

KEY PLAN

APEGA  
PERMIT TO  
PRACTICE  
P 3979

DO NOT SCALE DRAWINGS

Revision/	Description/Description	Date/Date
0	ISSUED FOR TENDER	2017.08.16

Client/client  
**PUBLIC WORKS & GOVERNMENT SERVICES CANADA**

Project title/Titre du projet

**EDMONTON MAXIMUM SECURITY INSTITUTION**

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PUBLIC WORKS & GOVERNMENT SERVICES CANADA

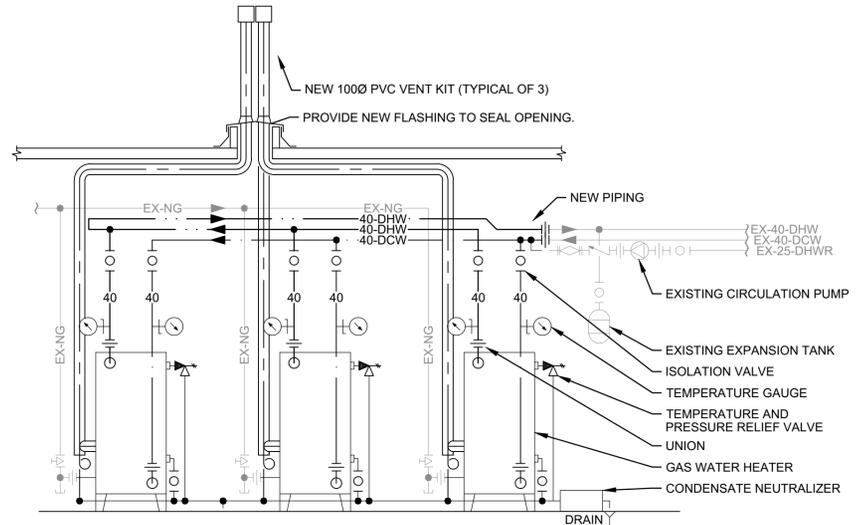
Drawing title/Titre du dessin

**SEGREGATION AND DISASSOCIATION BLOCK  
MECHANICAL ROOM  
NEW CONSTRUCTION**

Project No./No. du projet  
R.078013.001

Sheet/Feuille  
**M56**  
OF 103

Revision no./La Révision no.  
**0**



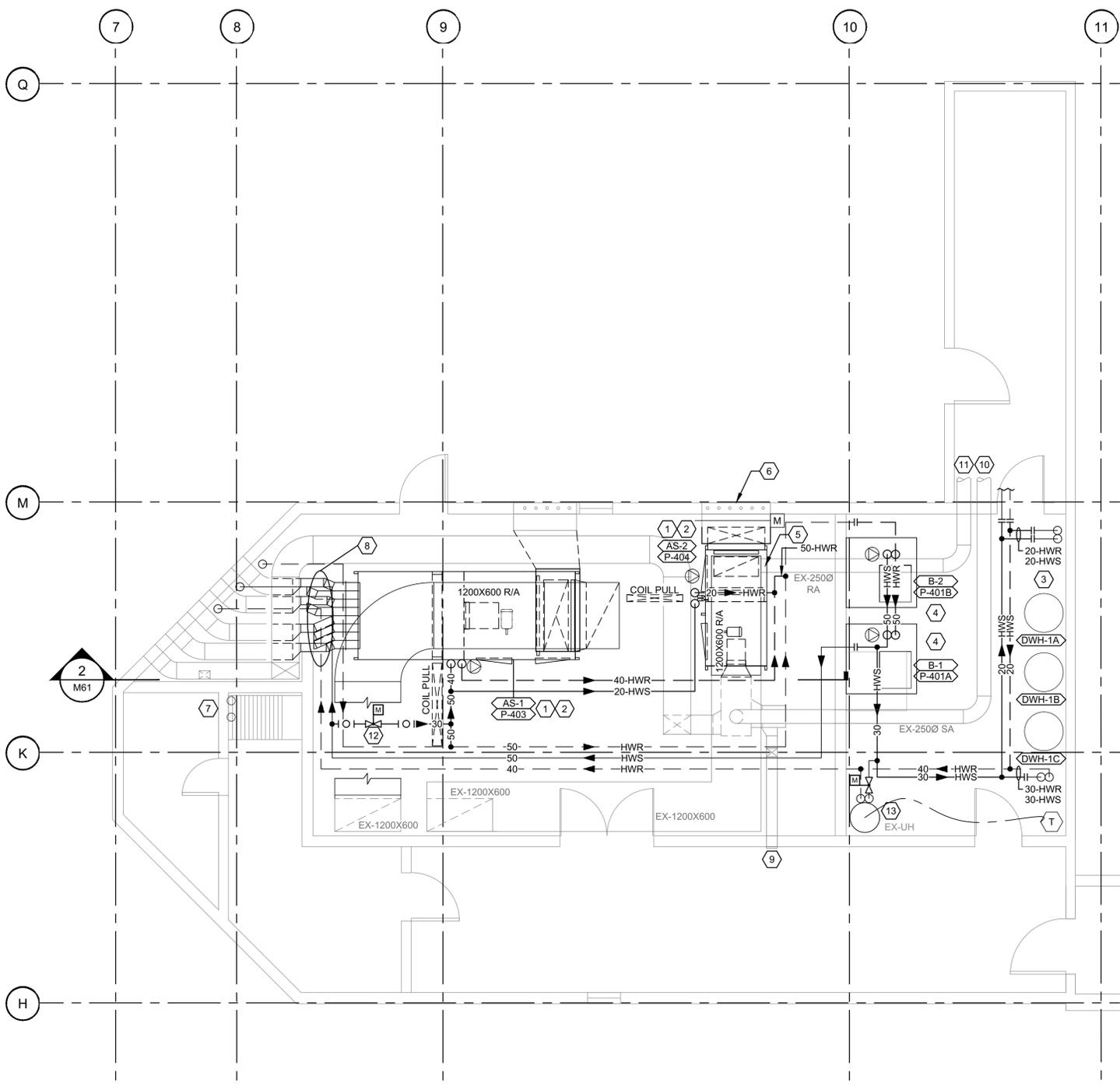
**2 SCHEMATIC**  
NEW - NATURAL GAS WATER HEATER

