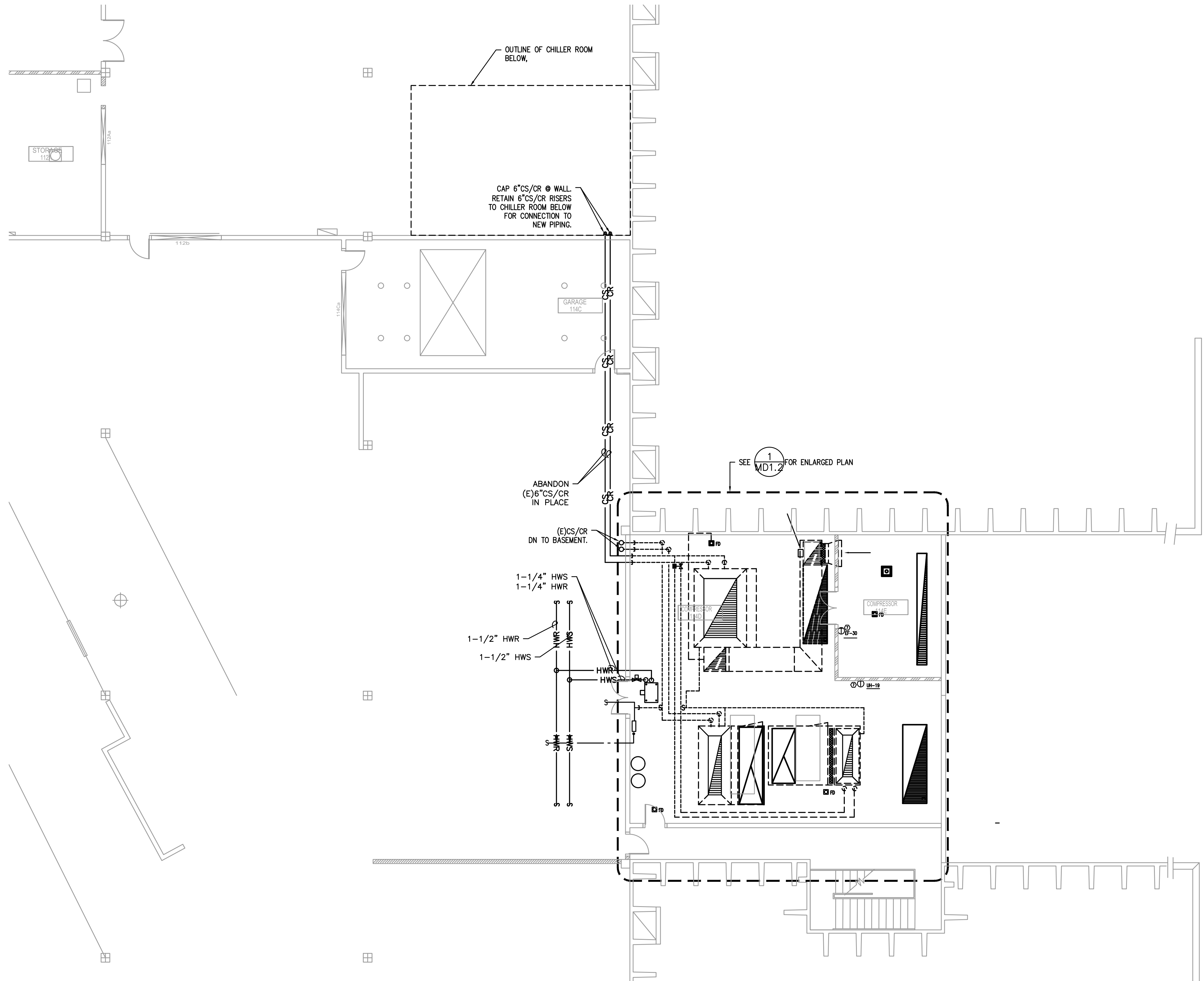


1 CHILLER ROOM - BASEMENT PIPING DEMO PLAN
MD1.0 SCALE: 1/4" = 1'-0"



2 PRV STATION DEMO DETAIL
MD1.0 NO SCALE





STORAGE
112

OUTLINE OF CHILLER ROOM
BELOW.

CAP 6"CS/CR @ WALL.
RETAIN 6"CS/CR RISERS
TO CHILLER ROOM BELOW
FOR CONNECTION TO
NEW PIPING.

GARAGE
114C

SEE 1
MD1.2 FOR ENLARGED PLAN

ABANDON
(E)6"CS/CR
IN PLACE

(E)CS/CR
DN TO BASEMENT.

