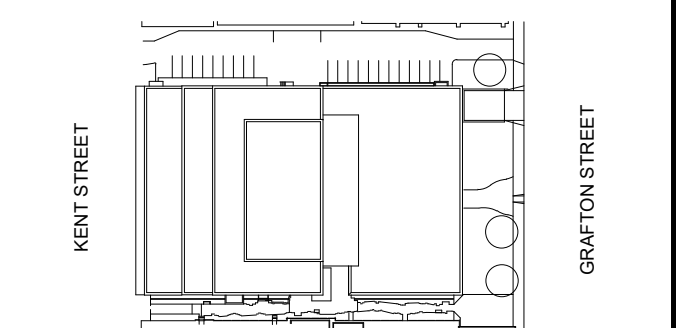


**NORR**

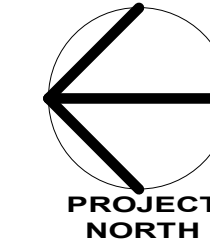
NORR Architects & Engineers Limited  
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key plan



project and true North



project legend



THE ASSOCIATION OF  
PROFESSIONAL ENGINEERS  
OF THE PROVINCE OF  
PRINCE EDWARD ISLAND  
VALID FOR THE YEAR 2022

P.N. Frasier  
No. 2553  
DATE: 27 MAY, 2022

LICENSED  
PROFESSIONAL ENGINEER  
PROVINCE OF  
PRINCE EDWARD ISLAND

ISSUED FOR TENDER 2022-05-27

revisions

project

DANIEL J MACDONALD  
MODERNIZATION

161 GRAFTON STREET  
CHARLOTTETOWN, PEI, C1A 1L1

drawing

HYDRONIC - SECOND  
FLOOR NEW WORK

designed NORR

date 2020-8-31

drawn NORR

date 2020-8-31

approved PF

date 2022-05-27

Tender

Submission

PW3SC Project Manager Administrateur de projets TP3SC

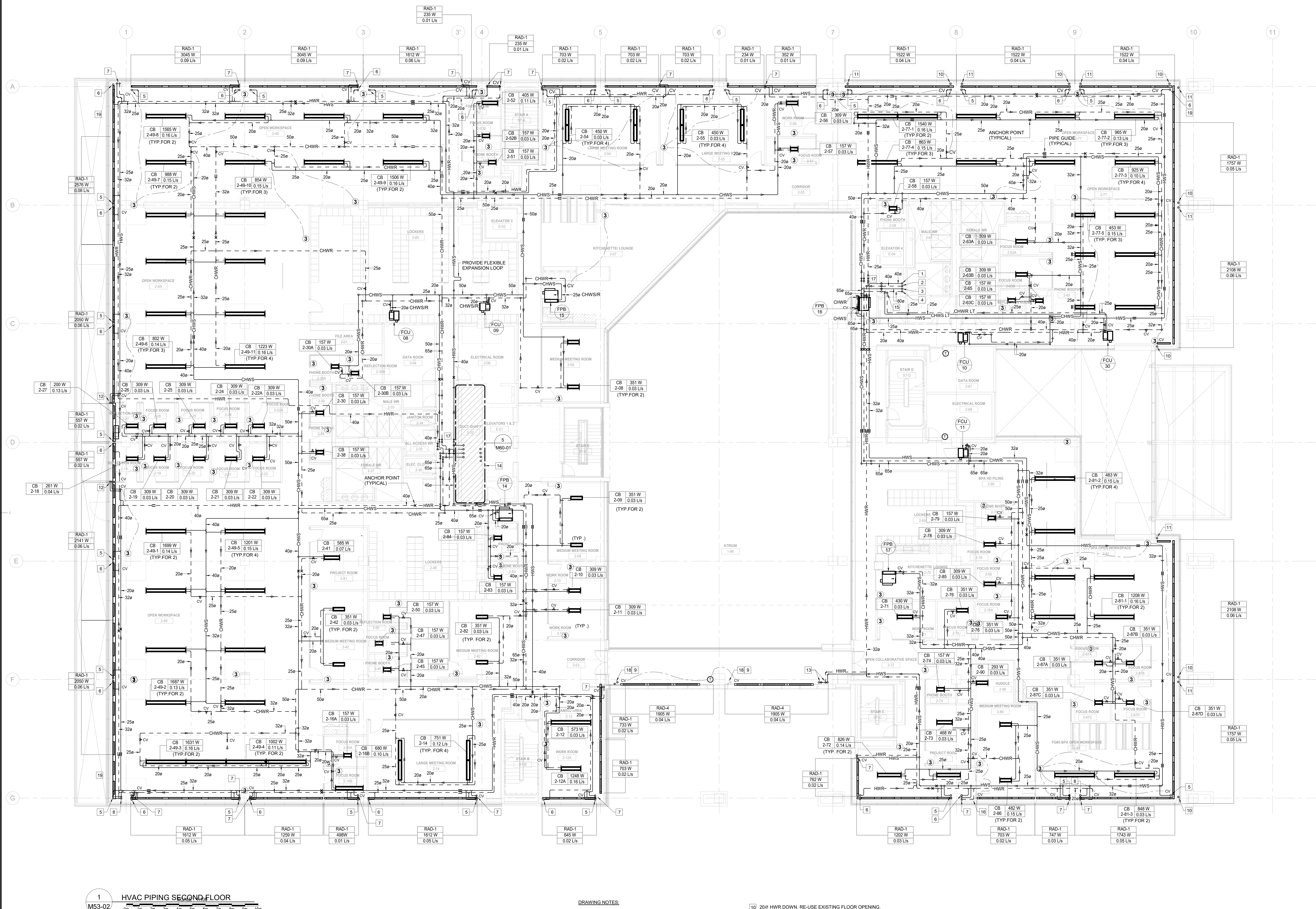
project number no. du projet

R.056687.005

drawing no. no. du dessin

M53-02

E:DRM/GDD-E: 553185 v1



1 HVAC PIPING SECOND FLOOR  
M53-02

DRAWING NOTES:

1 65e HWS FROM BELOW, 40e UP.