**SHEET KEY NOTES**

- EXTEND AND MODIFY EXISTING HOUSE KEEPING PAD AS REQUIRED. REFER TO STRUCTURAL FOR DETAILS.
- CONNECT AND TRANSITION NEW AIR HANDLER TO EXISTING RETURN, SUPPLY AND OUTDOOR AIR DUCTS AS SHOWN.
- REFER TO NEW NATURAL GAS WATER HEATER SCHEMATIC ON THIS SAME DWG. FOR NEW INSTALLATION.
- REFER TO DETAILS DRAWING FOR NEW BOILER INSTALLATION SCHEMATIC. MODIFY PADS TO SUIT NEW BOILER FOOT PRINT.
- RECONNECT EXISTING 2500 RA TO NEW AIR HANDLER RETURN MAIN.
- COORDINATE INSPECTION OF SECURITY BARS WITH BUILDING OPERATOR PRIOR TO DUCT CONNECTION.
- REFRIGERATION LINES FROM AC-300 BELOW TO CU-300 ON ROOF. REFER TO M37 FOR CU-300 LOCATION.
- TRANSITION FROM AS-1 MULTIZONE HEAD DUCTWORK TO EXISTING DUCTWORK. TYPICAL OF 8 EXISTING ZONES OF 3000 DUCTWORK. REFER TO DRAWING M61 FOR MORE DETAIL.
- REBALANCE SUPPLY DUCT TO 47 L/S
- REBALANCE SUPPLY DUCT TO 168 L/S
- REBALANCE RETURN DUCT TO 160 L/S
- PRESSURE INDEPENDENT BALANCING AND CONTROL VALVE. REFER TO DETAIL 6 ON M62 FOR BALANCING INFORMATION. VALVE LOCATED BELOW DUCT AND REMAIN ACCESSIBLE.
- REPLACE/ADD ELECTRONIC CONTROL VALVE AND NEW ISOLATION VALVES FOR EXISTING UNIT HEATER.

**GENERAL NOTES**

- EXISTING DRAWING INFORMATION IS NOT AS-BUILT. CONTRACTOR TO CONFIRM EXISTING CONDITIONS AND ROUTING PRIOR TO COMMENCING WORK.
- CONSTRUCTION ACTIVITIES SHALL BE COORDINATED AND STAGED WITH THE BUILDING OPERATOR TO MINIMIZE INTERRUPTION TO OPERATIONS.
- PATCH AND REPAIR OPENINGS TO MAINTAIN FIRE SEAL.
- CONTRACTOR SHALL ALSO INCLUDE PATCHING OF EXISTING FIRE PROOFING OF THE MECHANICAL ROOM AREA UPON COMPLETION OF CONSTRUCTION AND REPLACE ANY FIRE PROOFING COATINGS REMOVED DURING DEMOLITION AND CONSTRUCTION.



**1 PLAN**  
SG MECHANICAL ROOM