1-1/4" HWS
1-1/4" HWR

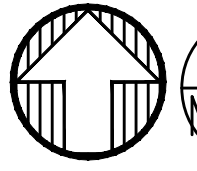
1-1/2" HWR

1-1/2" HWS

HWR
HWS

COMPRESSOR
LHD

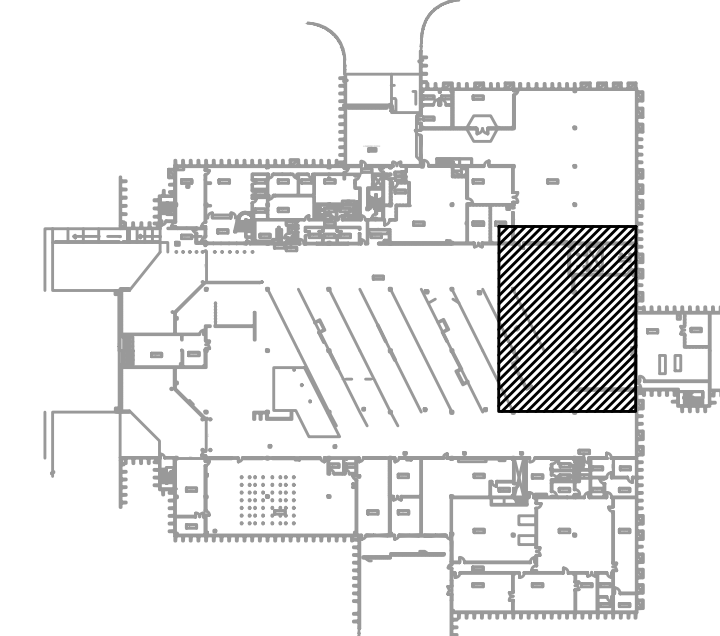
COMPRESSOR
RHD



1
MD11

1ST FLOOR- PIPING DEMO PLAN

SCALE: 1/4"=1'-0"



REPLACE COOLING TOWER

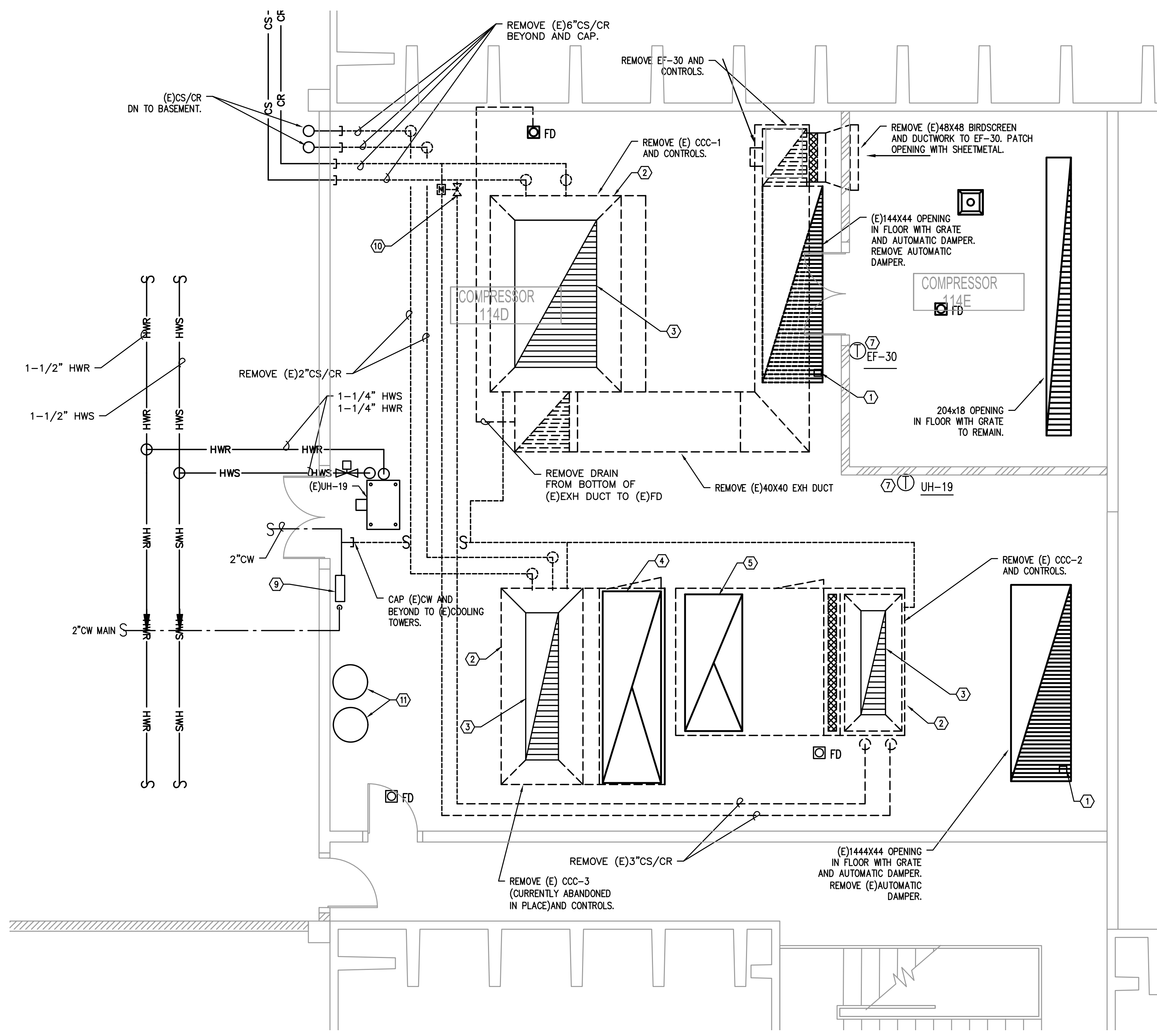
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Date	09.12.2018