2 40e HWR FROM ABOVE, 65e DOWN.

3 65e CHWS FROM BELOW, 40e UP.

4 40e CHWR FROM ABOVE, 65e DOWN.

5 20e HWS UP THROUGH FLOOR TO SERVICE RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.

6 20e HWR DOWN THROUGH FLOOR FROM RADIATORS AT LEVEL ABOVE. RE-USE EXISTING FLOOR OPENINGS.

7 20e HWS/HWR DOWN TO SERVE RADS.

8 20e HWS/HWS TIGHT TO COLUMN, DOWN TO SERVICE RADS ON THE NORTH SIDE. PROVIDE TRIM TO SUIT, RUN PIPING INSIDE TRIM.

9 20e HWS/HWR FROM BELOW. REFER TO IN-FLOOR RADIATOR DETAIL.

10 20e HWR DOWN. RE-USE EXISTING FLOOR OPENING.

11 20e HWS FROM BELOW. RE-USE EXISTING FLOOR OPENING.

12 20e HWS/HWR INSIDE PARTITION WALL, DOWN TO SERVICE RADS.

13 20e HWS/HWR UP THROUGH FLOOR TO SERVE RADIATOR AT LEVEL ABOVE. PROVIDE NEW FLOOR OPENING, SCAN FLOOR PRIOR TO CORING AND COORDINATE OPENING WITH RADIATOR LOCATION. PIPING PENETRATES THROUGH FLOOR INTO THE RADIATOR TROUGH.

14 FOR HVAC PIPING, PLUMBING PIPING AND HVAC DUCTING WITHIN RISER SHAFT, REFER TO PART PLAN C ON DRAWING M53-01.

15 25e CHWS/CHWR FROM BELOW.

16 15e HWS/R THROUGH WALL TO SERVE RADIATORS IN ADJACENT ROOM.

17 PROVIDE CBV ON ALL HWR AND CHWR BRANCHES UPSTREAM OF SHUT-OFF VALVE.

18 CV LOCATED IN CEILING SPACE AT LEVEL BELOW.

19 LEAVE THIS SECTION BLANK. PROVIDE TRIM ONLY TO COVER THE PIPING.

NOTES:

1. PROVIDE RADIATORS TO MEET THE CAPACITY REQUIREMENTS NOTED ON THE DRAWING AND TO COMPLY WITH DIMENSIONS AND TYPE ACCORDING TO THE SCHEDULE.

2. RADIATORS TO BE CV ON ALL ACCESSORIES AND TRIMS NECESSARY TO MAINTAIN CONTINUOUS APPEARANCE ALONG EXTERIOR WALLS.

3. INSTALL HWS/HWR PIPING THROUGH EXISTING FLOOR OPENINGS TO SERVE RADIATORS ON LEVEL ABOVE AS NOTED. PROVIDE SAME END OR OPPOSITE END CONNECTIONS AS NECESSARY TO SUIT INSTALLATION AS SHOWN ON THE DRAWING.

4. PROVIDE CONTROL VALVES FOR RADIATORS IN EACH ZONE. REFER TO RADIATOR PIPING DETAILS FOR CONTROL VALVES LOCATION AND PIPING ARRANGEMENTS.

GENERAL NOTES:

1. DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL FLOOR PLANS AND SPECIFICATIONS.
2. ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY ALL LOCATIONS ON SITE.
3. CONTRACTOR TO COORDINATE INSTALLATION WITH ALL OTHER TRADES INVOLVED ON SITE.
4. ENSURE NOT TO DISTURB SERVICES COVERING AREAS NOT INCLUDED IN THE SCOPE. ALL WORK MUST BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
5. CONTRACTOR SHALL VISIT SITE TO EXAMINE EXISTING CONDITIONS.
6. CONTRACTOR TO PROPOSE SOLUTIONS FOR REVIEW TO THE CONSULTANT IF ANY INTERFERENCES OCCUR DUE TO SITE CONDITIONS.
7. ALL MATERIAL USED IN THE CEILING SPACE (RETURN AIR PLENUM) SHALL MEET AND EXCEED THE N.B.C. REQUIREMENTS FLAME AND SMOKE SPREAD/DEVELOPMENT RATINGS.
8. CONTRACTOR TO PROVIDE CONNECTION TO RELOCATED EXISTING EQUIPMENT AND ADDED EQUIPMENT DIRECTLY TO BUILDING HVAC SYSTEM AND UPDATE THE BMS ARCHITECTURE AS REQUIRED.
9. CONTRACTOR TO REMOVE ALL MECHANICAL EQUIPMENT AND INSTALL NEW ONES; SALVAGE AND REINSTALL ONLY WHEN SPECIFICALLY INDICATED.
10. MECHANICAL CONTRACTOR TO X-RAY SCAN SLAB PRIOR TO CORING.
11. SUPPLY AND INSTALL ALL NECESSARY EXPANSION COMPENSATORS, ANCHORS AND ALIGN GUIDES ON ALL HYDRONIC PIPING.
12. ALL THERMOSTATS IN PUBLIC AREAS TO BE EITHER BLANK PLATE-TYPE SENSORS OR PROVIDED WITH PROTECTIVE GUARDS.