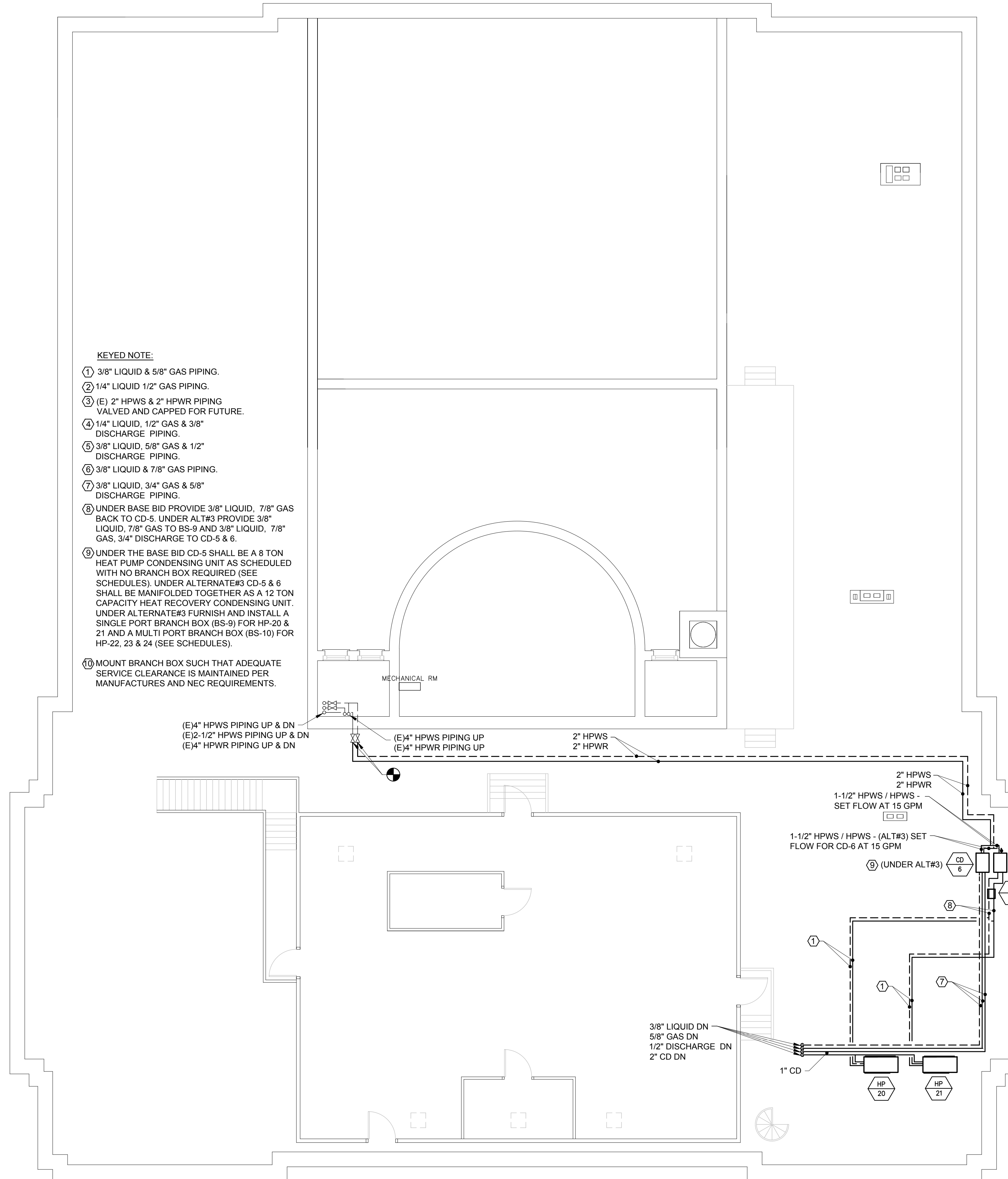


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- KEYED NOTE:**
- ① 3/8" LIQUID & 5/8" GAS PIPING.
  - ② 1/4" LIQUID 1/2" GAS PIPING.
  - ③ (E) 2" HPWS & 2" HPWR PIPING VALVED AND CAPPED FOR FUTURE.
  - ④ 1/4" LIQUID, 1/2" GAS & 3/8" DISCHARGE PIPING.
  - ⑤ 3/8" LIQUID, 5/8" GAS & 1/2" DISCHARGE PIPING.
  - ⑥ 3/8" LIQUID & 7/8" GAS PIPING.
  - ⑦ 3/8" LIQUID, 3/4" GAS & 5/8" DISCHARGE PIPING.
  - ⑧ UNDER BASE BID PROVIDE 3/8" LIQUID, 7/8" GAS BACK TO CD-5. UNDER ALT#3 PROVIDE 3/8" LIQUID, 7/8" GAS TO BS-9 AND 3/8" LIQUID, 7/8" GAS, 3/4" DISCHARGE TO CD-5 & 6.
  - ⑨ UNDER THE BASE BID CD-5 SHALL BE A 8 TON HEAT PUMP CONDENSING UNIT AS SCHEDULED WITH NO BRANCH BOX REQUIRED (SEE SCHEDULES). UNDER ALTERNATE#3 CD-5 & 6 SHALL BE MANIFOLDED TOGETHER AS A 12 TON CAPACITY HEAT RECOVERY CONDENSING UNIT. UNDER ALTERNATE#3 FURNISH AND INSTALL A SINGLE PORT BRANCH BOX (BS-9) FOR HP-20 & 21 AND A MULTI PORT BRANCH BOX (BS-10) FOR HP-22, 23 & 24 (SEE SCHEDULES).
  - ⑩ MOUNT BRANCH BOX SUCH THAT ADEQUATE SERVICE CLEARANCE IS MAINTAINED PER MANUFACTURERS AND NEC REQUIREMENTS.