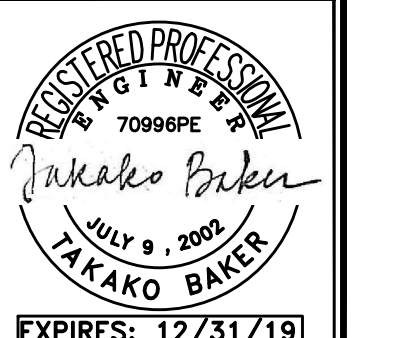
MD1.1
 M Sheet of TNS



1 COOLING TOWER ROOM - 1ST FLOOR- PIPING DEMO PLAN
 MD12 SCALE: 1/4"=1'-0"

KEYED NOTES:

1. REMOVE (E)PNEUMATIC ACTUATOR FOR THE DAMPER. DEMO PNEUMATIC LINE TO OUTSIDE MECH ROOM AND CAP.
2. (E)COOLING TOWER TO BE DEMOLISHED AND REMOVED FROM BUILDING. SCRAP/CUT UNIT INTO SMALL ENOUGH SIZE TO FIT THRU DOUBLE DOORS. CAP OFF EXISTING DUCT THRU ROOF UNDER STRUCTURE. CAP CURB ON ROOF.
3. 144X44 FLOOR OPENING WITH DAMPER. REMOVE AUTOMATIC DAMPER AND PNEUMATIC ACTUATOR AND DEMO PNEUMATIC LINE TO OUTSIDE MECH ROOM AND CAP. OPENING TO BE COVERED WITH A NEW HEAVY DUTY GRATE.
5. 42X98 FLOOR OPENING TO REMAIN. TO BE COVERED WITH A NEW HEAVY DUTY GRATE.
6. REMOVE (E)1/2 HP MOTOR AND REPLACE WITH NEW. UPGRADE (E)CONTROLS WITH NEW DDC.
7. REMOVE (E)STAT.
8. NOT USED.
9. (E)REDUCED PRESSURE BACKFLOW PREVENTOR(RPBP).
10. REMOVE (E)CONTROL VALVE AND CONTROL.
11. RELOCATE EXISTING CHEM FEEDERS AND CONTROLLER TO THE CHILLER ROOM. CONTRACTOR TO FIELD VERIFY EXACT LOCATION. COORDINATE WORK WITH CHEM TREATMENT CONTRACTOR.



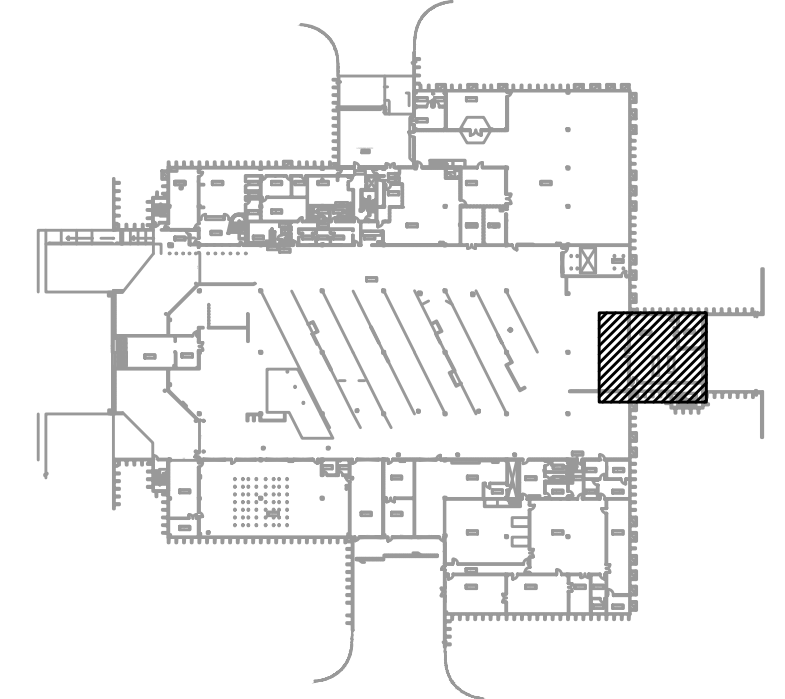
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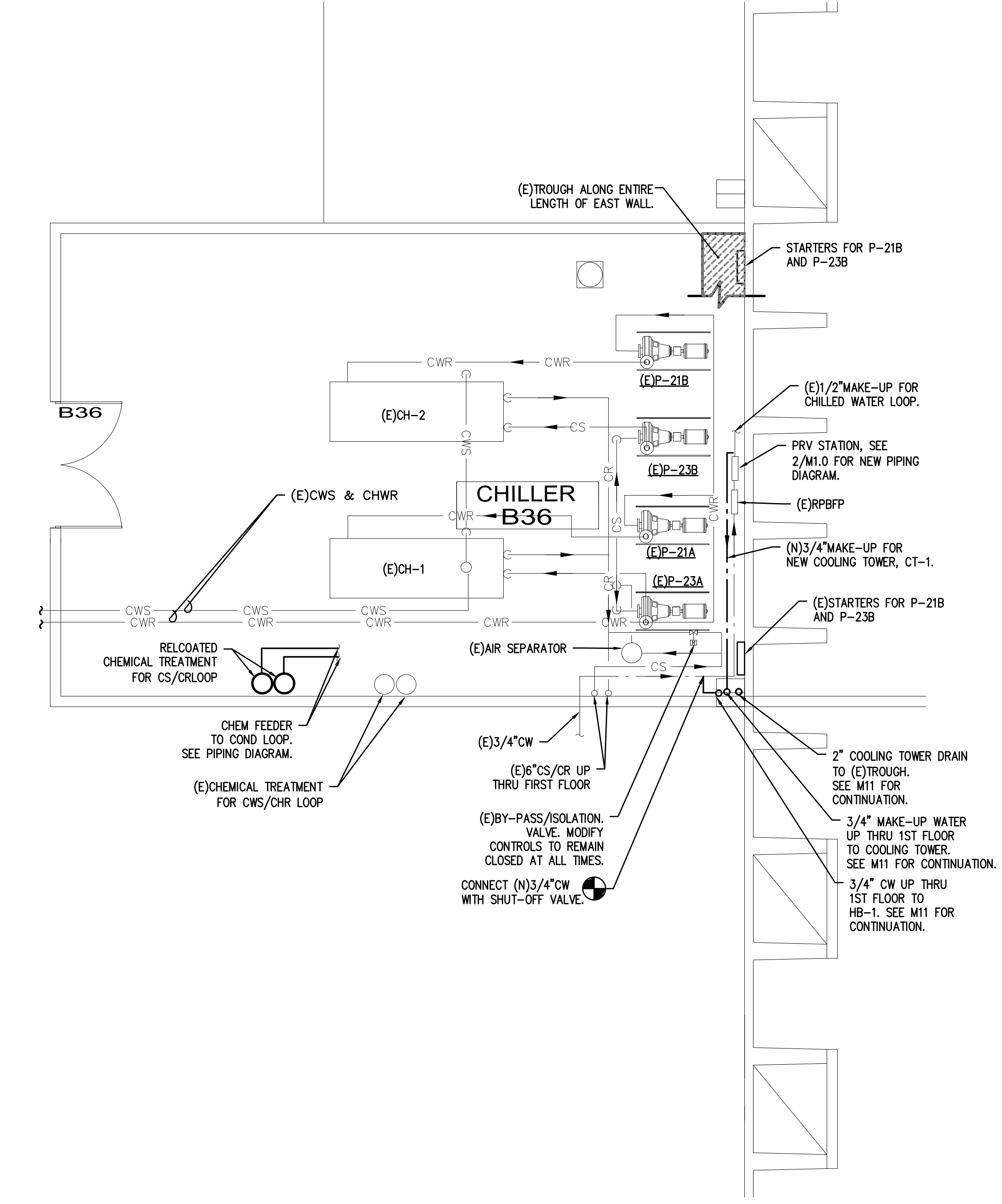
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