(E)4" HPWS PIPING UP & DN  
(E)2-1/2" HPWS PIPING UP & DN  
(E)4" HPWR PIPING UP & DN

(E)4" HPWS PIPING UP  
(E)4" HPWR PIPING UP

2" HPWS  
2" HPWR

2" HPWS  
2" HPWR

1-1/2" HPWS / HPWS - SET FLOW AT 15 GPM

1-1/2" HPWS / HPWS - (ALT#3) SET FLOW FOR CD-6 AT 15 GPM

⑨ (UNDER ALT#3)

CD 6

CD 5

BS 9

BS 10

①

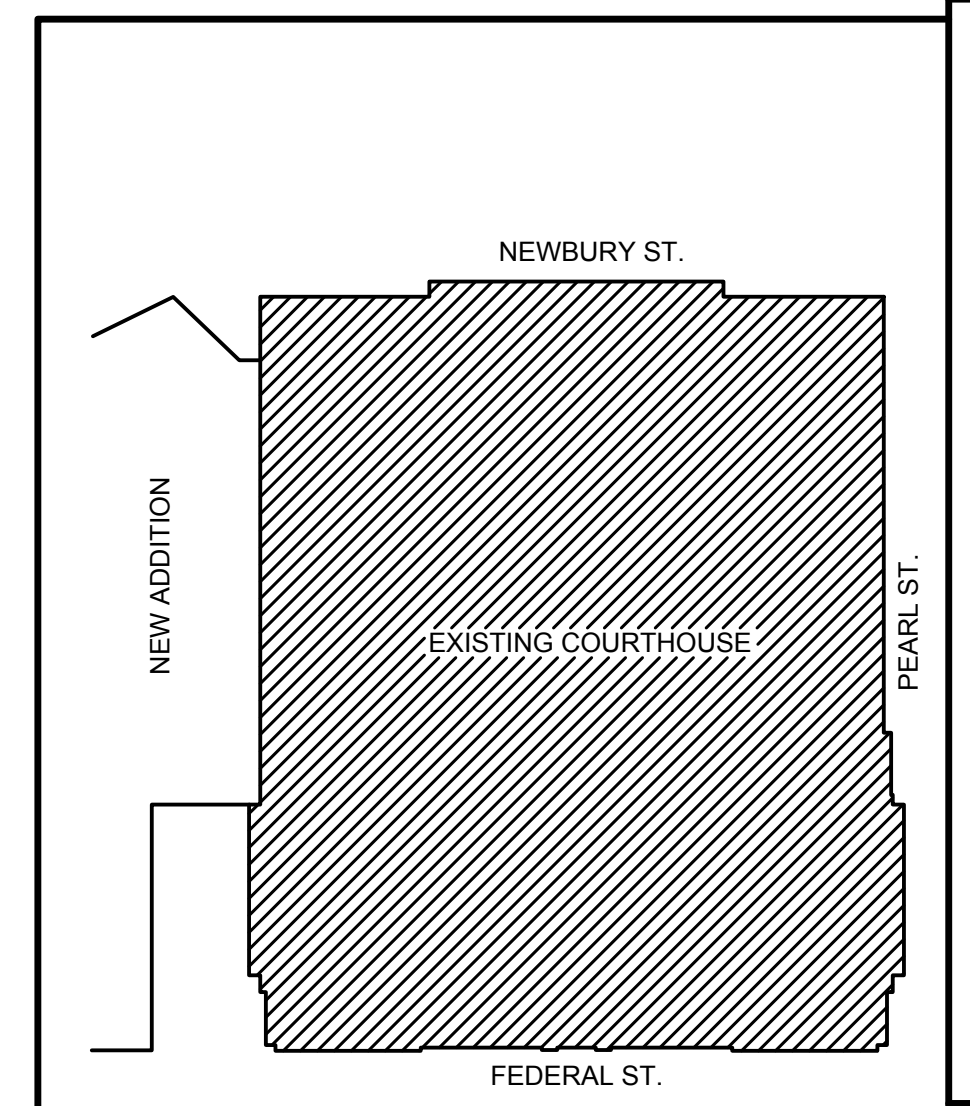
⑦

3/8" LIQUID DN  
5/8" GAS DN  
1/2" DISCHARGE DN  
2" CD DN

1" CD

HP 20

HP 21



A1 MECHANICAL ATTIC PIPING PLAN

A9 KEY PLAN

1/8" = 1'-0"

160 Veranda Street  
Portland, Maine 04103  
T: 207.221.2260  
F: 207.221.2266  
Web: www.allied-eng.com

**Allied Engineering**  
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**MECHANICAL PIPING ATTIC PLAN**

**AIR CONDITIONING AND HEATING UPGRADES**  
CUMBERLAND COUNTY COURTHOUSE  
142 FEDERAL STREET, PORTLAND, MAINE

**MP-102**

R E V I S I O N S		NUMBER	DATE	BY	DESCRIPTION

Date: DECEMBER 22, 2017

Drawn By: SCL

Checked By: ASD

Project Mgr: ASD

Project No: 17051

Cad File: 17051M.DWG

Graphic Scale: 0 1"