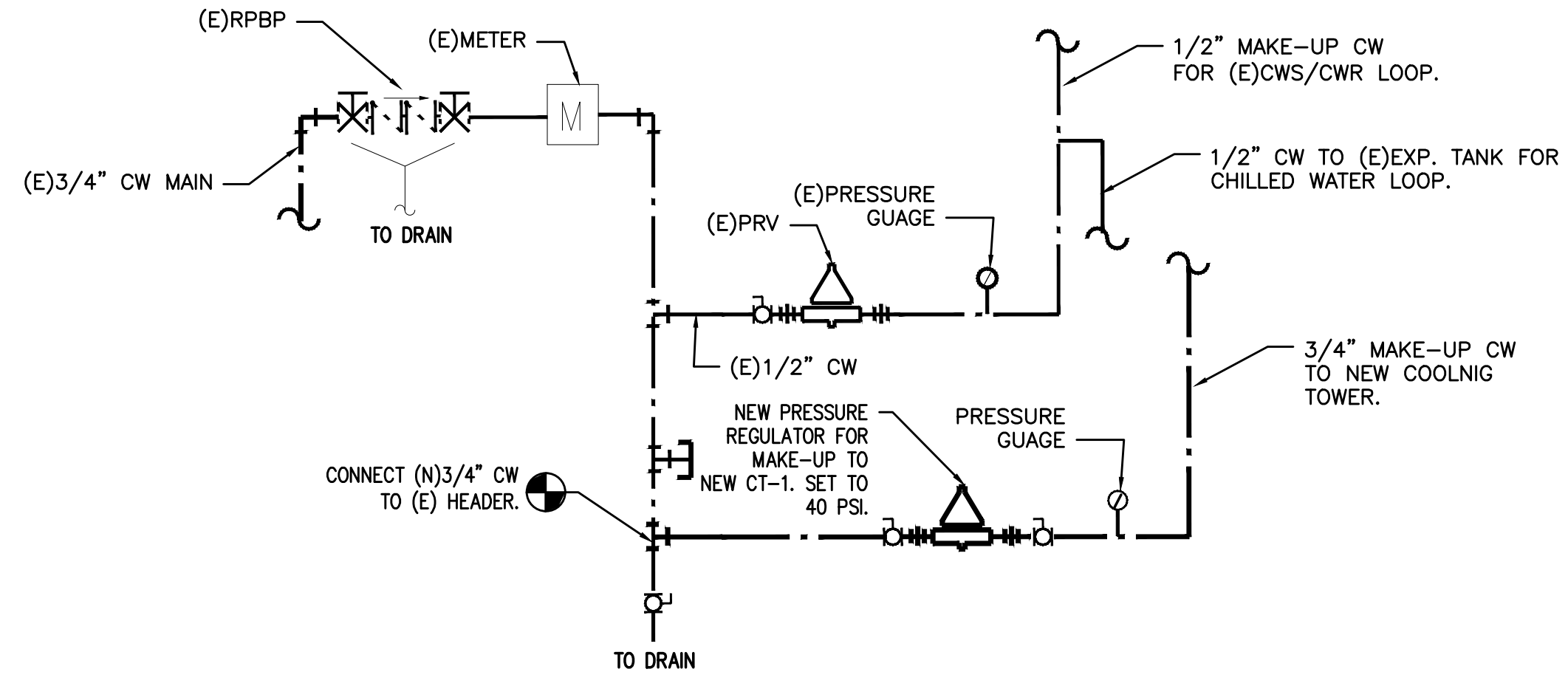
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MD1.2
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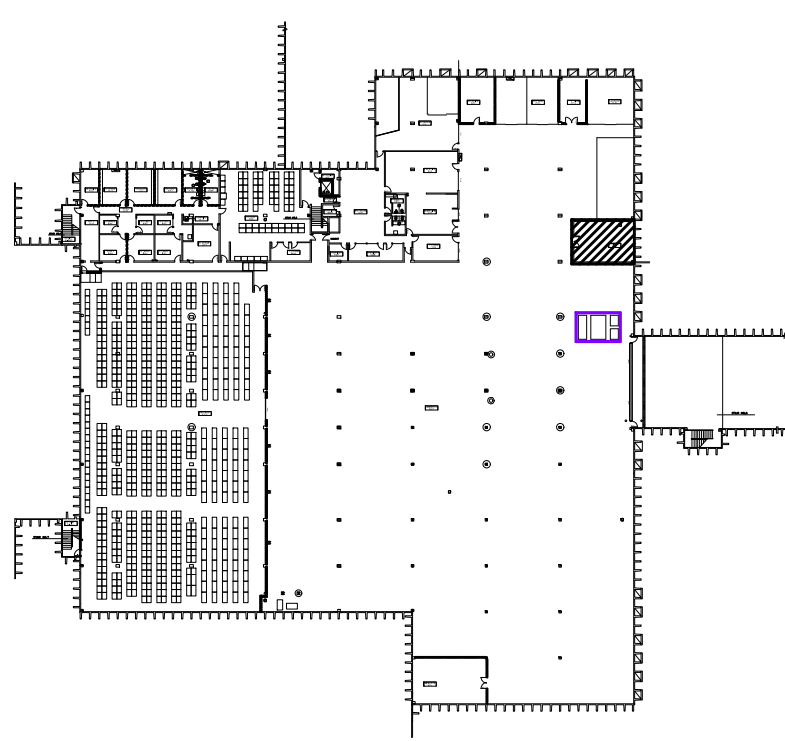




1 CHILLER ROOM - BASEMENT PIPING PLAN
 SCALE: 1/4" = 1'-0"



2 PRV STATION PIPING DETAIL
 M1.0 NO SCALE



REPLACE COOLING TOWER

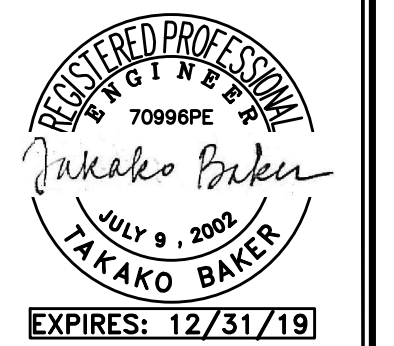
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12 SEPTEMBER 2018

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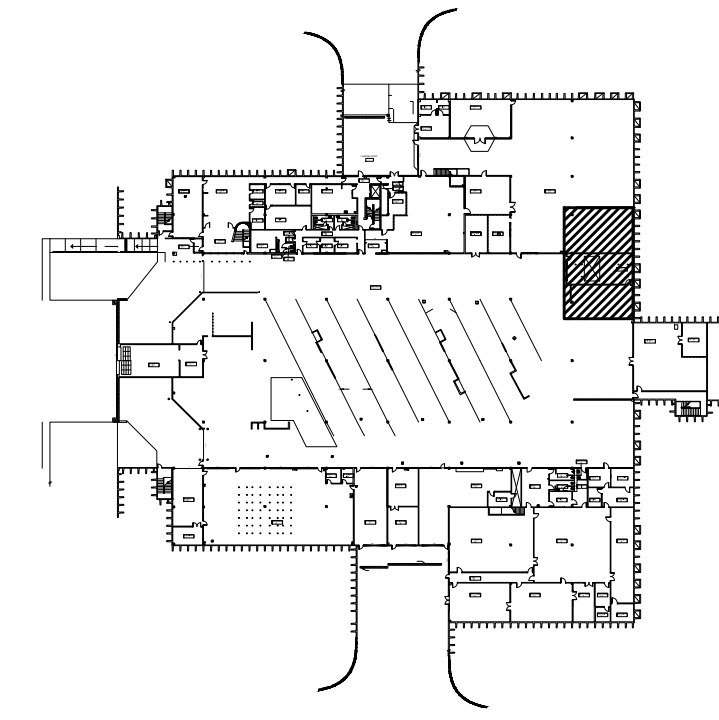
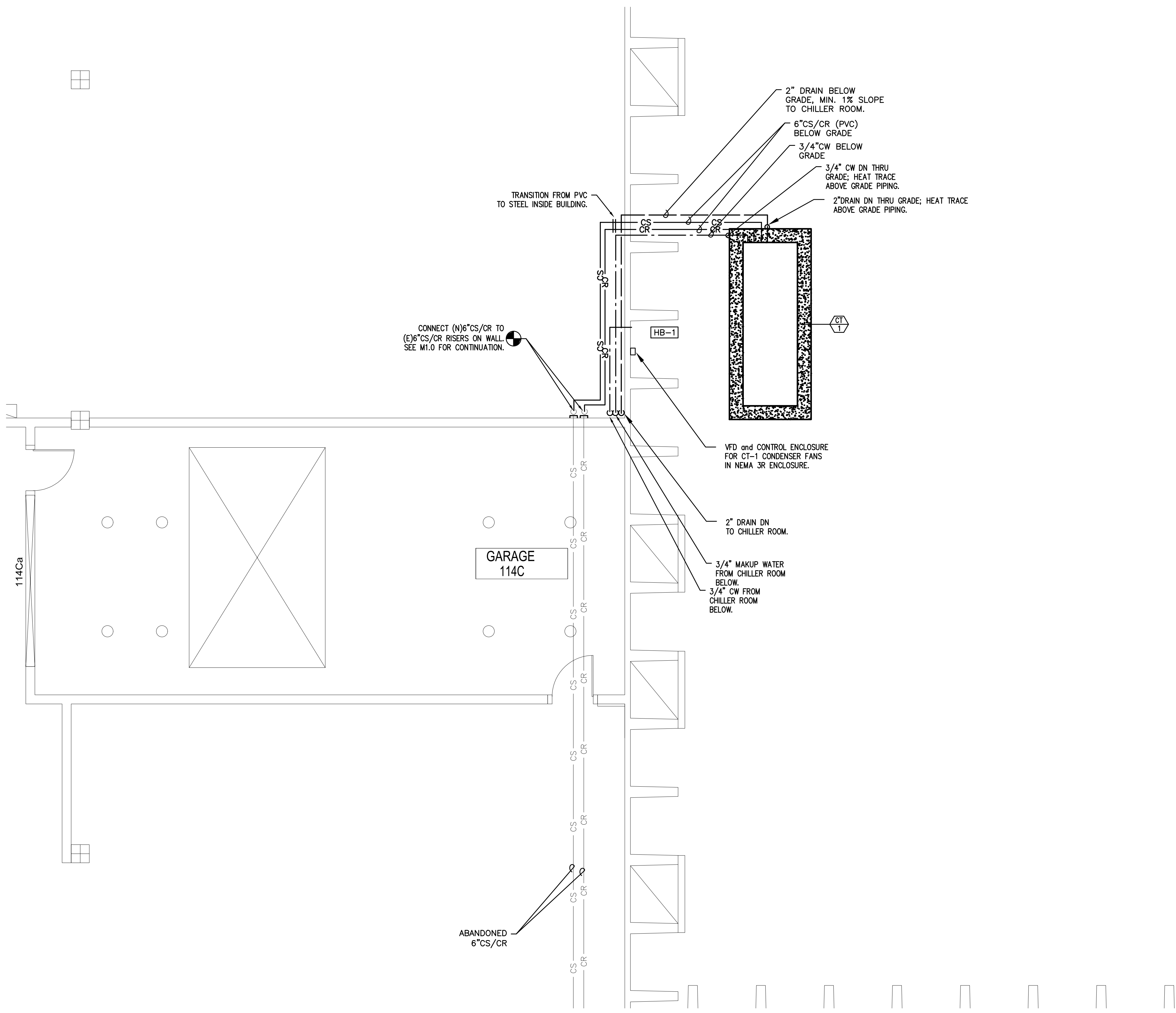
12 SEPTEMBER 2018

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	M1.1
	M Sheet of TNS

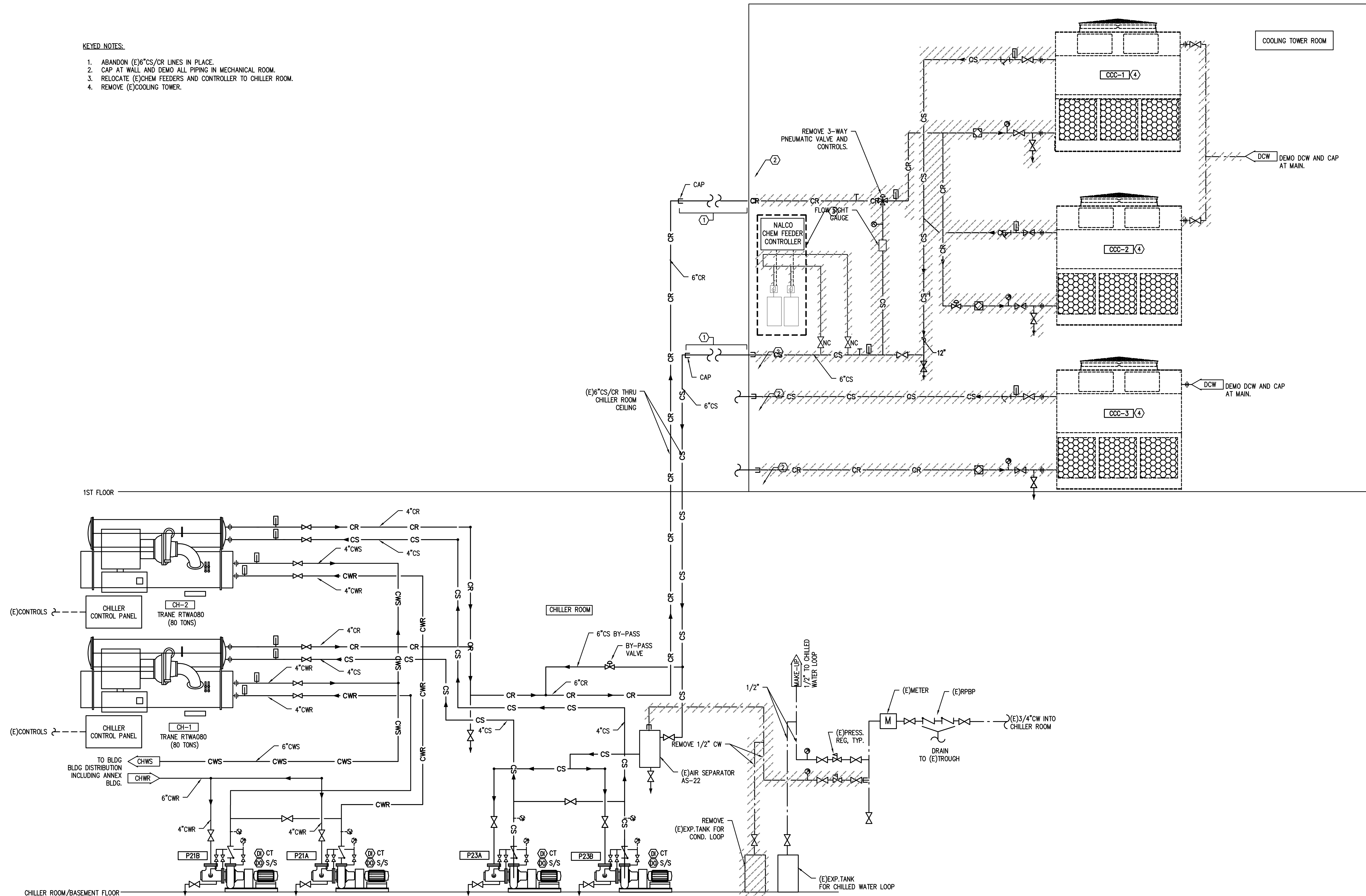
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1 1ST FLOOR - PIPING PLAN
SCALE: 1/4"=1'-0"

KEYED NOTES:

1. ABANDON (E)6"CS/CR LINES IN PLACE.
2. CAP AT WALL AND DEMO ALL PIPING IN MECHANICAL ROOM.
3. RELOCATE (E)CHEM FEEDERS AND CONTROLLER TO CHILLER ROOM.
4. REMOVE (E)COOLING TOWER.



1 COOLING TOWER PIPING DIAGRAM - DEMO
 M4.0 SCALE: N/A

REPLACE COOLING TOWER

JOHN B. YEON FACILITY
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Mark	Date	Description of Revision	By

Consultant Project No: 16050-16
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 Sheet Title: COOLING TOWER PIPING DEMO DIAGRAM
 Date: 09.12.2018
M4.0
 M Sheet of TNS

12 SEPTEMBER 2018

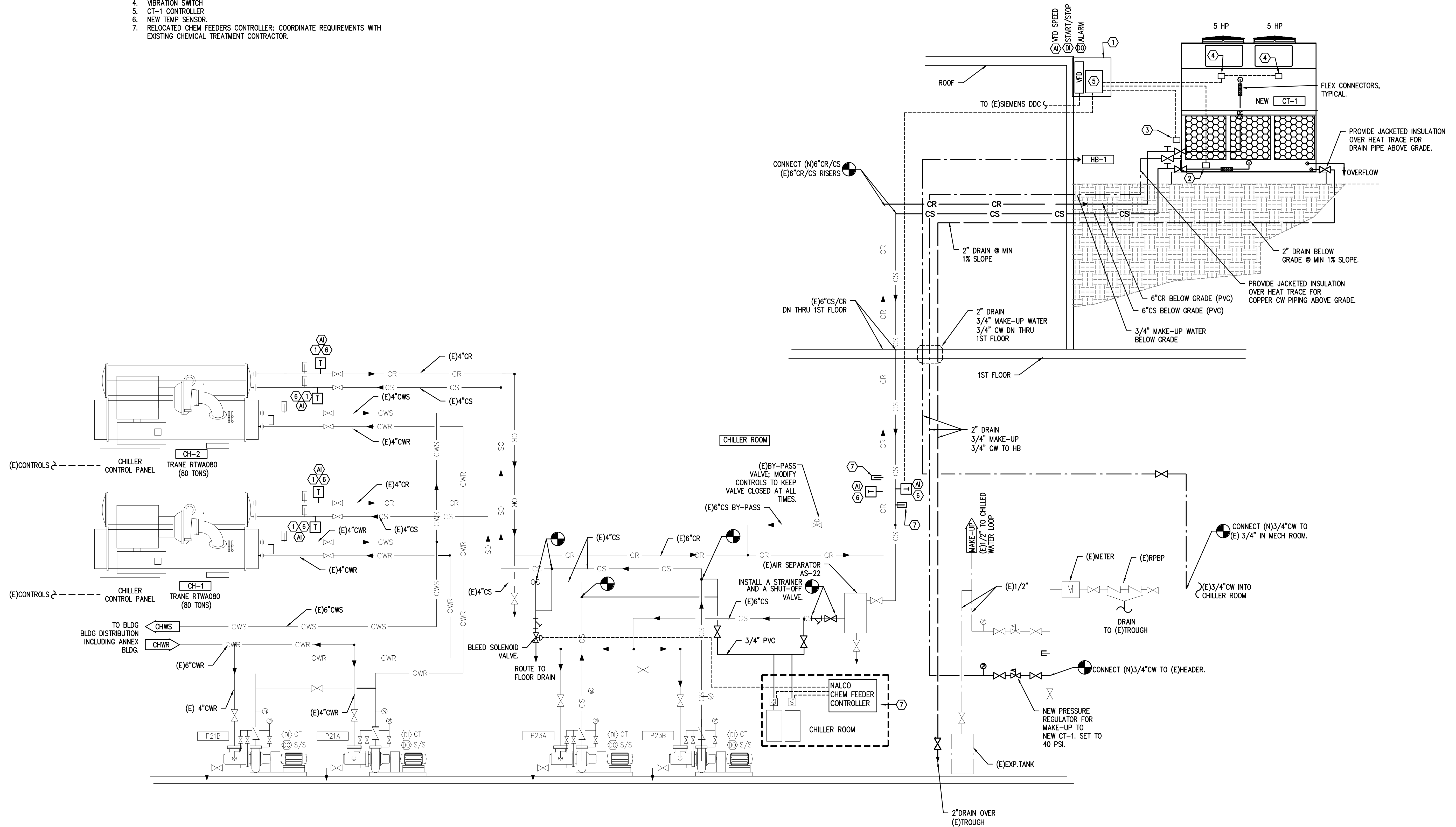
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KEYED NOTES:

1. CONTROLS ENCLOSURE: MOUNTED ON EXTERIOR WALL OF BUILDING ACROSS FROM THE COOLING TOWER. NEMA 4 OUTDOOR RATED ENCLOSURE, 250 #. SEE ELECTRICAL PLANS FOR POWER CONNECTION. ELECTRICAL CONTRACTOR TO PROVIDE LINE VOLTAGE WIRING TO CONTROL PANEL, AND FROM CONTROL PANEL TO (2) CONDENSER FANS AND TO PAN HEATER.
2. PAN HEATER LOW WATER CUT OFF
3. PAN HEATER THERMOSTAT
4. VIBRATION SWITCH
5. CT-1 CONTROLLER
6. NEW TEMP SENSOR.
7. RELOCATED CHEM FEEDERS CONTROLLER; COORDINATE REQUIREMENTS WITH EXISTING CHEMICAL TREATMENT CONTRACTOR.

SEQUENCE OF OPERATION:

1. USE EXISTING CONTROLS SEQUENCE TO START/STOP COOLING TOWER.
2. MONITOR VFD FREQUENCY, CONDENSER SUPPLY WATER TEMP, AND CONDENSER SUPPLY AND RETURN TEMPS TO EACH CHILLER.
3. SEND ALARM SIGNAL TO FROM COOLING CONTROL PANEL TO SIEMENS DDC PANEL.



1 COOLING TOWER PIPING DIAGRAM
M4.0 SCALE: N/A

12 SEPTEMBER 2018

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